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1964

UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON : 1965

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[1] Includes 2 patents withdrawn.

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LIST OF PATENTEES

This list includes reissue patentees

Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Errata

Previous Editions

In the "Index of Patents," vol. 1962, page 783, second column, line 13, under the heading "Owens-Illinois Glass Co.: See—Continued", strike out "Marzocchi, Alfred and Rammel. 3,033,719." and insert the same on page 782, second column, between lines 2 and 3, from the bottom, under the heading "Owens-Corning Fiberglas Corp.: See—".

In the "Index of Patents," vol. 1963, page 44, under the heading "Babcock & Wilcox Co., The" strike out "Wootton, William R. 3,089,836" and insert the same under the heading "Babcock & Wilcox Ltd."

In the same index, under the heading "Babcock & Wilcox Ltd." strike out the following patents:

De Mart, Le Roy S. 3,099,076.
De Mart, Le Roy S. 3,099,434.
Godshalk, Russell L. 3,099,467.
Hage, William T. 3,103,001.
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and insert the same under the heading "Babcock & Wilcox Co., The".

In the "Index of Patents," vol. 1963, page 714, first column, line 58, under the heading "Reynolds Metals Co.: See—" for "Gahlinger, Clarence J. 3,013,193" read *Gahlinger, Clarence J. 3,103,193;* same first column, between lines 49 and 50, insert *Dale, Kenneth H. 3,115,419;* same column, after line 86, insert *Zouraeff, Peter, and Forrest. 3,115,249.*

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Abernathy, Miles H., and C. H. Dowen. Sliding guide. 3,160,448, 12–8–64, Cl. 308—3.6.

Abess, Irene M. Stuffing retainer. 3,125,779, 3–24–64, Cl. 17—11.

Abild, Robert N., to United Aircraft Corp. Pre-burner rocket control system. 3,128,601, 4–14–64, Cl. 60—35.6.

Abild, Robert N., to United Aircraft Corp. Drum servo control valve. 3,141,383, 7–21–64, Cl. 91—45.

Abild, Robert N., to United Aircraft Corp. Pressure fed propellant system for storable liquid rocket. 3,143,855, 8–11–64, Cl. 60—35.6.

Abild, Robert N., to United Aircraft Corp. Actuator mechanism. 3,161,014, 12–15–64, Cl. 60—7.

Abild, Robert N., C. O. Broders, and H. S. Crim, to United Aircraft Corp. Rocket motor control system. 3,162,009, 12–22–64, Cl. 60—35.6.

Abildgaard, William H., and R. E. Davis, to Plastomeric Products Corp. Dip-coating method and apparatus. 3,117,-341, 1–14–64, Cl. 18—4.

Ability Sheet Metal Products Co.: *See*—
Pribyl, Frank J. 3,150,802.

Abington Machine Co.: *See*—
Normandin, Harry W. 3,143,188.

Abitibi Power & Paper Co., Ltd.: *See*—
Bojanowski, Carl. 3,120,466.

Abler, Roger L., to Minnesota Mining and Mfg. Co. Modified urea-formaldehyde resin composition and coated products made therewith. 3,132,119, 5–5–64, Cl. 260—70.

Abodeely, Alex J. Windshield wiper. 3,138,816, 6–30–64, Cl. 15—250.41.

Abodeely, Edmund F., to Collins Radio Co. Telescopable guide pin. 3,116,959, 1–7–64, Cl. 339—66.

Abolins, Andrew, to Strick Trailers. Container coner fitting for bottom lifting. 3,128,117, 4–7–64, Cl. 294—67.

Abood, Leo G., to Colgate-Palmolive Co. N-(beta-halopropionyl)-piperidines as CNS depressant. 3,143,466, 8–4–64, Cl. 167—65.

Abplanalp, Robert H. Means for dispensing pressurized liquids. 3,118,612, 1–21–64, Cl. 239—579.

Abplanalp, Robert H. Valve operating button and method of and apparatus for using the same in charging aerosol dispensers. 3,122,180, 2–25–64, Cl. 141—3.

Abplanalp, Robert H. Means for dispensing heated aerosols. 3,144,174, 8–11–64, Cl. 222—146.

Abragam, Anatole, J. Combrisson, and I. Solomon, to Commissariat a l'Energie Atomique. Method and apparatus for measuring magnetic fields, particularly the earth magnetic field. 3,131,345, 4–28–64, Cl. 324—.5.

Abraham, Carlos S. Covered slide fastener. 3,143,778, 8–11–64, Cl. 24—205.1.

Abrahamson, Charles M., to All-Steel Equipment Inc. Office furniture. 3,125,387, 3–17–64, Cl. 312—195.

Abramitis, Walter W., and R. A. Reck, to Armour and Co. Method of controlling bacterial fire blight disease in living plants. 3,135,656, 6–2–64, Cl. 167—33.

Abramo, John G., E. C. Chapin, and A. Y. Garner, to Monsanto Co. Ethylenically unsaturated aromatic phosphorus halides. 3,143,569, 8–4–64, Cl. 260—543.

Abramo, John G., and E. C. Chapin, to Monsanto Co. Alkylene-aromatic-acetyl halides. 3,159,674, 12–1–64, Cl. 260—544.

Abramo, John G., A. Y. Garner, and E. C. Chapin, to Monsanto Co. Vinylidene aromatic phosphorus monomers. 3,161,667, 12–15–64, Cl. 260—461.

Abramovich, Adrian P., to Hamilton Mfg. Co. Drawer stop. 3,138,416, 6–23–64, Cl. 312—348.

Abramovitz, Stanley, to Industrial Tectonics, Inc., Fluid Film Bearing Division. Tilting pad thrust bearing. 3,142,519, 7–28–64, Cl. 308—160.

Abrams, Arnold A., to Wilmot Breeden Ltd. Vehicle door locking and window operating mechanism. 3,135,545, 6–2–64, Cl. 296—44.

Abrams, Edward F., and A. Silver, to The Garrett Corp. Hermetically sealed valve. 3,133,721, 5–19–64, Cl. 251—214.

Abrams, Eugene. Stapling device. 3,122,749, 3–3–64, Cl. 1—49.

Abrams, Herbert C. Drilling machine. 3,134,276, 5–26–64, Cl. 77—24.

Abrams, Irving M., to Diamond Alkali Co. Ion exchange resins and method of preparation thereof. 3,122,514, 2–25–64. Cl. 260—2.1.

Abrams, Irving M., to Diamond Alkali Co. Removal of alkyl benzene sulfonate from liquids. 3,123,553, 2–3–64, Cl. 210—30.
Abrams, Irwin L., D. J. Harra, and M. Rivera, to Varian Associates. High vacuum apparatus and method. 3,150,819, 9–29–64, Cl. 230—69.
Abrams, John R., J. Fine, and C. J. Lattarulo, to Interchemical Corp. Printing compositions and textiles coated therewith. 3,138,567, 6–23–64, Cl. 260—29.4.
Abrams, Josef S. Money saving device. 3,128,942, 4–14–64, Cl. 232—5.
Abrams, Virgil J., to Beckman Instruments, Inc. Method and apparatus for forming resistance elements. 3,157,081, 11–17–64, Cl. 83—13.
Abramson, Abraham, to Raylite Electric Corp. Molded plastic segmented trunk and branch holder means for simulated Christmas trees. 3,131,112, 4–28–64, Cl. 161—24.
Abramson, Abraham, to Raylite Electric Corp. Combination pin-type lamp and insulation piercing attachment socket construction. 3,148,009, 9–8–64, Cl. 339—99.
Abramson, Abraham, to Raylite Electric Corp. Knock-down simulated Christmas tree consrtuctions having adjustable and collapsible branches. 3,159,523, 12–1–64, Cl. 161—24.
Abramson, Harold A. Gentian violet adsorption complex. 3,146,162, 8–25–64, Cl. 167—55.
Abramson, Harvey J., to Sears, Roebuck and Co. Combination of elongated fabric and package for same. 3,144,933, 8–18–64, Cl. 206—49.
Abramson, Norman M., to International Business Machines Corp. Double error correcting system. 3,163,848, 12–29–64, Cl. 340—146.1.
Abramson, Paul: *See*—
Widmer, Albert X., and Abramson. 3,154,697.
Abramson, Paul, and H. C. Fox, to International Business Machines Corp. Magnetically actuated switching device. 3,162,738, 12–22–64, Cl. 200—87.
Abrasive Developments Ltd.: *See*—
Ashworth, Stewart I. 3,160,106.
Abrasive Products, Inc.: *See*—
Mellon, Joseph T. 3,121,298.
Abreo, Kent A. Musical instrument. 3,144,801, 8–18–64, Cl. 84—380.
Abromaitis, Andre T., to McGraw-Edison Co. Photosensitive bistable switching circuit. 3,128,412, 4–7–64, Cl. 315—159.
Absolon, Eric W., to Avery-Hardoll Ltd. Rotary liquid meter with temperature responsive means. 3,158,024, 11–24–64, Cl. 73—233.
Acacia, Rocco J. Spark arrester. 3,118,749, 1–21–64, Cl. 55—481.
Acara, Nancy A.: *See*—
Howell, Peter A., and Acara. 3,119,660.
Accary, Andre, J. Dubuisson, and J. Humbert, to Commissariat a l'Energie Atomique. Process for preparing shaped articles of uranium silicides. 3,142,533, 7–28–64, Cl. 23—14.5.
Acciarri, Jerry A., and D. R. Napier, to Continental Oil Co. Process for the purification of alkanols. 3,150,193, 9–22–64, Cl. 260—643.
Accordo Blinds Ltd.: *See*—
Knight, Alan E. 3,161,230.
Accountius, Oliver E.: *See*—
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Accumulateurs Fixes et de Traction (Societe Anonyme), Societe des: *See*—
Jeannin, Robert A. A. 3,162,549.
Accurate Screw Products, Inc.: *See*—
Nelson, Robert C. 3,141,229.
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Bonde, James R. 3,154,828.
Ace Electronics Associates, Inc.: *See*—
Dole, Fred E. 3,158,829.
Ace Fastener Corp.: *See*—
Fisher, Walter M. 3,144,026.
Ace Glass Incorporated: *See*—
De Woody, Charles M. 3,138,413.
Ace of Clubs Golf Cleaner, Inc.: *See*—
Smith, Lloyd L. 3,148,396.
Ace Tank and Heater Co.: *See*—
Russell, James A., and McClanahan. 3,118,430.
Aceti, Giovanni: *See*—
Sciretti, Benito, and Aceti. 3,158,694.
Achar Mfg. Co.: *See*—
Zacharias, Fred. 3,130,458.
Achenbach, Karl, K. Osterloh, and W. Rothe, to Deutsche Gold-und Silber-Scheideanstalt vormals Roessler and Dr. C. Otto & Co. G.m.b.H. Process for desulfurizing and deodorizing hydrocarbons. 3,160,580, 12–8–64, Cl. 208—266.
Acheson Industries, Inc.: *See*—
Crowl, James S. 3,156,420.
Janssens, Walter D. 3,154,506.
Seifarth, John H. 3,158,362.
Achorn, Frank P., R. D. Young, and G. C. Hicks, to Tennessee Valley Authority. Production of granular diammonium phosphates. 3,153,574, 10–20–64, Cl. 23—107.
Achterberg, Arthur C., and S. H. Paul, to Auto Specialties Mfg. Co. Lifting jack. 3,118,651, 1–21–64, Cl. 254—101.
Achuff Railway Supply Co.: *See*—
Giebel, Milton C., and Speck. 3,121,400.
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Ciocchetti, John E. 3,161,683.
Aciego, Alfonso B. Line holding device. 3,122,836, 3–3–64, Cl. 33—86.
Aciego, Alfonso B. Marking device and tape casing holder. 3,148,455, 9–16–64, Cl. 33—189.
Aciego, Alfonso B. Garage door handle. 3,159,867, 12–8–64, Cl. 16—126.
Acieries de Pompey, Societe des: *See*—
Mrowinski, Jerome. 3,117,680.
Acim Paper Corp.: *See*—
Heyman, Moses D. 3,131,114.
Acion Enterprises Inc.: *See*—
Ruffman, Sam H. 3,119,563.
Acker, Donald S., to E. I. du Pont de Nemours and Co. Process for the anionic polymerization of omega-lactams with poly(fluoromethylene) sulfide as activator. 3,138,575, 6–23–64, Cl. 260—78.
Acker, Donald S., and W. R. Hertler, to E. I. du Pont de Nemours and Co. Tetrasulfonyl derivatives of quinodimethanes and charge transfer complexes thereof with Lewis bases. 3,122,571, 2–25–64, Cl. 260—396.
Acker, Donald S., and D. C. Blomstrom, to E. I. du Pont de Nemours and Co. Charge-transfer compounds of 7,7,8,8-tetracyano-p-quinodimethan and c-hydrocarbyl substituted 7,7,8,8-tetracyano-p-quinodimethans with Lewis bases. 3,162,641, 12–22–64, Cl. 260—286.
Acker, Ellesworth G.: *See*—
Vanik, Milton C., Samchez, and Acker. 3,151,086.
Acker, Josef, and H. Classen, to Rokal G.m.b.H. Single handle control valve for cold and hot water or a mixture thereof. 3,144,048, 8–11–64, Cl. 137—637.4.
Acker, Norbert K., to Canteen International S.A. Traveling independent carrier merchandising machine. 3,137,533, 6–16–64, Cl. 312—35.
Acker, Ralph E. Sheet stock container. 3,137,404, 6–16–64, Cl. 217—56.
Acker, Richard C., P. J. Miller, and A. E. Pettyjohn, to The Weatherhead Co. Balanced pressure regulator valve. 3,153,424, 10–20–64, Cl. 137—505.41.
Acker, William L., and P. Boezi. Broaching apparatus. 3,117,494, 1–14–64, Cl. 90—95.
Ackeret, Jakob, and W. Wieland, to Cementfabrik Holderbank-Wildegg A.-G. Separating pulverous or granular material from a carrier medium. 3,135,684, 6–2–64, Cl. 209—144.
Ackerman, Arnold W.: *See*—
Stone, Richard W., Ackerman, and Nyquist. 3,160,315.
Ackerman, Charles B., to Motorola, Inc. Method of encapsulating a semiconductor device. 3,153,275, 10–20–64, Cl. 29—25.3.
Ackerman, Charles B., to Motorola, Inc. Semiconductor device mounting. 3,153,750, 10–20–64, Cl. 317—234.
Ackerman, Daniel W., and L. P. Zimmerman, to Universal Instruments Corp. Process line conveyor belt. 3,138,239, 6–23–64, Cl. 198—131.
Ackerman, David S.: *See*—
Harper, Willard J., Ackerman, and Feldman. 3,158,249.
Ackerman, George L. Juice extractor. 3,125,019, 3–17–64, Cl. 100—139.
Ackerman, Nathan. Hydropneumatic drive mechanism. 3,124,044, 3–10–64, Cl. 91—280.
Ackerman, Nathan. Fluid actuated linear reciprocating apparatus for forcing flowable material through a passageway. 3,132,376, 5–12–64, Cl. 18—12.
Ackermann, Friedrich W.: *See*—
Finke, Guenter B., and Ackermann. 3,141,760.
Ackermann, Hans: *See*—
Bossard, Werner, Ackermann, Seiler, and Riethmann. 3,119,807.
Ackermann, Hans, and H. Seiler, to J. R. Geigy, A.-G. Reactive dyestuffs containing one or more disulphimide group. 3,134,761, 5–26–64, Cl. 260—146.
Ackermann, Jakob: *See*—
Codignola, Franco, Clayton, Ackermann, and Vogel. 3,118,747.
Ackerson, Karl G.: *See*—
Leidberg, Kurt H., Peterson, and Ackerson. 3,118,569.
Ackerson, Richard E. Electric animal training device. 3,161,005, 12–15–64, Cl. 54—71.
Ackley, James W.: *See*—
Jepsen, Robert L., Lloyd, and Ackley. 3,150,817.
Ackley, John W.: *See*—
Oehler, William P., and Ackley. 3,158,324.
Ackley, John W., and C. K. Stralow, to Deere & Co. Highway sprayer. 3,160,347, 12–8–64, Cl. 239—159.
Acklin, Leo., to Sulzer Freres, S.A. Cooling system for a nuclear reactor. 3,153,618, 10–20–64, Cl. 176—20.
Acloque, Paul H.: *See*—
Bertrand, Pierre L., and Acloque. 3,149,945.
Acme Appliance Mfg. Co.: *See*—
Brydolf, Robert, and Tucker. 3,162,890.
Enos, Harold B., and Kellems. 3,132,371.
Kellems, Kenneth K. 3,159,866.
Acme Engineering and Mfg. Corp.: *See*—
Bohanon, Hoy P. 3,144,204.
Acme-Hamilton Mfg. Corp., The: *See*—
Kahn, Marvin M. 3,117,596.
Acme Highway Products Corp.: *See*—
Crone, Alfred F. 3,147,677.
Acme-McCrary Corp.: *See*—
Lewis, William H. 3,139,742.
Acme Plate & Mat Co.: *See*—
Betner, Thomas E. 3,159,303.

Acme Steel Co.: *See*—
Brown, Fred L., and Porcelli. 3,150,711.
Culpepper, John W., Stahnke, and Winkler. 3,162,394.
Fawcett, Paul W., and Allfree. 3,129,655.
Hall, Marchand B. 3,126,781.
Hall, Marchand B., Collins, Plattner, Finnegan, and Weller. 3,139,813.
Hall, Marchand B., and Hettinger. 3,120,171.
McConnell, Kennedy. 3,144,944.
Staron, Edward, and Sykes. 3,146,694.
Acme Visible Records, Inc.: *See*—
Barr, Hugh C. 3,163,294.
Fuller, James L., and Loyd. 3,124,398.
Fuller, James L., and Tomlinson. 3,124,084.
Loyd, Samuel A., Jr. 3,120,824.
Loyd, Samuel A., Jr. 3,123,934.
Aco Inoxidavel Fabril Guarulhos S/a: *See*—
Fracalanza, Ivo. 3,119,123.
Aconsky, Simon S., and J. R. Doyle, to United Aircraft Corp. Non-consumable arc-melting and arc-welding electrodes. 3,163,744, 12–29–64, Cl. 219—145.
Acosta, Ivan J.: *See*—
Carr, Edward W., Decraene, and Acosta. 3,122,160.
Acoustica Associates, Inc.: *See*—
Church, Donald R., and Junger. 3,139,603.
Rich, Stanley R. 3,141,140.
Acra-Plant, Inc.: *See*—
Williams, Donald E. 3,154,030.
Acro-Feed, Inc.: *See*—
Jones, Otis V., Jr. 3,147,653.
Acro Welder Mfg. Co.: *See*—
Wakeley, William M. 3,124,093.
Acromag, Inc.: *See*—
Patton, Henry W. 3,123,764.
Acrow (Engineers) Ltd.: *See*—
Reynolds, Reginald, and Stammers. 3,134,398.
Activator Inc.: *See*—
Golub, Samuel J., and Silbert. 3,117,866.
Acton, Daniel D.: *See*—
Foss, George J., and Acton. 3,143,234.
Roberts, Cecil P., and Acton. 3,134,211.
Acton, Daniel D., and A. W. Hart, to Anchor Hocking Glass Corp. Closure cap and method of making same. 3,155,-261, 11–3–64, Cl. 215—38.
Acton, Edward S., to General Electric Co. Non-contacting measuring apparatus. 3,141,057, 7–14–64, Cl. 88—14.
Acton, Hugh C. Wall wardrobe. 3,126,238, 3–24–64, Cl. 312—245.
Acton, John R., to Ericsson Telephones Ltd. Electrical connections to thin conductive layers. 3,157,473, 11–17–64, Cl. 29—183.5.
Acton Laboratories, Inc.: *See*—
Forrest, John W. 3,142,995.
King, James L. 3,128,638.
King, James L. 3,146,323.
Acushnet Process Co.: *See*—
Kudriavetz, Peter, Jr. 3,117,819.
Adachi, Jun, S. Fuita, A. Mitsutani, K. Kimura, and A. Naganuma, to Kurashiki Rayon Co., Ltd. Process of producing vinyl compounds. 3,117,990, 1–14–64, Cl. 260—498.
Adage, Inc.: *See*—
Lucas, Paul G., and Rigby. 3,135,874.
Young, Frink M. 3,146,343.
Adair Co.: *See*—
Adair, Robert L. 3,138,549.
Adair, Robert L., to Adair Co. Anode supporting assembly for cathodic protection. 3,138,549, 6–23–64, Cl. 204—197.
Adair, Robin, Jr. Pressure-fed paint application. 3,149,365, 9–22–64, Cl. 15—571.
Adair, Thomas W., III: *See*—
Hoyer, Wilmer A., Adams, and Adair. 3,146,351.
Adam, Folger: *See*—
Wolz, Francis T. 3,157,042.
Adam, Folger, J. W. Browning, H. F. Stapay, and N. Beck; said Stapay and said Beck assors. to F. Adam. Lock controls and the like. 3,142,166, 7–28–64, Cl. 70—279.
Adam, Hans, H. Orth, and E. Clauss, to G. M. Pfaff AG. Work blank support, particularly sewing material support for automatic device. 3,156,203, 11–10–64, Cl. 112—2.
Adam, Howard W.: *See*—
McClellan, Robert S., and Adam. 3,148,864.
Adam, Robert G. Hydraulically operated dehorner. 3,152,397, 10–13–64, Cl. 30—228.
Adamec, Joseph, and R. J. Bradley, to Security Hardware Mfg. Co., Inc. Door chain lock. 3,161,035, 12–15–64, Cl. 70—93.
Adamek, Stephen, and E. A. Dudley, to Dunlop Rubber Co. Ltd. Synthetic rubber compositions. 3,136,739, 6–9–64, Cl. 260—45.5.
Adami, Enrico, C. Cardani, and B. Cavalleri, to Istituto de Angeli S.p.a. Esters of farnesyl acetic acid. 3,154,570, 10–27–64, Cl. 260—410.5.
Adamo, Edmund B.: *See*—
Stanislao, Joseph, and Adamo. 3,154,260.
Adamont Laboratories (Proprietary) Ltd.: *See*—
Custers, Jan F. H., Senior, Dyer, and Wedepohl. 3,124,-422.
Adams, Albert, to Alajex Etablissement. Packages intended to contain a plurality of articles. 3,119,517, 1–28–64, Cl. 221—87.
Adams, Andrew O., to Leach Corp. Compact relay with angular pole pieces. 3,138,677, 6–23–64, Cl. 200—87.
Adams, Bobby F.: *See*—
Wotiz, John H., and Adams. 3,153,072.
Wotiz, John H., Parsons, and Adams. 3,135,655.
Adams, Campbell V., to Vulcan Iron Works Inc. Pulling adapter. 3,149,851, 9–22–64, Cl. 279—4.
Adams, Cecil E., to American Brake Shoe Co. Electrohydraulic flow control apparatus. 3,159,178, 12–1–64, Cl. 137—501.
Adams, Cecil E., and W. E. Renick, to American Brake Shoe Co. Hydraulic pressure compensator. 3,139,105, 6–30–64, Cl. 137—102.
Adams, Cecil S., W. A. Dean, and G. W. Martin, to Adams, Inc. Control means for textile machines. 3,124,843, 3–17–64, Cl. 19—.25.
Adams, Charles A., to Adams Engineering Co. Impact crusher. 3,150,838, 9–29–64, Cl. 241—275.
Adams, Charles J., to General Electric Co. Rod-in-tube actuated temperature sensing device. 3,117,205, 1–7–64, Cl. 200—137.
Adams, Charles R., and T. J. Jennings, to Shell Oil Co. Preparation of olefinic compounds. 3,161,670, 12–15–64, Cl. 260—465.3.
Adams, Clarence R., to The Boeing Co. Hydrostatic bearing. 3,119,639, 1–28–64, Cl. 308—9.
Adams, Clark E.: *See*—
Eldib, Ibrahim A., Bieber, Adams, Hamner, and Kimberlin. 3,153,623.
Adams, Clifford B.: *See*—
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Adams, Clifford B., to National Rejectors, Inc. Money-handling devices. 3,132,654, 5–12–64, Cl. 133—1.
Adams, Clifford B., to National Rejectors, Inc. Money-actuated devices. 3,145,820, 8–25–64, Cl. 194—4.
Adams, Dennis A. W.: *See*—
Sarkar, Asim K., and Adams. 3,133,080.
Adams, Dennis A. W., and A. K. Sarkar, to Hickson & Welch Ltd. Optical whitening agents of the stilbyl triazole type. 3,119,820, 1–28–64, Cl. 260—240.
Adams, Dolor N., and J. L. Sorkin, to Harris-Intertype Corp. Lithographic plate including a hydrophilic barrier layer comprising a silane, an acrylic compound and an organic metal ester. 3,163,534, 12–29–64, Cl. 96—75.
Adams, Dustin S., to E. I. du Pont de Nemours and Co. Process of preparing substantially oriented filaments having circumferential ridges on the surface. 3,117,173, 1–7–64, Cl. 264—210.
Adams, Dustin S., to E. I. du Pont de Nemours and Co. Process for producing oriented synthetic linear polyester fibers and films having a sheath-core structure. 3,155,754, 11–3–64, Cl. 264—78.
Adams, Edward N., to International Business Machines Corp. Magneto-optical memory and display device. 3,142,720, 7–28–64, Cl. 88—16.
Adams Eldon W. Envelope opener. 3,118,228, 1–21–64, Cl. 30—294.
Adams Electronics Inc.: *See*—
Adams, Stanley A., and Hubert. 3,155,895.
Adams, Elmer C. Oil well pump. 3,139,039, 6–30–64, Cl. 103—179.
Adams, Elmer L., to Owens-Illinois Glass Co. Apparatus and method for molding cellular articles. 3,122,787, 3–3–64, Cl. 18—5.
Adams, Elmer L., to Owens-Illinois Glass Co. Apparatus for producing extruded tubing of thermoplastic material. 3,124,839, 3–17–64, Cl. 18—14.
Adams, Elmer L., to Owens-Illinois Glass Co. Elastic melt extruder and method of operation. 3,137,034, 6–16–64, Cl. 18—12.
Adams, Elmer L., to Owens-Illinois Glass Co. Elastic melt extrusion method and apparatus. 3,153,686, 10–20–64, Cl. 264—176.
Adams Engineering Co.: *See*—
Adams, Charles A. 3,150,838.
Adams, Ernest C., Jr., to Miles Laboratories, Inc. Glucosamine acetylsalicylate and process for preparing same. 3,118,875, 1–21–64, Cl. 260—211.
Adams, Francis A. Door stop. 3,143,369, 8–4–64, Cl. 292—288.
Adams, Francis V., to International Business Machines Corp. Data transmission checking means. 3,124,783, 3–10–64, Cl. 340—146.1.
Adams, Frederic H., and D. P. Wright, Jr., to American Cyanamid Co. Method of protecting plants and organic matter with substituted triazenes. 3,162,571, 12–22–64, Cl. 167—30.
Adams, Frederick J., to Hydrosteer Ltd. Vehicular steering mechanism. 3,153,947, 10–27–64, Cl. 74—498.
Adams, Frederick J., to Hydrosteer Ltd. Vehicular steering mechanism. 3,153,948, 10–27–64, Cl. 74—499.
Adams, George C., to Rollform, Inc. Ceiling grid system. 3,119,475, 1–28–64, Cl. 189—82.
Adams, George J. Stapling mechanism. 3,125,761, 3–24–64, Cl. 1—49.
Adams, George L., and C. T. Govin, to The Salem Tool Co. Trench drill. 3,118,509, 1–21–64, Cl. 173—160.
Adams, George L., and C. T. Govin, to The Salem Tool Co. Feed for deep mine auger machine. 3,131,916, 5–5–64, Cl. 262—26.
Adams, George L., and C. T. Govin, to The Salem Tool Co. Selectively prepositioned bit holder. 3,158,403, 11–24–64, Cl. 299—90.
Adams, George T.: *See*—
Huber, Charles F. 3,134,331.

Adams, Gerald J., to Adams-Russell Co., Inc. Omnidirectional vertically polarized antenna. 3,153,239, 10–13–64, Cl. 343—791.
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Adams, James E., to The Bishop and Babcock Corp. Capacitor clip. 3,163,391, 12–29–64, Cl. 248—223.
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Adams, Renard P. Heat exchanger method and apparatus. 3,152,753, 10–13–64, Cl. 230—208.
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Alamprese, Leo, to Honeywell Inc. Rolling gate valve. 3,154,104, 10–27–64, Cl. 137—625.46.

Alarie, Robert W. Filter apparatus and connecting means therefor. 3,160,588, 12–8–64, Cl. 210—457.

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Alban, Clarence F., to W. M. Chace Co. Heat treating apparatus. 3,154,621, 10–27–64, Cl. 266—5.

Albani, Peter, to United Aircraft Corp. Afterburner seal. 3,121,995, 2–25–64, Cl. 60—39.32.

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Albert, Frank P., L. W. Bieker, and A. A. Bowcutt, to Union Tank Car Co. Method of making cylinders. 3,159,911, 12–8–64, Cl. 29—471.1.

Albert, Harry E., to Pennsalt Chemicals Corp. Inhibiting popcorn polymer formation. 3,148,225, 9–8–64, Cl. 260—669.

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Albert, Richard J., to E. I. du Pont de Nemours and Co. Extrusion die. 3,122,790, 3–3–64, Cl. 18—14.

Albert, Robert J. Method of pumping concrete containing porous aggregates. 3,133,729, 5–19–64, Cl. 259—147.

Albert, Werner, to Kronpring Aktiengesellschaft. Vehicle wheel. 3,117,369, 1–14–64, Cl. 29—159.1.

Albert, William. Roll construction. 3,144,905, 8–18–64, Cl. 165—89.

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Alberts, Sydney S. Body support. 3,116,736, 1–7–64, Cl. 128—524.

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Albertson, Noel F., to Sterling Drug Inc. 1-[(3-, 2-, and 1-indolyl)-lower-alkyl]-tertiary amines and intermediates therefor. 3,155,668, 11–3–64, Cl. 260—293.

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Albertson, Victor N. and R. V., to Minnesota Automotive, Inc. Pump. 3,151,565, 10–6–64, Cl. 103—102.

Albertson, Victor N. and R. V., to Minnesota Automotive, Inc. Pressure testing device. 3,162,048, 12–22–64, Cl. 73—420.

Albertson, Walter H. and L. J., P. L. Paulsen, and H. Richter, to Paramount Textile Machinery Co. Adjustable hosiery boarding form assembly. 3,141,587, 7–21–64, Cl. 223—75.

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Albin, Jerry R., and G. A. Gallagher, to E. I. du Pont de Nemours and Co. Elastomeric copolymers of vinylidene fluoride and perfluoroalkyl perfluorovinyl ethers. 3,136,745, 6–9–64, Cl. 260—87.7.

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Albinson, Don, to Miller Herman, Inc. Base for seating. 3,120,977, 2–11–64, Cl. 297—160.

Albinson, Harold H., G. P. Hanley, K. L. Hulsing, H. G. Humphries, and J. J. May, to General Motors Corp. Two-cycle internal combustion engine. 3,161,182, 12–15–64, Cl. 123—32.

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Albrecht, Alexander J., to Brunswick Corp. Rotatable ring for elevating bowling pins. 3,122,366, 2–25–64, Cl. 273—43.

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Albrecht, Ernst: *See*—
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Albrecht, Friedrich W., to Olympia Werke A.G. Matrix switching arrangement. 3,129,411, 4–14–64, Cl. 340—174.

Albrecht, Hans J., to The Fellows Gear Shaper Co. Indexing mechanism for finishing machines for gears and the like. 3,122,968, 3–3–64, Cl. 90—1.

Albrecht, Hans J., to Scovill Mfg. Co. Control means for steam irons. 3,136,080, 6–9–64, Cl. 38—77.

Albrecht, James J., to International Minerals & Chemical Corp. Condiment composition and method of production. 3,118,771, 1–21–64, Cl. 99—140.

Albrecht, John C., to Bell Telephone Laboratories, Inc. Add-on circuit for step-by-step systems. 3,144,517, 8–11–64, Cl. 179—18.

Albrecht, Leonard N. Shopping cart stacker. 3,160,292, 12–8–64, Cl. 214—6.

Albrecht, Otto, deceased, by V. Albrecht, administratrix, A. Berger, and W. Hofmann, to Ciba Ltd. Process for producing an antistatic finish on synthetic fibers. 3,154,429, 10–27–64, Cl. 117—139.5.

Albrecht, Valerie: *See*—
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Albrecht, Wolfram, and W. Wagner, to Jos. Schneider & Co. Four member telephoto objective. 3,119,893, 1–28–64, Cl. 88—57.

Albrecht, Wolfram, and W. Wagner, to Jos. Schneider & Co. Telephoto objective. 3,162,714, 12–22–64, Cl. 88—57.

Albright, James C.: *See*—
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Albright, Jay D., and L. Goldman, to American Cyanamid Co. Ring e substituted yohimb-17-enes. 3,121,721, 2–18–64, Cl. 260—287.

Albright, John R. Motor-driven rotary toothbrush with reversing gear. 3,139,639, 7–7–64, Cl. 15—23.

Albright, John W.: *See*—
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Albright, Lyle F., and R. Lee, to Purdue Research Foundation. Gamma radiation nitration of alkanes. 3,120,478, 2–4–64, Cl. 204—162.

Albright, Roy H., to I-T-E Circuit Breaker Co. Sealed arc chutes for an auxiliary interrupting blade of a circuit interrupter. 3,136,874, 6–9–64, Cl. 200—144.

Albright & Wilson (Mfg.) Ltd.: *See*—
Wells, Frederick H., and Lyde. 3,157,586.
Wells, Frederick H., and Lyde. 3,161,575.

Albrycht, Harry J. Receptacle support. 3,140,557, 7–14–64, Cl. 45—28.

Albsmeier, Hans, and E. Freystedt, to Siemens & Halske Aktiengesellschaft. Electromechanical filter. 3,146,415, 8–25–64, Cl. 333—72.

Albsmeier, Hans, and W. Poschenrieder, to Siemens & Halske Aktiengesellschaft. Electromechanical wave filter having resonant bars coupled to each other by torsion wires which also support bars. 3,142,027, 7–21–64, Cl. 333—72.

Alburger, James R. Composition of matter, process and apparatus for visually indicating and storing electrical data. 3,123,806, 3–3–64, Cl. 340—173.

Alburn, Harvey E.: *See*—
Grant, Norman H., and Alburn. 3,144,445.
Grant, Norman H., and Alburn. 3,152,050.

Alcamo, John H. Surgical suture. 3,123,077, 3–3–64, Cl. 128—335.5.

Alcaro, Francis A., to Santa Fe Instruments Inc. Flexible coupling. 3,150,506, 9–29–64, Cl. 64—15.

Alco Valve Co.: *See*—
Dube, John E., and Kincaid. 3,159,774.

Alcott, David W., and R. N. Seck. Method and apparatus for manufacturing pressurized lamps. 3,150,952, 9–29–64, Cl. 65—105.

Alcott, Earl C.: *See*—
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Alcott, Rollin A., and J. E. Lundberg, to Minneapolis-Honeywell Regulator Co. Dual bimetallic control thermostat. 3,138,685, 6–23–64, Cl. 200—122.

Ald, Inc.: *See*—
Conley, Charles P. 3,123,065.

Alday, John R.: *See*—
Seeley, Elwin W., and Alday. 3,153,768.

Alden, Charles L., to Minnesota Mining and Mfg. Co. Container and closure member. 3,154,193, 10–27–64, Cl. 206—52.

Alden, William A.: *See*—
Grandstaff, Otho D., and Alden. 3,124,786.
Grandstaff, Otho D., Alden, and Fischer. 3,117,289.

Alder, James E.: *See*—
Beall, Glenn L., and Alder. 3,153,414.

Aldershof, Kent L., to International Business Machines Corp. Programmed instruction format and book. 3,145,481, 8–25–64, Cl. 35—8.

Alderson, Edgar D., to General Electric Co. Diverter valve means. 3,116,756, 1–7–64, Cl. 137—610.

Alderson, John M. Ram jet engine. 3,143,852, 8–11–64, Cl. 60—35.6.

Alderson, William S., to Melpar, Inc. Moving target radar systems. 3,127,605, 3–31–64, Cl. 343—7.7.

Aldinger, Paul A., to Honeywell Inc. Meter. 3,158,000, 11–24–64, Cl. 60—54.5.

Aldrich, Alvan C. Ceiling board jack. 3,143,219, 8–4–64, Cl. 214—1.

Aldrich, Alvin M., to W. H. Nichols Co. Reversible gear pump. 3,118,387, 1–21–64, Cl. 103—117.

Aldrich, Charles K.: *See*—
Shepard, Spencer W., and Aldrich. 3,147,204.

Aldrich, Lewis R., and J. L. Howard, said L. R. Aldrich assor. to said J. L. Howard. Safety cradle bed for vehicle and general use. 3,159,850, 12–8–64, Cl. 5—94.

Aldrich, Paul E., to E. I. du Pont de Nemours and Co. Trifluoromethyl vinyl ether and its polymers. 3,162,622, 12–22–64, Cl. 260—87.5.

Aldrich Pump Co., The: *See*—
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Aldrich, Robert H., to Hammond Machinery Builders, Inc. Dust collector and support for the bag thereof. 3,120,432, 2–4–64, Cl. 55—315.

Aldrich, Thomas B., to F. W. Earnest, Jr. Vibratory striking tool. 3,155,329, 11–3–64, Cl. 241—168.

Aldridge, Clyde L.: *See*—
Cull, Neville L., and Aldridge. 3,118,948.
Cull, Neville L., and Aldridge. 3,118,949.
Hawes, Truman P., Aldridge, and Etherington. 3,146,-277.
Zachry, James B., and Aldridge. 3,120,558.
Zachry, James B., and Aldridge. 3,161,672.

Aldridge, Clyde L., and E. A. Hunter, to Esso Research and Engineering Co. Preparation of higher boron compounds and alcohol derivatives thereof. 3,117,153, 1–7–64, Cl. 260—462.

Aldridge, Clyde L., and N. L. Cull, to Esso Research and Engineering Co. Lactone synthesis. 3,147,281, 9–1–64, Cl. 260—343.6.

Aldridge, Peter J., to The Magnavox Electronics Co. Ltd. Sound recording and reproducing apparatus. 3,130,889, 4–28–64, Cl. 226—178.

Aldridge, Peter J. Sound reproducing and recording apparatus. 3,130,935, 4–28–64, Cl. 242—55.12.

Aldridge, Peter J., to The Magnavox Electronics Co. Ltd. Sound recording and reproducing apparatus. 3,137,430, 6–16–64, Cl. 226—180.

Aldrin, Henry W.: *See*—
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Aldrin, Henry W., to Aktiebolaget Bofors. Hoist for rounds of ammunition. 3,139,798, 7–7–64, Cl. 89—46.

Aldropp, Art. Hydraulic jet marine engine. 3,121,994, 2–25–64, Cl. 60—35.54.

Alenius, Nils R. Continuous making of plywood. 3,133,850, 5–19–64, Cl. 156—558.

Aler, Mary E., C. J. Butke, and H. R. Stopper, to The Drackett Co. Silver polish. 3,117,012, 1–7–64, Cl. 106—8.

Alex Mfg. Corp.: *See*—
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Feibush, Alexander. 3,134,391.

Alexander, Adolph P., to International Harvester Co. Ductile iron casting. 3,125,442, 3–17–64, Cl. 75—123.

Alexander, Arthur, and H. W. Clements, to Parkinson Cowan Ltd. Register for gas meters. 3,140,607, 7–14–64, Cl. 73—272.

Alexander, Charles F., Jr.: *See*—
Kiekhaefer, Elmer C., Alexander, and Boda. 3,136,286.
Kiekhaefer, Elmer C., Alexander, and North. 3,136,281.

Alexander, Charles F., Jr., to Kiekhaefer Corp. Steering arrangement for inboard-outboard drive. 3,136,282, 6–9–64, Cl. 115—35.

Alexander, Charles H., to United States Rubber Co. N-allyloxymethyl maleimide, and homopolymers and copolymers thereof. 3,151,182, 9–29–64, Cl. 260—45.4.

Alexander, Claude C.: *See*—
Knapp, Ralph P., Alexander, and Andersen. 3,158,278.

Alexander, Clifford R.: *See*—
Sherman, Kenneth S., and Alexander. 3,160,105.

Alexander, David C.: *See*—
Dunlap, Charles K., Jr., Alexander, Hart, and Hall. 3,159,515.

Alexander, David O., 25% to S. B. Wiczer. Underwater container assembly. 3,126,559, 3–31–64, Cl. 9—10.

Alexander, Donald L. Sawtooth wave form generator employing monostable circuit to control reset. 3,124,706, 3–10–64, Cl. 307—88.5.

Alexander, Doyle L.: *See*—
Scott, John N., Jr., and Alexander. 3,162,707.

Alexander, Earl L., Jr., to E. I. du Pont de Nemours and Co. Stretching and heat crystallization of poly(metaphenylene isophthalamide) fibers. 3,133,138, 5–12–64, Cl. 264—290.

Alexander, Focsaneanu. Luminous high tension indicator. 3,124,712, 3–10–64, Cl. 313—202.

Alexander, Ford I., deceased; R. L. Alexander, J. R. Ethridge, and J. B. Alexander, executors. Method and apparatus for making explosives in the place of use. 3,127,835, 4–7–64, Cl. 102—23.
Alexander, Ford I. Method and apparatus for vibrating well pipe. 3,132,707, 5–12–64, Cl. 175—298.
Alexander, Ford I., and I. C. Bechtold; said Bechtold assor. to said Alexander. Apparatus for sensing well pipe movement. 3,153,339, 10–20–64, Cl. 73—151.
Alexander, Granison T., Jr., to Gem Oil Tool Co., Inc. Velocity joint and container. 3,149,671, 9–22–64, Cl. 166—21.
Alexander, Guy B., and P. C. Yates, to E. I. du Pont de Nemours, and Co. Process for producing a composite metal oxide particle in a colloidal aquasol. 3,129,093, 4–14–64, Cl. 75—.5.
Alexander, Guy B., W. H. Pasfield, and P. C. Yates, to E. I. du Pont de Nemours and Co. Process of incorporating a refractory metal oxide in a metal and product resulting therefrom. 3,150,443, 9–29–64, Cl. 29—182.5.
Alexander, Guy B. and P. C. Yates, to E. I. du Pont de Nemours and Co. Metal composition. 3,152,389, 10–13–64, Cl. 29—182.5.
Alexander, Harold N. Method and apparatus for forming full color viewing photographic image. 3,142,563, 7–28–64, Cl. 96—2.
Alexander, Irene: *See*—
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Alexander, Irving H., to The Bunker-Ramo Corp. Control device. 3,158,317, 11–24–64, Cl. 235—145.
Alexander, James B.: *See*—
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Alexander, James W.: *See*—
Crandall, A Ralph, and Alexander. 3,119,146.
Alexander, James W., and C. L. Davis, to Phillips Petroleum Co. Agglomeration of fine rubber particles. 3,131,160, 4–28–64, Cl. 260—33.6.
Alexander, John D.: *See*—
Dew, John N., Alexander, and Martin. 3,153,448.
Martin, William L., Alexander, and Dew. 3,121,462.
Alexander, Lester F.: *See*—
Leclerc, John T., and Goehringer. 3,122,094.
Alexander, Paul, deceased (I. Alexander, executrix), to Continental Can Co., Inc. Floating roller seal. 3,158,507, 11–24–64, Cl. 118—49.
Alexander, Reginald A., and H. H. Olson, to Radio Corp. of America. Test pointer extender for circuit boards. 3,147,-054, 9–1–64, Cl. 339—17.
Alexander, Rexford G., Jr., to Burroughs Corp. Thin film magnetic storage. 3,154,765, 10–27–64, Cl. 340—174.
Alexander, Robert C. Apparatus for securing the free terminal end of a roll of rolled paper. 3,134,706, 5–26–64, Cl. 156—357.
Alexander, Robert C. Rolled paper and method of securing the free end thereof. 3,134,980, 5–26–64, Cl. 156—220.
Alexander, Robert W., to Simplex Wire and Cable Co. Method of forming a composite conductor. 3,154,846, 11–3–64, Cl. 29—470.5.
Alexander, Ross D.: *See*—
Cox, William E., and Alexander. 3,134,484.
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Heying, Theodore L., and Alexander. 3,117,161.
Ottmann, Gerhard F., Alexander, and Kober. 3,157,638.
Alexander, Roy P., and T. L. Heying, to Olin Mathieson Chemical Corp. Organoboron alcohols and method for their preparation. 3,158,655, 11–24–64, Cl. 260—606.5.
Alexander, Roy P., and T. L. Heying, to Olin Mathieson Chemical Corp. Organoboron alcohols and their preparation. 3,158,656, 11–24–64, Cl. 260—606.5.
Alexander, Ruth L.: *See*—
Alexander, Ford I. 3,127,835.
Alexander, Thomas E., and W. F. Nelson, to Koehring Co. Automatic fill-up and cementing devices for well pipes. 3,130,789, 4–28–64, Cl. 166—224.
Alexander, Warren A., to Jersey Production Research Co. Seismic section correction device. 3,143,055, 8–4–64, Cl. 95—73.
Alexander, Warren A., and W. J. Stark, to Jersey Production Research Co. Migrator for geophysical exploration. 3,127,585, 3–31–64, Cl. 340—15.5.
Alexander, Warren A., D. J. Robinson, and D. L. Lighthizer, to Jersey Production Research Co. Seismic system. 3,158,-433, 11–24–64, Cl. 346—110.
Alexander, William G., to General Dynamics Corp. Storage apparatus. 3,121,861, 2–18–64, Cl. 340—173.
Alexander, William I., to Mayday, Inc. Automatic vending machine. 3,143,198, 8–4–64, Cl. 194—15.
Alexanderer, Lester F.: *See*—
Le Clerc, John T., and Alexanderer. 3,117,435.
Alexanderson, Ernst F. W. Electric motor control system. 3,119,957, 1–28–64, Cl. 318—257.
Alexandersson, Harald V., to Telefonaktiebolaget L. M. Ericsson. Electrical contact means in wire springs. 3,133,177, 5–12–64, Cl. 200—166.
Alexandersson, Harald V., E. A. Ericsson, and S. E. E. Johannesson, to Ericsson, L M Telefonaktiebolaget. Main exchange for automatic connecting devices. 3,118,021, 1–14–64, Cl. 179—91.
Alexandersson, Harald V., K. G. Brunberg, and R. A. Dahlblom, to Telefonaktiebolaget L M Ericsson. Circuit arrangement for operation of a satellite exchange in an automatic telephone system. 3,140,354, 7–7–64, Cl. 179—18.
Alexandersson, Harald V., S. E. V. Johannesson, and J. P. Saviharju, to Telefonaktiebolaget L M Ericsson. Distribution frame. 3,156,783, 11–10–64, Cl. 179—98.
Alexandre, Albert M. C. Process for manufacturing crepe fabrics with multifilament textile yarns of synthetic origin. 3,157,982, 11–24–64, Cl. 57—157.
Alexandru, Kovendi: *See*—
Anton, Balogh, Alexandru, Dumitru, and Elena. 3,117,-995.
Alexeff, Alexander V.: *See*—
Snyder, Harvey, Alexeff, and Richards. 3,156,396.
Alexeff, Alexander V., and H. R. Richards, to Industrial Ovens, Inc. Web and strand treating apparatus. 3,124,429, 3–10–64, Cl. 34—48.
Alexeff, Alexander V., H. R. Richards, and M. Zobenica, to Industrial Ovens Inc. Means for continuously treating strip. 3,152,794, 10–13–64, Cl. 263—3.
Alf, Fritz, to Deutsche Edelstahlwerke Aktiengesellschaft and Allgemeine Elektricitats-Gesellschaft. Induction heating apparatus. 3,133,185, 5–12–64, Cl. 219—10.61.
Alfa Romeo S.p.A.: *See*—
Colucci, Ivo. 3,151,224.
Alfes, John A., to General Motors Corp. Wheel mounted stone ejector. 3,135,559, 6–2–64, Cl. 301—63.
Alfieri, Giuseppe, to Fabbrica Italiana Magneti Marelli S.p.A. Hydraulic transmission devices for elimination of deterioration of the seal gasket of hydraulic pump pistons. 3,120,-104, 2–4–64, Cl. 60—54.5.
Alfieri, Giuseppe, to Fabbrica Italiana Magneti Marelli S.p.A. Articulated parallelogram supporting device for supporting blades or similar parts in automotive vehicle wipers. 3,128,490, 4–14–64, Cl. 15—250.23.
Alfieri, Giuseppe, to Fabbrica Italiana Magneti Marelli S.p.A. Device for braking either rear wheel of a vehicle when taking a curve. 3,129,035, 4–14–64, Cl. 303—6.
Alfieri, Giuseppe, to Fabbrica Italiana Magneti Marelli S.p.A. Autifreeze apparatuses for compressed air systems, particularly used on vehicles. 3,129,267, 4–14–64, Cl. 261—99.
Alfieri, Giuseppe, to Fabbrica Italiana Magneti Marelli S.p.A. Compressors for compressed air systems particularly used on vehicles. 3,130,901, 4–28–64, Cl. 230—187.
Alfieri, Giuseppe, to Fabbrica Italiana Magneti Marelli S.p.A. Fluid pressure piston actuator. 3,139,762, 7–7–64, Cl. 74—110.
Alfieri, Giuseppe, to Fabbrica Italiana Magneti Marelli S.p.A. Servo actuable leveler for controlling pneumatic suspension systems for vehicles. 3,140,725, 7–14–64, Cl. 137—550.
Alfieri, Giuseppe, to Fabbrica Italiana Magneti Marelli S.p.A. Anti-backlash anti-friction bearing assembly. 3,147,049, 9–1–64, Cl. 308—174.
Alfieri, Giuseppe, to Fabbrica Italiana Magneti Marelli S.p.A. Leveling device for a pneumatic suspension. 3,157,413, 11–17–64, Cl. 280—124.
Alfieri, Giuseppe, and R. Moriondo, to Fabbrica Italiana Magneti Marelli S.p.A. Device for exhausting the air springs of vehicle pneumatic mechanical suspension systems to the outer atmosphere. 3,121,573, 2–18–64, Cl. 280—6.
Alfille, Lucien, and J. Ropers, to Commissariat a l'Energie Atomique. Nuclear fuel cartridge. 3,118,819, 1–21–64, Cl. 176—79.
Alfonso y Diaz, Gabriel. Folding bed and canopy support. 3,147,497, 9–8–64, Cl. 5—362.
Alford, Andrew: *See*—
Leach, Harold H. 3,118,119.
Russell, Lindsay. 3,145,352.
Alford, Andrew. Impedance matching filter. 3,132,313, 5–5–64, Cl. 333—32.
Alford, Andrew. High frequency measuring system including automatic oscillator amplitude control means. 3,162,-807, 12–22–64, Cl. 324—58.
Alford Cartons Division, Continental Paper Co.: *See*—
Ricca, Anton. 3,128,935.
Alford, Harvey E.: *See*—
Veatch, Franklin, Alford, and Croft. 3,129,086.
Alford, Harvey E., and F. Veatch, to The Standard Oil Co. Lightweight structural unit. Re. 25,564, 4–28–64, Cl. 161—168.
Alford, Harvey E., and F. Veatch, to The Standard Oil Co. Method of making silica insulating material. 3,133,821, 5–19–64, Cl. 106—40.
Alford, James C. Measuring and marking device. 3,145,475, 8–25–64, Cl. 33—41.
Alfred Electronics: *See*—
Kruse, Fred W., Jr. 3,160,808.
Kruse, Frederick W., Jr., and Britton. 3,145,351.
Kruse, Frederick W., Jr., and Wambsganss. 3,121,848.
Alfred, Marc. Control device for control and safety rods for nuclear reactors. 3,152,960, 10–13–64, Cl. 176—36.
Alfrey, Norval K.: *See*—
Bridger, Grover L., and Alfrey. 3,124,159.
Bridger, Grover L., and Alfrey. 3,125,411.
Alfrey, Norval K., and G. L. Bridger, to W. R. Grace & Co. Fertilizer manufacture. 3,125,435, 3–17–64, Cl. 71—64.
Alfrey, Turner, Jr.: *See*—
Schrenk, Walter J., Chisholm, and Alfrey. 3,131,910.
Schrenk, Walter J., Cleereman, and Alfrey. 3,127,152.
Schrenk, Walter J., Cleereman, and Alfrey. 3,130,959.
Algatt, George E., and W. G. Otto, to Western Electric Co., Inc. Lamp finishing bars. 3,117,776, 1–14–64, Cl. 269—254.
Algemene Kunstzijde Unie N.V.: *See*—
Beumkes, Teunis. 3,122,768.
Maaskant, Leendert. 3,137,033.
Noordenbos, Pieter K. 3,123,969.

Alger, John R. M., to General Electric Co. Washing machine fill control. 3,153,924, 10–27–64, Cl. 68—12.
Alhéritière, Louis, to Les Usines de Melle (Societe Anonyme). Process for producing acetic anhydride. 3,119,862, 1–28–64, Cl. 260—546.
Alicot, Marie-Josephe J., and R. F. M. Sureau, to Compagnie Francaise des Matieres Colorantes. Quaternized dyestuffs. 3,153,031, 10–13–64, Cl. 260—145.
Alim Association Inc.: *See*—
Schoell, Harry L. 3,117,544.
Alimanestiano, Constantin, to Smalltel, Inc. Portable layover unit. 3,118,187, 1–21–64, Cl. 20—2.
Alinari, Carlo. Indicating instrument for divers. 3,121,333, 2–18–64, Cl. 73—411.
Alinat, Jean A.: *See*—
Cousteau, Jacques Y., Gagnan, and Alinat. 3,131,406.
Ali-Oglu, Nesi, to Bird & Son, Inc. Carton assembling machine. 3,134,308, 5–26–64, Cl. 93—37.
Alkirk, Inc.: *See*—
Christopher, Albert J. 3,128,982.
Lawrence, James C. 3,141,510.
All Products Co.: *See*—
Dunlavy, John H., Jr. 3,129,427.
Allais, André: *See*—
Warnant, Julien, Jolly, Allais, and Girault. 3,156,713.
Allais, Andre, and P. Girault, to Roussel-UCLAF, S.A. 4-(3'-hydroxy-4'-carboxy-phenylamino) - 7 - chloroquinolines, and esters and salt thereof. 3,132,145, 5–5–64, Cl. 260—286.
Allais, Andre, and P. Girault, to Roussel-UCLAF, S.A. Analog of 10-methoxy deserpidine and its preparation. 3,132,146, 5–5–64, Cl. 260—287.
Allais, Andre, and P. Girault, to Roussel-UCLAF, SA. 4-[2'-(β-dimethylaminoethoxycarbonyl)-phenyl-amino]-7-chloroquinoline and its acid addition salts. 3,150,047, 9–22–64, Cl. 167—65.
Allais, Andre, and P. Girault, to Roussel-UCLAF, S.A. 4-[2'-(β-morpholylethoxycarbonyl)-phenylamino] - 7 - chloroquinoline. 3,151,026, 9–29–64, Cl. 167—65.
All American Engineering Co.: *See*—
Cotton, Robert B. 3,140,845.
Cotton, Robert B. 3,158,343.
Daniels, Charles J., Smith, and Harbin. 3,159,923.
Doolittle, Donald B. 3,140,761.
Doolittle, Donald B. 3,160,371.
Green, Howard S. 3,158,341.
Trifillis, William E. 3,139,249.
Allan, Earl E., to Westinghouse Air Brake Co. Conversion brake cylinder. 3,152,516, 10–13–64, Cl. 91—189.
Allan, Earl E., to Westinghouse Air Brake Co. Manually operable slack adjuster for vehicle brakes. 3,158,235, 11–24–64, Cl. 188—197.
Allan, George G., to E. I. du Pont de Nemours and Co. Oxidation process. 3,156,709, 11–10–64, Cl. 260—348.5.
Allan, John H., and G. W. Lee, to Pacific Resins & Chemicals, Inc. Method of reducing the water solubility of blood solids for adhesive use by steam treatment. 3,123,-593, 3–3–64, Cl. 260—112.
Allan, Michael B., to Dominion Engineering Works Ltd. Kaplan turbines. 3,138,362, 6–23–64, Cl. 253—31.
Allan, Stewart, to Union Carbide Corp. Thermochemical metal removal apparatus. 3,119,409, 1–28–64, Cl. 137—488.
Allan, William J., and W. W. Webb, to Union Carbide Corp. Process for production of long metallic whiskers using a polycrystalline copper substrate. 3,144,358, 8–11–64, Cl. 148—1.6.
Allander, Claes, to Aktiebolaget Svenska Flaktfabriken. Method for threading the leading end of a weblike material and a device for carrying out the method. 3,127,079, 3–31–64, Cl. 226—92.
Allander, Claes, to Svenska Flaktfabriken, Aktiebolaget. Air-conditioning arrangement for operating rooms. 3,150,584, 9–29–64, Cl. 98—33.
Allander, Claes, and J.-M. Eneroth, to Aktiebolaget Svenska Flaktfabriken. Web turning device. 3,127,080, 3–31–64, Cl. 226—97.
Allard, Adrien C., to Societe a Responsabilite Limitee: Allard & Fils. Cardboard tray for fruit. 3,118,591, 1–21–64, Cl. 229—34.
Allard, Eugene R.: *See*—
Eolkin, Dave, Allard, Anderson, and Lovasz. 3,147,173.
Allard, Ingrid J. C.: *See*—
Karlstrom, Karl A. S., Östberg, Allard, and Östberg. 3,138,366.
Allard, Marc, to Institut de Recherches de la Siderurgie Francaise. Exhaust for steel converter. 3,154,406, 10–27–64, Cl. 75—60.
Allard, Marc, and B. Trentini, to Institut de Recherches de la Siderurgie. Method and apparatus for measuring the output of a pulverulent material suspended in fluid. 3,127,770, 4–7–64, Cl. 73—194.
Allard, Pierre J. M. T. Shovelling and loading machine 3,127,038, 3–31–64, Cl. 214—90.
Allard, Pierre J.-M. T. Multiple use freight vehicle. 3,132,-600, 5–12–64, Cl. 105—262.
Allardt, Ernst W., E. M. Juhn, and E. Abbonizio, to The Babcock & Wilcox Co. Flexible welding electrodes. 3,153,-718, 10–20–64, Cl. 219—65.
Allbeson, Ernest N., to The Brightside Foundry & Engineering Co. Ltd. Apparatus for the mechanical handling of billets and the like. 3,130,830, 4–28–64, Cl. 198—219.
Alldis, Harold H. Registration punch. 3,152,505, 10–13–64, Cl. 83—468.
Allegany Instrument Co., Inc.: *See*—
Minke, Charles M. 3,144,776.
Allegemeine Elektricitats Gesellschaft Schiffbau: *See*—
Mitchell, Colin C. 3,125,057.
Allegheny Ludlum Steel Corp.: *See*—
Beattie, Clifford G., and Gumbert. 3,149,439.
Boyer, Charles D., and Miller. 3,150,015.
Burket, Robert E., and Stewart. 3,138,494.
Conner, Jesse R., Jr. 3,125,471.
Eckel, Robert D., and Schaefer. 3,121,779.
Graziano, Anthony F. 3,139,358.
Hilliard, Glenn E., and Mainwaring. 3,132,854.
Hunt, Joseph M. 3,155,461.
Laine, Edward A. 3,139,024.
Lula, Remus A., Ferree, and McCunn. 3,152,934.
Malagari, Frank A., Jr. 3,148,979.
McLay, Alexander, and Weremeychik. 3,162,069.
Murtland, James B., Jr. 3,140,545.
Perry, Paul E., Miller, and Piasecki. 3,138,492.
Reen, Orville W. 3,150,444.
Weremeychik, Eugene A., and Murtland. 3,121,354.
Werthman, John H. 3,138,981.
Allegretti, Albert J. Lawn trimmer and edger. 3,130,793, 4–28–64, Cl. 172—15.
Allegretti, John E., and J. L. Waldman, to Merck & Co., Inc. Semiconductor process. 3,125,533, 3–17–64, Cl. 252—62.3.
Allegrini, Renato: *See*—
Nobile, Luciano, Allegrini, and Poma. 3,132,051.
Alleman, Ronald D. Animation device. 3,144,726, 8–18–64, Cl. 40—81.
Allemann, Hugo, to Etablissement Allemann. Workpiece holder table arrangement. 3,139,177, 6–30–64, Cl. 198—210.
Allen, Abbott, to United States of America, Atomic Energy Commission. Reactor and apparatus for control thereof. 3,162,578, 12–22–64, Cl. 176—36.
Allen, Alaric, to A. C. Cossor Ltd. Secondary radar systems. 3,155,966, 11–3–64, Cl. 343—6.8.
Allen, Alford E., to General Electric Co. Toroidal deflection yoke winding. 3,117,258, 1–7–64, Cl. 317—200.
Allen, Arthur C.: *See*—
Bickler, Donald B., Allen, and Hosking. 3,136,613.
Allen, Arthur C., to Stewart-Warner Corp. Speed governor. 3,146,594, 9–1–64, Cl. 60—52.
Allen, Arthur F., to Rolls-Royce Ltd. Machine tool control apparatus. 3,142,214, 7–28–64, Cl. 82—14.
Allen-Bradley Co.: *See*—
De Smidt, Woodrow A. 3,144,293.
De Smidt, Woodrow A. 3,158,703.
De Smidt, Woodrow A., and Zarwell. 3,156,790.
Hansen, Robert V. 3,136,033.
Haydu, John L., and Lawrence. 3,149,210.
Kniel, Wolfgang E., and Zaffrann. 3,121,826.
Lawrence, Leland E. 3,134,869.
Moser, Joseph R., Struger, and Schatteiner. 3,127,546.
Pfister, Anthony C. 3,155,935.
Wruck, Quayne L. 3,121,834.
Allen, Charles F. H., and W. J. Humphlett, to Eastman Kodak Co. Continuous process for polymerizing bisphenols and phosgene. 3,133,044, 5–12–64, Cl. 260—47.
Allen, Charles L., and A. R. Taylor, to Dynamics Corp. of America. Negative ion generator using an ultraviolet source to irradiate electrically conductive material. 3,128,378, 4–7–64, Cl. 250—43.
Allen, Charles M.: *See*—
Geiger, Russell C., and Allen. 3,126,098.
Allen, Charles S., Jr. Air ring gun. 3,117,567, 1–14–64, Cl. 124—1.
Allen, Claude V., to The Inta-Roto Machine Co., Inc. Butt splicer. 3,161,368, 12–15–64, Cl. 242—58.4.
Allen, Clayton M. Protective cover for plants. 3,140,563, 7–14–64, Cl. 47—20.
Allen, Clifford R. Swinging frame contour wire saw. 3,158,-146, 11–24–64, Cl. 125—21.
Allen, Daniel E., H. E. Allen, and S. E. Allen. Demountable truck body. 3,138,276, 6–23–64, Cl. 214—505.
Allen, Darrell F., and J. A. Wold, to Apparel, Inc. Reversible garment. 3,147,490, 9–8–64, Cl. 2—84.
Allen, Delbert R., and F. V. Brosseit, to Western Electric Co., Inc. Punch and die for presses. 3,119,293, 1–28–64, Cl. 83—131.
Allen, Dewar L., and J. W. O'Malley. Shipping means. 3,159,930, 12–8–64, Cl. 40—2.
Allen, Dwight L., to Latex Industries, Inc. Needle plug guide for catheter. 3,138,161, 6–23–64, Cl. 128—348.
Allen, Edward L., and A. F. Gattiker, Jr., to Ingersoll-Rand Co. Rotary power hammer. 3,161,241, 12–15–64, Cl. 173—47.
Allen, Edwin L.: *See*—
Kirk, Joseph R., Allen, and Johnson. 3,163,445.
Allen Electric Co., Inc.: *See*—
Peterson, Norman L., and Allen. 3,133,233.
Allen Electronics, Inc.: *See*—
Christine, William C., and Pierce. 3,133,671.
Allen, Eric H. W., to George Kent Ltd. Liquid flow meter. 3,137,167, 6–16–64, Cl. 73—277.
Allen, Frank D.: *See*—
Sagal, John, Jr., and Allen. 3,128,187.
Allen, Gordon W.: *See*—
Johnson, Stephen W., Jr., Harford, and Allen. 3,145,-654.

Allen, Grady B.: *See*—
Peterson, Norman L., and Allen. 3,133,233.
Allen, Harold E.: *See*—
Allen, Daniel E., H. E., and S. E. 3,138,276.
Allen-Harper, Inc.: *See*—
Allen, Kenneth M., and Harper. 3,122,930.
Allen, Kenneth M., and Harper. 3,137,529.
Allen, Kenneth M., and Harper. 3,152,655.
Allen, Herbert, to Cameron Iron Works, Inc. Accumulator and charging means therefor. 3,131,721, 5–5–64, Cl. 137—568.
Allen, Herbert, to Cameron Iron Works, Inc. Valve apparatus for use as a blowout preventer or the like. 3,132,662, 5–12–64, Cl. 137—315.
Allen, Herbert, to Cameron Iron Works, Inc. Ball valve. 3,157,190, 11–17–64, Cl. 137—330.
Allen, Herbert, and J. V. Pennington, to Cameron Iron Works, Inc. Ball valve with a reinforced and deformable valve seat. 3,118,649, 1–21–64, Cl. 251—309.
Allen, Howard G., to Bostitch, Inc. Method of making bypass die. 3,142,204, 7–28–64, Cl. 76—101.
Allen, Howard G., and E. I. Fisher, to Bostitch, Inc. Fastener applying machine. 3,162,097, 12–22–64, Cl. 91—399
Allen Industries, Inc.: *See*—
Goldstone, Edward G. 3,146,150.
Allen, Irving C., D. Nepper, and F. F. Oehme, to Consolidated Papers, Inc. Apparatus for testing certain characteristics of paper and the like. 3,129,586, 4–21–64, Cl. 73—159.
Allen, Ivis J., to Ford Motor Co. Element for eddy current devices. 3,128,401, 4–7–64, Cl. 310—106.
Allen, James B.: *See*—
West, Charles F., and Allen. 3,157,115.
Allen, James B. Terminal board assembly. 3,131,330, 4–28–64, Cl. 317—99.
Allen, Jerry R., and D. M. Krausse, to Cosden Oi l& Chemical Co. Reactor and method for polymerizing olefins. 3,119,-884, 1–28–64, Cl. 260—683.15.
Allen, John D., and R. G. Holt, to Fawick Corp. Flow regulating valve with extended movement. 3,120,243, 2–4–64, Cl. 137—504.
Allen, John D., and R. G. Holt, to Fanwick Corp. Demand type flow divider. 3,125,110, 3–17–64, Cl. 137—101.
Allen, John D., and D. A. Stremple, to Fawick Corp. Flow control valve. 3,129,720, 4–21–64, Cl. 137—490.
Allen, John W., to Stanray Corp. Container for transporting thermally hot intensely radioactive material. 3,119,-933, 1–28–64, Cl. 250—108.
Allen, John W., to Stanray Corp. Apparatus utilizing liquid metal coolant for transporting thermally hot intensely radioactive material. 3,133,197, 5–12–64. Cl. 250—106.
Allen, John W., and R. A. Nance, to The Budd Co. Electromagnetic testing apparatus having a rotating apertured cylinder for spirally scanning cylindrical workpieces. 3,152,302, 10–6–64, Cl. 324—34.
Allen, Joseph C., to Texaco Inc. Producing petroleum from a subsurface formation. 3,120,265, 2–4–64, Cl. 166—42.
Allen, Joseph G., and E. W. Malmberg, to Sun Oil Co. Preparation of napthalene and 2,6-dimethylnaphthalene. 3,153,-676, 10–20–64, Cl. 260—668.
Allen, Joseph M., and E. L. Miner. Two-wheeled utility vehicle having a driven steering wheel. 3,155,185, 11–3–64, Cl. 180—31.
Allen, Joseph S. Delay apparatus and method employing electron stream. 3,161,801, 12–15–64, Cl. 315—39.3.
Allen, Kenneth C., to The Hobart Mfg. Co. Weighing scales. 3,120,287, 2–4–64, Cl. 177—5.
Allen, Kenneth C., to The Hobart Mfg. Co. Scale. 3,139,612, 6–30–64, Cl. 340—347.
Allen, Kenneth C., to The Hobart Mfg. Co. Ticket issuer. 3,153,361, 10–20–64, Cl. 83—203.
Allen, Kenneth C., and D. A. Meeker, to The Hobart Mfg. Co. Recording scale. 3,141,514, 7–21–64, Cl. 177—3.
Allen, Kenneth M., and C. H. Harper, to Allen-Harper, Inc. Vibrating mechanism and unbalancing rotor. 3,122,930, 3–3–64, Cl. 74—87.
Allen, Kenneth M., and C. H. Harper, to Allen-Harper, Inc. Modulating feeder for transferring discrete materials from a primary conveyor to a secondary conveyor. 3,137,529, 6–16–64, Cl. 302—42.
Allen, Kenneth M., and C. H. Harper, to Allen-Harper, Inc. Magnetic scale apparatus. 3,152,655, 10–13–64, Cl. 177—52.
Allen, Kenneth W., to United Kingdom Atomic Energy Authority. Nuclear fusion method. 3,152,958, 10–13–64, Cl. 176—1.
Allen, Kimball W. Shoeshine machine with pad dispensing means. 3,145,403, 8–25–64, Cl. 15—4.
Allen, Lawrence D.: *See*—
Allen, Lewis N. and L. D., and Robinson. 3,153,310.
Allen, Leslie, to Davy and United Engineering Co. Ltd. Roll adjusting gear for rolling mills and like applications. 3,147,650, 9–8–64, Cl. 80—56.
Allen, Leslie J., E. J. Lorenz, and W. J. Richardson, to International Business Machines Corp. Electronic packaging device. 3,162,788, 12–22–64, Cl. 317—101.
Allen, Lewis N. and L. D., and W. B. Robinson. Hinged adjustable support wheel for mowers. 3,153,310, 10–20–64, Cl. 56—322.
Allen, Lloyd R., to National Research Corp. Process for the extrusion of fine wire. 3,145,842, 8–25–64, Cl. 207—10.
Allen, Lloyd R., to National Research Corp. Process of extruding ultrafine wire. 3,145,843, 8–25–64, Cl. 207—10.
Allen, Lloyd R., to National Research Corp. Tin base alloys. 3,146,097, 8–25–64, Cl. 75—175.
Allen, Merrill J., to R. O. Gulden. Tonometer. 3,136,152, 6–9–64, Cl. 73—80.
Allen, Milton J., to Ciba Corp. 2-pyridyl-indenes. 3,118,-895, 1–21–64, Cl. 260—290.
Allen, Oliver L., J. J. Moughty, and W. A. Ross, to Elextrolux Corp. Surface treating devices. 3,121,896, 2–25–64, Cl. 15—50.
Allen, Opal: *See*—
Petermann, Ursula A., and Allen. 3,128,470.
Allen Organ Co.: *See*—
Markowitz, Jerome. 3,125,180.
Allen, Paul M., to Armco Steel Corp. Method for bonding metals. 3,133,346, 5–19–64, Cl. 29—470.9.
Allen, Philip H.: *See*—
Chromy, Benjamin J., and Allen. Re. 25,621.
Allen, Philip H., to H.J.J. Co. Screw-holding screw driver. 3,150,699, 9–29–64, Cl. 145—50.
Allen, Philip J. Microwave polarization resolver. 3,142,061, 7–21–64, Cl. 343—100.
Allen, Philip J. Re-radiating antenna device. 3,154,784, 10–27–64, Cl. 343—18.
Allen, Ralph G. Projection screen device with vertically adjustable detachable legs. 3,134,299, 5–26–64, Cl. 88—24.
Allen, Richard E., to Corning Glass Works. Method of bonding absorbing material to a delay line. 3,131,459, 5–5–64, Cl. 29—155.5.
Allen, Richard E., to Corning Glass Works. Method of bonding a crystal to a delay line. 3,131,460, 5–5–64, Cl. 29—155.5.
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Alvarez, Belarmino, and W. H. Kroll. Portable electric cigarette, cigar and pipe lighter. 3,125,662, 3–17–64, Cl. 219—32.
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Ambrosano, Edward A., Sr., to United States of America, Navy. Bridle and pendant arrestment deflector. 3,145,952, 8–25–64, Cl. 244—63.
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May, Maurice. 3,123,869.
Anaconda American Brass Co.: *See*—
Somers, John D. 3,148,898.
Voegeli, Henry E. 3,133,795.
Anaconda Co., The: *See*—
Clark, Milton W. 3,116,843.
Duffy, Walter R. 3,152,673.
Warren, John W. 3,116,989.
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Anaconda Wire and Cable Co.: *See*—
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Ege, Sigmund. 3,128,135.
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Feick, George, III, and Olds. 3,163,705.
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Anagnostopoulos, Constantine E., and A. J. Lauck, to Monsanto Co. Plasticized halogen-containing resins. 3,149,087, 9–15–64, Cl. 260—31.6.
Anagnostou, George N. Rope ladder. 3,128,843, 4–14–64, Cl. 182—198.
Anagnostou, George N. Rope net and fittings therefor. 3,140,112, 7–7–64, Cl. 294—77.
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Anastasia, Harry G., and W. F. Watson, to The Bendix Corp. Mechanism for adjusting the relation between rotary motions at input and output shafts. Re. 25,513, 1–14–64, Cl. 74—395.
Anastasio, Charles O., to Lowe Paper Co. Process for making usable waste paper containing bitumens. 3,158,350, 11–24–64, Cl. 162—5.
Anastasoff, Vladimir, L. J. Landry, and V. E. McDaniel, to Shell Oil Co. Wax-oil separation process. 3,159,563, 12–1–64, Cl. 208—30.
Ancell, Nathan S., and G. M. Smith, to Baumritter Corp. Footstool or the like. 3,121,551, 2–18–64, Cl. 248—371.
Ancet, Victor M. J., and Marius Fayolle, known as Marcel, to Brelic International Inc. Selvedge-forming device for shuttleless looms. 3,116,762, 1–7–64, Cl. 139—124.
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Stranberg, Don F., and Luther. 3,142,503.
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Foss, George J., and Acton. 3,143,234.
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Anderer, Joseph H., A. P. Da Vinci, and T. F. McHugh, to FMC Corp. Regenerated cellulose fiber. 3,156,605, 11–10–64, Cl. 161—169.
Anderko, Kurt, H. Richter, and H.-W. Schleicher, to United States of America, Atomic Energy Commission. Zirconium alloy treatment process. 3,121,034, 2–11–64, Cl. 148—11.5.
Anderko, Kurt, and J. Dornauf, to Metallgesellschaft Aktiengesellschaft. Process for improving aluminum silicon alloys. 3,151,980, 10–6–64, Cl. 75—148.
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Anders, Albert, 25% to T. M. Gordon. Pneumatic ironing and peening tool. 3,117,475, 1–14–64, Cl. 81—15.
Anders, Frank M. Thermoelectric system. 3,159,979, 12–8–64, Cl. 62—3.
Anders, Frederic J., Jr., to E. I. du Pont de Nemours and Co. Dispersion hardened metal product and process. 3,159,908. 12–8–64, Cl. 29—182.5.
Anders, Walter G., to Sperry Rand Corp. Slotted bookshelf and book support. 3,138,262, 6–23–64, Cl. 211—43.
Anders, Walter G., to Sperry Rand Corp. Latching device. 3,161,427, 12–15–64, Cl. 292—194.
Andersen, Andreas H., deceased; F. S. Andersen, heir of said A. H. Andersen, to F. S. Andersen Ingenior-& Maskinforretning I/S. Impeller constructions. 3,161,239, 12–15–64, Cl. 170—173.
Andersen, Ariel A. Method and apparatus for sampling airborne micro-organisms. 3,127,329, 3–31–64, Cl. 195—103.5.
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Andersen, Clifford W., to The Wurlitzer Co. Felt applying apparatus. 3,147,171, 9–1–64, Cl. 156—423.
Andersen, Clifford W., to The Wurlitzer Co. Apparatus for pinning a keyframe. 3,147,485, 9–8–64, Cl. 1—302.
Andersen, Clifford W., to The Wurlitzer Co. Apparatus for making a piano regulating rail assembly. 3,153,432, 10–20–64, Cl. 144—3.
Andersen, Clifford W., to The Wurlitzer Co. Bridle wire. 3,154,993, 11–3–64, Cl. 84—240.
Andersen, Clifford W., to The Wurlitzer Co. Resilient tuning pin. 3,156,151, 11–10–64, Cl. 184—201.
Andersen, Clifford W., to The Wurlitzer Co. Apparatus for cutting a piano keyboard blank. 3,158,185, 11–24–64, Cl. 144—2.
Andersen, Clifford W., to The Wurlitzer Co. Symmetrical bridle wire. 3,162,082, 12–22–64, Cl. 84—240.
Andersen, Clifford W., and P. J. Roehrig, to The Wurlitzer Co. Keyfork arrangement. 3,139,780, 7–7–64, Cl. 84—240.
Andersen, Clifford W., and C. S. Corey, to The Wurlitzer Co. Piano action. 3,139,781, 7–7–64, Cl. 84—240.
Andersen, Clifford W., and P. J. Roehrig, to The Wurlitzer Co. Piano action. 3,147,659, 9–8–64, Cl. 84—240.
Andersen, Donald L., and J. B. Thielen, to General Mills, Inc. N-(N-higher aliphatic hydrocarbon amio-propyl)-morpholines. 3,156,687, 11–10–64, Cl. 260—247.2.
Andersen, Edward O., to General Electric Co. Thermally responsive switch having a calibrated switch contact motion. 3,134,002, 5–19–64, Cl. 200—137.
Andersen, Egil A., to United States Envelope Co. Rotary window cutter for envelope machines or the like. 3,143,-022, 8–4–64, Cl. 83—341.
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Andersen, Andreas H. 3,161,239.
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Derbyshire, Charles E., and Andersen. 3,138,774.
Andersen, George L., to Avis Industrial Corp. Production die. 3,138,257, 6–23–64, Cl. 207—6.
Andersen, George L., to Avis Industrial Corp. Transfer mechanism. 3,143,217, 8–4–64, Cl. 214—1.
Andersen, George L., to Avis Industrial Corp. Method and apparatus for determining the volume of slugs cut off from irregular bar stock. 3,149,519, 9–22–64, Cl. 83—209.
Andersen, George L., to Avis Industrial Corp. Work ejector for presses. 3,157,111, 11–17–64, Cl. 100—218.
Andersen, Harold W. Spark plug with automatic means for varying its heat dissipation capacity. 3,130,338, 4–21–64, Cl. 313—11.5.
Andersen, Harry M., and W. R. Richard, Jr., to Monsanto Co. Production of high-density Ziegler polymers. 3,150,-122, 9–22–64, Cl. 260—94.9.
Andersen, Harry M., and W. R. Richard, Jr., to Monsanto Co. Method of preparing a modified Ziegler polymerization catalyst. 3,163,611, 12–29–64, Cl. 252—429.
Andersen, Holger C., and P. L. Romeo, Sr., to Engelhard Industries, Inc. Decomposition of peracetic acid with platinum or ruthenium catalyst on a carbon powder. 3,146,243, 8–25–64, Cl. 260—348.5.
Andersen, James C., and T. J. Keaty, to United States of America, Atomic Energy Commission. High temperature furnace. 3,128,325, 4–7–64, Cl. 13—20.
Andersen, Johannes H. Rubber bumper for automobiles. 3,130,998, 4–28–64, Cl. 293—64.
Andersen, John M., to Hansa Bryggeri, A/S. Packing machine. 3,130,528, 4–28–64, Cl. 53—55.
Andersen, Kaj O. Distributor of liquid ammonia. 3,143,129, 8–4–64, Cl. 137—210.
Andersen, Max B., to Northrop Corp. Fixture for chucking components. 3,128,090, 4–7–64, Cl. 269—7.
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Andersen, Raymond H.: *See*—
Jensen, Hans, and Andersen. 3,120,959.
Andersen, Reidar E. Ball projector having clutch and spring means causing a striker head to contact a ball in its path of travel. 3,128,752, 4–14–64, Cl. 124—16.
Andersen, Robert W., to W. H. Miner, Inc. Friction shock absorbing mechanisms. 3,146,894, 9–1–64, Cl. 213—32.
Andersen, Thomas K., to Maine Steel Corp. Valves for hydraulic systems. 3,129,644, 4–21–64, Cl. 91—413.
Andersen, Thor A., and C. Deibel, to Westinghouse Electric Corp. Compaction process. 3,158,474, 11–24–64, Cl. 75—214.
Andersen, William, to Novo Terapeutisk Laboratorium A/S. Process of making N-acyl derivatives of 6-amino-pencillanic acid. 3,161,634, 12–15–64, Cl. 260—239.1.
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Anderson, Albert E., and W. R. Stubstad, to Collins Radio Co. Temperature stabilized chamber utilizing thermoelectric cooling. 3,155,157, 11–3–64, Cl. 165—30.
Anderson, Alfred H., to The General Fireproofing Co. Posture chair. 3,121,592, 2–18–64, Cl. 297—284.
Anderson, Alfred H. Sash balance. 3,130,457, 4–28–64, Cl. 20—52.
Anderson, Alfred J., to H. V. Hardman Co., Inc. Proportioning apparatus. 3,116,852, 1–7–64, Cl. 222—21.
Anderson, Alfred J., to H. V. Hardman Co. Inc. Apparatus for manufacture of paint brushes. 3,154,346, 10–27–64, Cl. 300—2.
Anderson, Andrew P. Vertically arranged apparatus for the washing and drying of dishes and the like. 3,132,655, 5–12–64, Cl. 134—68.
Anderson, Andrew W., to Scandia Packaging Machinery Co. Closure mechanism for food tray covers. 3,116,580, 1–7–64, Cl. 53—329.
Anderson, Andrew W., to Scandia Packaging Machinery Co. Package boxing mechanism. 3,125,841, 3–24–64, Cl. 53—228.
Anderson, Andrew W., to Scandia Packaging Machinery Co. Compressing mechanism for food trays. 3,138,906, 6–30–64, Cl. 53—124.
Anderson, Andrew W., to Scandia Packaging Machinery Co. Wrapper sheet. 3,141,602, 7–21–64, Cl. 229—87.
Anderson, Arthur C., to A. C. Anderson, Inc. Earth loader. 3,133,653, 5–19–64, Cl. 214—140.
Anderson, Arthur I., and K. Konicek, to Butler Mfg. Co. Pneumatic bulk trailer. 3,152,842, 10–13–64, Cl. 302—53.
Anderson, Arthur R., T. M. Stickney, and D. W. Gordon, to Cook Electric Co. High temperature measuring probe. 3,131,562, 5–5–64, Cl. 73—362.
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Burk, Emmett H., Jr., Erickson, and Anderson. 3,122,-510.
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Anderson, Arvin D., to Sinclair Research, Inc. Method for removing vanadium and nickel from a silica based catalyst. 3,150,103, 9–22–64, Cl. 252—412.
Anderson, Arvin D., and R. A. Sanford, to Sinclair Research, Inc. Pretreatment and cracking of residual oils. 3,162,-596, 12–22–64, Cl. 208—89.
Anderson, Axel, to Sundstrand Corp. Article applying machine. 3,117,690, 1–14–64, Cl. 218—2.
Anderson, Axel F. L., to American Radiator & Standard Sanitary Corp. Fluid drive for oil well drilling draw works. 3,130,824, 4–28–64, Cl. 192—3.2.
Anderson, Axel F. L., and P. A. Weller, to American Radiator & Standard Sanitary Corp. Liquid refrigerant cooling of hermetric motors. 3,149,478, 9–22–64, Cl. 62—469.
Anderson, Burton C., and M. I. Kohan, to E. I. du Pont de Nemours and Co. Process for the anionic polymerization of caprolactam with benzimido compounds as activators. 3,138,576, 6–23–64, Cl. 260—78.
Anderson, Carl A. Life saving wadders. 3,154,800, 11–3–64, Cl. 9—343.
Anderson, Carl C., Jr.: *See*—
Luce, Vincent D. S. 3,158,485.
Anderson, Carl C., Sr.: *See*—
Luce, Vincent D. S. 3,158,485.
Anderson, Carl D. Articulated conveyor. 3,135,374, 6–2–64, Cl. 198—109.
Anderson, Carl J.: *See*—
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Anderson, Carl P.: *See*—
Kleinschmidt, Edward F., and Anderson. Re. 25,654.
Anderson, Charles C., and R. B. Rinehart, to Cannon Electric Co. Electrical contact socket, and apparatus and method for making the same. 3,123,429, 3–3–64, Cl. 339—258.
Anderson, Charles E., and N. Lasarev, to Ampex Corp. Rotating head switcher. 3,117,188, 1–7–64, Cl. 179—100.2.
Anderson, Charles H., to United States Projector and Electronics Corp. Film gate and advancing apparatus. 3,124,-039, 3–10–64, Cl. 88—28.
Anderson, Charles H., to United States Projector & Electronics Corp. Photocopy machine. 3,147,665, 9–8–64, Cl. 88—24.
Anderson, Charles H., Jr.: *See*—
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Anderson, Christian, to Yankee Atomic Electric Co. Friction wrench. 3,124,984, 3–17–64, Cl. 81—64.
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Jones, Lorenz B. 3,122,252.
Roots, Logan C. 3,122,422.
Sinclair, Alfred C. and S. W. 3,131,626.
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Sinclair, Stuart W. 3,122,092.
Sinclair, Stuart W. 3,143,958.
Anderson, Cleophas E., and G. G. Pins, to Thermolyne Corp. Magnetic stirring device. 3,138,370, 6–23–64, Cl. 259—108.
Anderson, Clifford E., to ACF Industries, Inc. Control unit. 3,157,030, 11–17–64, Cl. 60—52.
Anderson, Clifford E., and J. T. Stewart, Jr., to ACF Industries, Inc. Spherical plug valve having pressurized seats including body pressure relief means. 3,122,352, 2–25–64, Cl. 251—172.

Anderson Co., The: *See*—
Krohm, Fred A. 3,122,770.
Krohm, Fred A. 3,126,216.
Krohm, Fred A. 3,126,567.
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Martens, Jack E. 3,127,783.
Martens, Jack E. 3,127,788.
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Anderson Controls, Inc.: *See*—
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Anderson, David F.: *See*—
Stanton, Arthur J., Anderson, and Boniface. 3,152,511.
Stanton, Arthur J., Anderson, Shawen, and King. 3,153,-368.
Stanton, Arthur J., Anderson, Taylor, Butterworth, and Shawen. 3,144,810.

Anderson, David F., R. Butterworth, and R. E. Taylor, to United States of America, Navy. Sear and trigger mechanism. 3,158,063, 11–24–64, Cl. 89—137.

Anderson, Dewey L. Side wall sampling device. 3,154,157, 10–27–64, Cl. 175—78.

Anderson Die and Mfg. Co.: *See*—
Anderson, George C. 3,152,693.

Anderson, Donald A., to Canadian Ingersoll-Rand Co., Ltd. System and method for maintaining efficiency of screening particles under varying conditions of moisture content. 3,143,493, 8–4–64, Cl. 209—238.

Anderson, Donald J. Despaceable plunger mercury switch. 3,161,745, 12–15–64, Cl. 200—112.

Anderson, Donald J. Induction furnace with removable crucible. 3,162,710, 12–22–64, Cl. 13—27.

Anderson, Donald V., and J. G. Gillman, 31% to Wayne Luders, and 10% to Paul D. Jackson. Method for removing the meat from king crab legs. 3,149,371, 9–22–64, Cl. 17—45.

Anderson, Douglas E., to The General Electric Co. Ltd. Nuclear reactor servicing machines. 3,146,900, 9–1–64, Cl. 214—18.

Anderson, Douglas G. F., to Baker Perkins, Inc. Conveyors. 3,144,111, 8–11–64, Cl. 193—35.

Anderson, Earl R. Pitter for drupaceous fruits. 3,119,426, 1–28–64, Cl. 146—28.

Anderson, Earl R. Hose holding fixture. 3,119,587, 1–28–64, Cl. 248—75.

Anderson, Earl R., to Filper Corp. Method and apparatus for spaced feed of articles. 3,126,087, 3–24–64, Cl. 198—34.

Anderson, Edgar L., to Wilmot Castle Co. Control apparatus for doors. 3,144,956, 8–18–64, Cl. 220—55.3.

Anderson, Edgar L., to Wilmot Castle Co. Closure apparatus for pressure chamber. 3,144,957, 8–18–64, Cl. 220—55.3.

Anderson, Edgar L., to Wilmot Castle Co. Door locking apparatus. 3,145,021, 8–18–64, Cl. 268—65.

Anderson, Edmund B., ½ to said Anderson and ½ to W. H. Stark. Anti-backlash slip joint. 3,143,867, 8–11–64, Cl. 64—23.

Anderson, Edward E., M. P. Giggey, W. F. Hampton, and C. P. Shaw, to Ocean Spray Cranberries, Inc. Method of making a cranberry relish. 3,142,574, 7–28–64, Cl. 99—102.

Anderson, Edward E., W. F. Hamilton, and A. W. Anti, to Ocean Spray Cranberries, Inc. Process for forming a jellied cranberry sauce. 3,142,577, 7–28–64, Cl. 99—129.

Anderson, Edward E., J. H. Tichenor, and S. A. Raymond, to Arthur D. Little, Inc. Process for cooking corn dough in the form of chips. 3,149,978, 9–22–64, Cl. 99—80.

Anderson, Edward P., to Engelhard Industries, Inc. Bronze half-cell for cathodic protection system. 3,117,070, 1–7–64, Cl. 204—196.

Anderson, Edward P. Cathodic protection anode assembly. 3,156,637, 11–10–64, Cl. 204—196.

Anderson, Edward P., and A. J. Zwanzig, to Engelhard Industries, Inc. Reference electrode assembly. 3,129,161, 4–14–64, Cl. 204—196.

Anderson, Edwin A. Junk retriever. 3,120,872, 2–11–64, Cl. 166—99.

Anderson, Edwin L., to E. I. du Pont de Nemours and Co. Polyethylene blend. 3,125,548, 3–17–64, Cl. 260—45.5.

Anderson Electric Corp.: *See*—
Flynn, Gordon L. 3,129,282.
McDurmont, Walter R. 3,154,981.
Minor, Leon C. 3,156,516.

Anderson, Ellis T.: *See*—
Leasure, William C., and Anderson. 3,133,390.

Anderson, Elvin L., to Smith Kline & French Laboratories. Phenoxathiinyl glyoxal derivatives. 3,117,121, 1–7–64, Cl. 260—240.

Anderson, Elvin L., to Smith Kline & French Laboratories. Fluorenyl bisglyoxal derivatives. 3,146,259, 8–25–64, Cl. 260—518.

Anderson, Elvin L., to Smith Kline & French Laboratories. Durene bisglyoxal derivatives. 3,157,698, 11–17–64, Cl. 260—518.

Anderson, Elvin L., and D. E. Rivard, to Smith Kline & French Laboratories. 2-biphenylyl-2-hydroxy-morpholinium halides. 3,117,967, 1–14–64, Cl. 260—247.7.

Anderson, Elvin L., and M. Gordon, to Smith Kline & French Laboratories. Novel substituted phenylalkylamines. 3,149,-147, 9–15–64, Cl. 260—465.

Anderson, Eric W.: *See*—
Dohm, Daniel, Jr., and Anderson. 3,146,697.

Anderson, Ernest J., and A. O. Johnson, to United States Steel Corp. Control apparatus for railway dump cars. 3,126,840, 3–31–64, Cl. 105—273.

Anderson, Floyd E., to Warner-Lambert Pharmaceutical Co. Substituted 2-imidazolines. 3,147,270, 9–1–64, Cl. 260—296.

Anderson, Floyd E., and M. Fedorcchuk, to Wallace & Tiernan Inc. Tropanylhydrazines. 3,132,148, 5–5–64, Cl. 260—292.

Anderson, Frank E., and I. W. Mills, to Sun Oil Co. Preparation of electrical and refrigerator oils. 3,145,161, 8–18–64, Cl. 208—275.

Anderson, Frank R. Automatic hot bed. 3,129,530, 4–21–64, Cl. 47—19.

Anderson, Frank R. Hoeing machine. 3,129,772, 4–21–64, Cl. 172—42.

Anderson, Frithiof B., to Bell Telephone Laboratories, Inc. Negative feedback amplifier. 3,128,436, 4–7–64, Cl. 330—79.

Anderson, George A., to Collier-Keyworth Co. Swivel chair support construction. 3,161,396, 12–15–64, Cl. 248—405.

Anderson, George B.: *See*—
Anderson, George B., Hall, and Crenshaw. 3,133,291.

Anderson, George B., S. A. Hall, and M. L. Crenshaw, to G. B. Anderson. Combustion toilet. 3,133,291, 5–19–64, Cl. 4—131.

Anderson, George C., to Anderson Die and Mfg. Co. Slip guide for binding straps. 3,152,693, 10–13–64, Cl. 206—60.

Anderson, George L.: *See*—
Hoice, John P., and Anderson. 3,158,815.

Anderson, George R., and D. M. Stough, to Hogan Controls Corp. Method of and apparatus for correcting head type steam flow meters from steam pressure and superheat referred to superheat base. 3,143,879, 8–11–64, Cl. 73—205.

Anderson, George W., and R. W. Young, to American Cyanamid Co. Imidazolephosphites. 3,120,542, 2–4–64, Cl. 260—309.

Anderson, George W., and R. Paul, to American Cyanamid Co. Peptide synthesis using N-N′ carbonyldiimidazole activator. 3,121,707, 2–18–64, Cl. 260—112.

Anderson, George W., and A. C. Belcher, to American Cyanamid Co. Para-nitrophenyl tertiary butyl carbonate. 3,124,606, 3–10–64, Cl. 260—463.

Anderson, Gerald C., G. Mommsen, T. L. Schuette, M. J. Straub, and R. A. Zimmerman, to Gordon Johnson Co. Wire feeding mechanism for bird tying machine. 3,149,557, 9–22–64, Cl. 100—8.

Anderson, Glenn A.: *See*—
Hagen, William F., and Anderson. 3,134,243.

Anderson, Glenn M., to Penick & Ford, Ltd. Method of sizing hydrophobic synthetic yarns. 3,144,351, 8–11–64, Cl. 117—138.8.

Anderson, Glenn R., to McCulloch Corp. Fuel supply system. 3,158,193, 11–24–64, Cl. 158—36.3.

Anderson, Greenwood & Co.: *See*—
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Weise, Irvin B. 3,143,130.

Anderson, Harold C., to Litton Systems, Inc. Spin resonant transducer. 3,134,093, 5–19–64, Cl. 340—173.

Anderson, Harold C., to Litton Systems, Inc. Optical device. 3,158,678, 11–24–64, Cl. 88—61.

Anderson, Harold C., and A. E. Shanholtzer, to Litton Systems, Inc. Spin resonant transducer. 3,134,094, 5–19–64, Cl. 340—173.

Anderson, Harold C., and K. E. Peltzer, to Litton Systems, Inc. Microwave process and apparatus. 3,137,003, 6–9–64, Cl. 346—74.

Anderson, Harold P., to Bell Telephone Laboratories, Inc. Pulse shaper employing means to control time constant of included differentiator circuit. 3,140,407, 7–7–64, Cl. 307—88.5.

Anderson, Harry B., to United Aircraft Corp. Electron beam centering apparatus. 3,152,238, 10–6–64, Cl. 219—121.

Anderson, Herbert R., to Tri-Wall Containers, Inc. Corrugated cartons having crush-relieved flaps. 3,122,976, 3–3–64, Cl. 93—58.2.

Anderson, Herbert R., Jr., to Phillips Petroleum Co. Use of ionizing radiation to improve polymer-metal laminates. 3,146,146, 8–25–64, Cl. 156—272.

Anderson, Hilding A.: *See*—
Kleinschmidt, Edward F., Anderson, Frick, Clark, and Chinlund. 3,150,235.

Anderson, Hilding A., and R. S. Wenman, to SCM Corp. High speed serial printer. 3,131,627, 5–5–64, Cl. 101—93.

Anderson, Howard H.: *See*—
Halsted, Hal F., Benun, Mamone, and Anderson. 3,135,-203.

Anderson, Hubert J., to Automatic Welding Co. Portable welding apparatus. 3,162,750, 12–22–64, Cl. 219—130.

Anderson, Jack G.: *See*—
Anderson, John H. 3,117,786.

Anderson, James A., to Breneman-Hartshorn, Inc. Window shade bracket with crimped nail. 3,121,550, 2–18–64, Cl. 248—216.

Anderson, James A., to Breneman-Hartshorn, Inc. Blind and valance combination. 3,124,195, 3–10–64, Cl. 160—19.

Anderson, James A., and J. A. Ash, to Breneman-Hartshorn, Inc. Apparatus for cutting roller shades. 3,121,359, 2–18–64, Cl. 82—83.

Anderson, James D., J. J. Brautigam, and H. H. Cohen, to Burndy Corp. Extraction tool. 3,135,043, 6–2–64, Cl. 29—270.
Anderson, James D., and E. L. Cheh, to Burndy Corp. Swaging machine. 3,159,197, 12–1–64, Cl. 153—1.
Anderson, James R. Process and apparatus for temporarily indicating corrections in text of printed matter. 3,136,248, 6–9–64, Cl. 101—426.
Anderson, James W.: *See*—
Quick, Kenneth A., Anderson, and Carter. 3,116,817.
Anderson, Jens O. Adjustable means for hand tools. 3,125,381, 3–17–64, Cl. 306—12.
Anderson, Jerrold L.: *See*—
Miller, Robert E., and Anderson. 3,155,590.
Anderson, John A.: *See*—
Van Auwelaer, Albert J., Anderson, and French. 3,120,897.
Anderson, John E., and I. W. Metzger, to Honeywell Inc. Pendulous gyroscopic accelerometers. 3,162,052, 12–22–64, Cl. 73—504.
Anderson, John G., to General Electric Co. Surge voltage recorder. 3,148,372, 9–8–64, Cl. 346—74.
Anderson, John G., and R. U. Giacomoni, to General Electric Co. Method and means for indicating the mode of failure of insulators. 3,156,866, 11–10–64, Cl. 324—72.
Anderson, John H., ½ to J. G. Anderson. Wrist supporting device for bowlers. 3,117,786, 1–14–64, Cl. 273—54.
Anderson, John J., and W. C. Harris, to S. C. Johnson & Son, Inc. Novel polish combination. 3,131,410, 5–5–64, Cl. 15—244.
Anderson, John J., Jr. Thermal insulating assembly. 3,130,112, 4–21–64, Cl. 161—89.
Anderson, John L., and D. C. England, to E. I. du Pont de Nemours and Co. Fluorosultones and sulfites, and the preparation of the latter. 3,163,656, 12–29–64, Cl. 260—327.
Anderson, John M.: *See*—
Lindway, Andrew S., and Anderson. 3,153,114.
Anderson, John R., to The National Cash Register Co. Memory devices using ferroelectric capacitors and photoconductors. 3,158,842, 11–24–64, Cl. 340—173.2.
Anderson, John W. Windshield wiper assembly. 3,130,437, 4–28–64, Cl. 15—250.42.
Anderson, John W. Windshield wiper blade. 3,131,413, 5–5–64, Cl. 15—250.42.
Anderson, John W. Method of making a pulley structure. 3,144,705, 8–18–64, Cl. 29—159.
Anderson, John W. Windshield wiper blade. 3,156,940, 11–17–64, Cl. 15—250.42.
Anderson, John W. Windshield wiper blade assembly. 3,158,890, 12–1–64, Cl. 15—250.42.
Anderson, Joseph S., L. W. Gamble, W. H. Padgett, and R. L. Ray, to Esso Research and Engineering Co. Method for blending finely divided polyethylene and polypropylene and extruding the mixture and the product formed thereby. 3,153,681, 10–20–64, Cl. 260—897.
Anderson, Karl V., to Ingersoll-Rand Co. Cam shaft construction. 3,142,996, 8–4–64, Cl. 74—54.
Anderson, Kelvin E.: *See*—
Rankin, Dudley D. R., and Anderson. 3,154,292.
Anderson, Leonard R., to Kennecott Copper Corp. Braking system for railroad cars. 3,155,201, 11–3–64, Cl. 188—265.
Anderson, Leroy E., to Snappy, Inc. Portable sheet metal hole cutter. 3,146,675, 9–1–64, Cl. 90—12.
Anderson, Lester J., and J. W. Daley, to Marine Master, Inc. Remote control for motor boat engine and steering controls. 3,121,415, 2–18–64, Cl. 115—18.
Anderson, Lloyd E., Sr., to Pittsburgh-Des Moines Steel Co. Fabrication of structural members. 3,144,543, 8–11–64, Cl. 219—102.
Anderson, Lloyd E., Sr., and M. T. Buckwalter, to Pittsburgh-Des Moines Steel Co. Tube seal for floating roof storage tank. 3,116,850, 1–7–64, Cl. 220—26.
Anderson, Louis C. Jr., and H. H. Hagstrom, to Teletype Corp. Transmitter control mechanism. 3,146,306, 8–25–64, Cl. 178—17.
Anderson, Louis C., Jr., and A. A. Hagstrom, to Teletype Corp. Electromagnet with spring-retained armature structure. 3,147,410, 9–1–64, Cl. 317—165.
Anderson, Louis C., Jr., A. A. Hagstrom, and R. A. Thienemann, to Teletype Corp. Telegraph transmitter. 3,150,234, 9–22–64, Cl. 178—17.
Anderson, Louis H.: *See*—
Eolkin, Dave, Allard, Anderson, and Lovasz. 3,147,173.
Anderson, Louis H., to Gerber Products Co. Dehydrated fruit juice. 3,117,878, 1–14–64, Cl. 99—206.
Anderson, Louis P. Aligning fixture. 3,148,454, 9–15–64, Cl. 33—185.
Anderson, Lyle K.: *See*—
Carruthers, Eben H., Anderson, and Jann. 3,152,912.
Anderson, Lyle V., and R. Rozenbergs, deceased (by I. Rozenbergs, administratrix), to Blaw-Knox Co. Segmented coil drum. 3,116,891, 1–7–64, Cl. 242—72.1.
Anderson, Lynn T., and C. E. Kress, to Bell Telephone Laboratories, Inc. High-speed steering circuit for frequency shift pulse sender. 3,125,642, 3–17–64, Cl. 179—18.
Anderson, Malcolm G., to The Goodyear Tire & Rubber Co. Safety tire having an inner tire provided with a chafe and puncture resisting tread. 3,160,191, 12–8–64, Cl. 152—341.
Anderson, Malcolm G., and J. S. Hawkes, to The Goodyear Tire & Rubber Co. Process for making pneumatic tires. 3,142,597, 7–28–64, Cl. 156—123.
Anderson, Marshall N., to Sellstrom Mfg. Co. Adjustable temple for eyeglasses. 3,133,141, 5–12–64, Cl. 88—52.
Anderson, Marshall N., to Sellstrom Mfg. Co. Cradle attachment for head protective equipment. 3,156,922, 11–17–64, Cl. 2—3.
Anderson, Martin. Tetrapodal mixing device. 3,134,578, 5–26–64, Cl. 259—89.
Anderson, Marvin A. Oven tray. 3,141,590, 7–21–64, Cl. 225—6.
Anderson, Marvin H., Jr., and R. Mittermann, to Western Electric Co., Inc. Conveyor system. 3,156,193, 11–10–64, Cl. 104—88.
Anderson, Mary A. Baby carriers. 3,162,343, 12–22–64, Cl. 224—6.
Anderson, Maxie L.: *See*—
Luce, Vincent D. S. 3,158,485.
Anderson, Maynard E., to American Radiator & Standard Sanitary Corp. Granular detergent dispenser. 3,135,429, 6–2–64, Cl. 222—161.
Anderson, Maynard E., to American Radiator & Standard Sanitary Corp. Pushbutton switch construction. 3,149,208, 9–15–64, Cl. 200—5.
Anderson, Maynard E., to American Radiator & Standard Sanitary Corp. Program timer. 3,151,257, 9–29–64, Cl. 307—141.4.
Anderson, Maynard E., to American Radiator & Standard Sanitary Corp. Electric motor control. 3,159,244, 12–1–64, Cl. 185—11.
Anderson, Melvin R., to Westinghouse Electric Corp. Terminal assembly shield. 3,129,049, 4–14–64, Cl. 339—149.
Anderson, Miller, Pool Co.: *See*—
Anderson, Miller A. 3,155,989.
Anderson, Miller A., to Miller Anderson Pool Co. Swimming pool surface water removal system. 3,155,989, 11–10–64, Cl. 4—172.
Anderson, Neal S., to Thompson Ramo Wooldridge Inc. Locating system for detectable energy. 3,137,854, 6–16–64, Cl. 343—112.
Anderson, Nelson E., deceased; S. B. Anderson, administratrix, to Air Reduction Co., Inc. Pilot operated control device. 3,132,235, 5–5–64, Cl. 219—75.
Anderson, Nelson E., to Air Reduction Co., Inc. Touch starting of power arcs. 3,133,187, 5–12–64, Cl. 219—131.
Anderson, Noel M. Floating diaphragm for pressure tanks. 3,159,301, 12–1–64, Cl. 220—26.
Anderson, Norman J. Apparatus for achieving symmetrical response and simple time characteristic. 3,137,822, 6–16–64, Cl. 329—204.
Anderson, Orin M.: *See*—
Ferrari, William A., Anderson, and Dean. 3,161,305.
Anderson, Patricia T.: *See*—
Johnson, Robert A., and Anderson. 3,127,388.
Anderson, Paul L.: *See*—
Roser, Robert A., and Anderson. 3,127,027.
Anderson, Paul L., and J. A. Zagusta, to Rogers Corp. Method of making a printed circuit. 3,161,945, 12–22–64, Cl. 29—155.5.
Anderson, Paul W. Fish lures with sinuous action. 3,157,959, 11–24–64, Cl. 43—42.03.
Anderson, Pelham H., Jr.: *See*—
Wheeler, James D., and Anderson. 3,124,848.
Anderson, R. E.: *See*—
Savidge, James L. 3,152,650.
Anderson, Ralph F.: *See*—
Anderson, Ralph F., and Sorensen. 3,124,916.
Anderson, Ralph F., and E. A. Kremeyer; said Kremeyer assor. to said Anderson. Sausage stuffing apparatus. 3,118,173, 1–21–64, Cl. 17—37.
Anderson, Ralph F., and R. P. Sorensen, to R. F. Anderson. Filling and capping machine. 3,124,916, 3–17–64, Cl. 53—37.
Anderson, Ralph F., and F. W. Villemure; said Villemure assor. to said Anderson. Carton filling machine. 3,159,189, 12–1–64, Cl. 141—172.
Anderson, Ralph F., and C. G. Hallgren, to National Lock Co. Latch assembly for medicine cabinets. 3,160,431, 12–8–64, Cl. 292—42.
Anderson, Raymond J., to United States of America, Navy. Azimuth control system for towed submersible bodies. 3,125,980, 3–24–64, Cl. 114—235.
Anderson, Richard F., to Arvin Industries, Inc. Electric terminal. 3,124,641, 3–10–64, Cl. 174—84.
Anderson, Richard M.: *See*—
Birum, Gail H., Schwendeman, and Anderson. 3,132,169.
Anderson, Richard M., and G. H. Birum, to Monsanto Co. Flame resistant composition containing an organic polymer and halogenated diphosphate. 3,157,613, 11–17–64, Cl. 260—30.6.
Anderson, Richard N., to V. E. Anderson Mfg. Co. Automatic extrusion handling equipment. 3,157,268, 11–17–64, Cl. 198—20.
Anderson, Richard R., to Bell Telephone Laboratories, Inc. Data translating system. 3,158,839, 11–24–64, Cl. 340—172.5
Anderson, Richard S., to Genisco Inc. Magnetic tape transport apparatus. 3,145,893, 8–25–64, Cl. 226—170.
Anderson, Robert A., and D. T. Brown, to International Business Machines Corp. Binary coded decimal to binary translator. 3,160,872, 12–8–64, Cl. 340—347.
Anderson, Robert B.: *See*—
Hofer, Lawrence J. E., and Anderson. 3,140,148.

Anderson, Robert B., and W. R. Kirsch, to Farmer Bros. Co. Decanter with pouring spout and seal. 3,154,227, 10–27–64, Cl. 222—542.

Anderson, Robert E., to Texas Instruments Inc. Method of making low resistance electrical contacts on graphite. 3,119,171, 1–28–64, Cl. 29—155.55.

Anderson, Robert E., to Texas Instruments Inc. Method of alloying an ohmic contact to a semiconductor. 3,158,504, 11–24–64, Cl. 117—213.

Anderson, Robert E. D., and R. J. Projain, to Bell Telephone Laboratories, Inc. Regulated voltage converter circuit. 3,135,909, 6–2–64, Cl. 321—2.

Anderson, Robert E. D., and J. La Duca, to Bell Telephone Laboratories, Inc. Gate circuit having phase shift and storage means effecting energization during a range of values. 3,159,753, 12–1–64, Cl. 307—88.5.

Anderson, Robert F. Adjusting means for a garment. 3,148,377, 9–15–64, Cl. 2—127.

Anderson, Robert G.: *See*—
Stuart, Frank A., and Anderson. 3,131,150.

Anderson, Robert H., to Raytheon Co. Cross guide coupler having a coupling apesture bridged by a diagonal coupling bar. 3,125,731, 3–17–64. Cl. 333—10.

Anderson, Robert I., to Brunswick Corp. Ball return rack. 3,119,615, 1–28–64, Cl. 273—47.

Anderson, Robert J., and D. A. Moline. Self leveling paint can holder attachment for ladders. 3,131,900, 5–5–64, Cl. 248—210.

Anderson, Robert L., and J. M. Rohrig, to United States Steel Corp. Subsurface pump. 3,140,667, 7–14–64, Cl. 103—189.

Anderson, Robert M. Air humidifying apparatus. 3,134,657, 5–26–64, Cl. 55—263.

Anderson, Robert M., and L. A. Demchock, Jr., to General Electric Co. Method and apparatus for loading flash lamps with filamentary combustible material. 3,120,694, 2–11–64, Cl. 29—25.11.

Anderson, Robert P., and B. T. MacKenzie, Jr., to General Electric Co. Recording film having a thermoplastic polyester image receiving layer. 3,118,785, 1–21–64, Cl. 117—211.

Anderson, Robert W.: *See*—
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Anderson, Roger. Fracture tables. 3,135,257, 6–2–64, Cl. 128—84.

Anderson, Rudolph C. Method and mechanism for hoisting and stowing small boats. 3,143,991, 8–11–64, Cl. 114—43.5.

Anderson, Samuel P., and C. B. Lundsager, to E. I. du Pont de Nemours and Co. Process and apparatus for three layer net extrusion. 3,163,691, 12–29–64, Cl. 264—167.

Anderson, Severa B.: *See*—
Anderson, Nelson E. 3,132,235.

Anderson, Theodore C., and D. L. Favin, to Bell Telephone Laboratories, Inc. Battery switching circuit. 3,150,268, 9–22–64, Cl. 307—12.

Anderson, Theodore C., and D. L. Favin, to Bell Telephone Laboratories, Inc. Noise impulse counter for signalling circuits. 3,157,798, 11–17–64, Cl. 307—88.5.

Anderson, Theodore R., to The Glidden Co. Process of producing decorative plastic surfaces. 3,129,110, 4–14–64, Cl. 117—37.

Anderson, Thomas F., to Haveg Industries, Inc. Method of extracting glass fibers. 3,125,476, 3–17–64, Cl. 156—24.

Anderson, Thomas F., and J. H. Lux, to Haveg Industries, Inc. Chassisless tank truck. 3,158,383, 11–24–64, Cl. 280—5.

Anderson, Thomas M., and B. E. Good. Key mounting for musical instruments. 3,145,610, 8–25–64, Cl. 84—380.

Anderson, Thomas P., and R. Beispel, to Microseal Corp. Film mounting assembly. 3,141,275, 7–21–64, Cl. 53—123.

Anderson, Thomas P., and R. Beispel, to Microseal Corp. Film Mounting assembly. 3,141,276, 7–21–64, Cl. 53—123.

Anderson, Thomas P., and R. Beispel, to Microseal Corp. Film record card. 3,147,561, 9–8–64, Cl. 40—158.

Anderson, V. E., Mfg. Co.: *See*—
Anderson, Richard N. 3,157,268.

Anderson, Vincent R.: *See*—
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Anderson, W. Carl, to The Union Metal Mfg. Co. Removable pole step. 3,159,696, 9–22–64, Cl. 182—92.

Anderson, Walter A. Nut cracking device. 3,159,194, 12–1–64, Cl. 146—16.

Anderson, Warren D., to American Brake Shoe Co. Journal bearing. 3,131,006, 4–28–64, Cl. 308—174.

Anderson, Warren L., to Halliburton Co. Directed acoustic velocity logging. 3,136,381, 6–9–64, Cl. 181—.5.

Anderson, Weston A., to Varian Associates. Gyromagnetic resonance apparatus. 3,147,428, 9–1–64, Cl. 324—.5.

Anderson, William E., R. W. Schlienz, and C. P. Friling, to Riegel Paper Corp. Duplex packaging material and method of making same. 3,130,647, 4–28–64, Cl. 93—35.

Anderson, William H.: *See*—
Hanson, Roy R. 3,134,242.
Hanson, Roy R. 3,134,244.
Hanson, Roy R. 3,134,450.
Hanson, Roy R. 3,139,736.

Anderson, William S.: *See*—
Bell, Edward R., and Anderson. 3,137,643.

Andersson, Anders R., and K. Nylund, to Allmanna Svenska Elektriska Aktiebolaget. Insulation for electrical conductors. 3,127,470, 3–31–64, Cl. 174—121.

Andersson, Axel E., deceased; by H. Lindberg, legal representative. Tool means for a rotary debarking machine and mounting means therefor. 3,125,142, 3–17–64, Cl. 144—208.

Andersson, Bror: *See*—
Wehlin, Egon, and Andersson. 3,134,009.

Andersson, Gosta S. Sulky hitch. 3,144,741, 8–18–64, Cl. 54—23.

Andersson, Harry, and G. Mildh, to Svenska Flaktfabriken, Aktiebolaget. Method in soda recovery boiler plants for refeeding dust discharged from an electrostatic precipitator. 3,161,464, 12–15–64, Cl. 23—48.

Andersson, Karl R.: *See*—
Ohlund, John A. I. Andersson, and Wallgard. 3,158,-372.

Andersson, Percy H. A., to Svenska Aktiebolaget Gasaccumulator. Push-button illuminating device. 3,144,643, 8–11–64, Cl. 340—380.

Andersson, Sven B., and J. K. Holdo, to Atlas Copco Aktiebolag. Control devices for motor-driven compressors. 3,122,308, 2–25–64, Cl. 230—138.

Andersson, Sven E. Formwork lock having two parallel locking slots. 3,154,998, 11–3–64, Cl. 85—36.

Anderton Springs Ltd.: *See*—
Westwood, Roy B., and Glendenning. 3,153,493.

Anderton, Walter C. Mechanical pencil with eraser. Re. 25,514, 1–21–64, Cl. 120—22.

Andes, Chester C. Box spring truss. 3,131,405, 5–5–64, Cl. 5—263.

Anding, Andre, to Gesellschaft der Ludw. von Roll'schen Eisenwerke AG. Coupling means, particularly releasable packing for piping or the like. 3,154,326, 10–27–64, Cl. 285—9.

Andis Clipper Co.: *See*—
Andis, Matthew G. 3,136,058.
Andis, Matthew G. 3,136,904.
Andis, Matthew G. 3,160,718.

Andis, Matthew G., to Andis Clipper Co. Hair clipper blade drive in a vibratory type clipper. 3,136,058, 6–9–64, Cl. 30—210.

Andis, Matthew G., to Andis Clipper Co. Hair clipper armature mounting. 3,136,904, 6–9–64, Cl. 310—29.

Andis, Matthew G., to Andis Clipper Co. Reciprocable slide switch for appliances. 3,160,718, 12–8–64, Cl. 200—16.

Andler, Otto A. Chamfering tool. 3,137,208, 6–16–64, Cl. 90—12.

Ando, Koji, ½ to Takeda Pharmaceutical Industries, Ltd. Process for manufacturing chromium treated vaccines. 3,145,144, 8–18–64, Cl. 167—78.

Ando, Ryo: *See*—
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Andole Co.: *See*—
McNeal, Daniel R. 3,116,755.

Andonie S., Luis B. Magnetic cigarette and filter. 3,116,739, 1–7–64, Cl. 131—10.

Andrae, William M. Bulk material handling container. 3,122,276, 2–25–64, Cl. 222—143.

Andranigian, Ashoun M. Amphibious boat trailer. 3,135,975, 6–9–64, Cl. 9—1.

Andras, Julius. Space exploration rocket. 3,137,232, 6–16–64, Cl. 102—49.

András, Károly, A. Dallos, J. Erdèlyi, and S. Toth, to Tavkozlesi Kutato Intezet. Selecting mass spectrometer having substantially doubled resolving power. 3,136,888, 6–9–64, Cl. 250—41.9.

André, Edmond, to V. and C. Salome. Copying device for lathes and the like. 3,132,552, 5–12–64, Cl. 82—14.

Andre Rubber Co. Ltd.: *See*—
Torr, Ralph P. 3,157,731.
Torr, Ralph P. 3,161,721.

Andrea, Andrew G., ½, to M. M. Kennedy. Refrigerating and air conditioning apparatus. 3,130,554, 4–28–64, Cl. 62—7.

Andreassen, Alfred: *See*—
D'Olive, Charles R., Kimball, and Andreassen. 3,133,644.

Andregg, Ernest R., W. Pferd, and R. R. Stokes, to Bell Telephone Laboratories, Inc. Card dialer. 3,124,659, 3–10–64, Cl. 179—90.

Andregg, Ernest R., and L. A. Strommen, to Bell Telephone Laboratories, Inc. Coin telephone control apparatus. 3,146,312, 8–25–64, Cl. 179—6.3.

Andre-Matic Machinery Co.: *See*—
Fahrenbach, Wolfgang B. 3,129,542.

Andren, Rolf B.: *See*—
Sundblad, Gunnar E., and Andren. 3,140,765.

Andreoli, Ferruccio: *See*—
Andreoli, Franco and F. 3,135,551.

Andreoli, Franco and F. Deck-chair with automatic backrest locking device. 3,135,551, 6–2–64, Cl. 297—359.

Andres, Edward J., to Aluminite Mfg. Co. Sliding door, or the like, with floating rollers. 3,120,033, 2–4–64, Cl. 20—19.

Andres, John M., to Space Technology Laboratories, Inc. Angular motion responsive apparatus and method utilizing optically alignable magnetic moments. 3,157,837, 11–17–64, Cl. 324—.5.

Andres, Nickolas: *See*—
Raess, Theodore F., Carder, and Andres. 3,118,460.

Andres, Raymond J., to Motorola, Inc. Stud-mounted rectifier. 3,150,298, 9–22–64, Cl. 317—234.

Andres, Rudolf: *See*—
Fiala, Ernst J. H., and Andres. 3,158,178.

Andresen, Herbert G.: *See*—
Hupka, Walter. 3,152,874.
Andresen, John H., Jr., to Kollsman Instrument Corp. Cabin pressure regulating system. 3,141,399, 7–21–64, Cl. 98—1.5.
Andresen, John H., Jr., to Astek Instrument Corp. Altimeter. 3,154,948, 11–3–64, Cl. 73—386.
Andresen, John H., Jr., to Kollsman Instrument Corp. Fail safe aircraft instrument. 3,160,012, 12–8–64, Cl. 73—384.
Andresen, Jorgen R., to Clevite Corp. Position responsive transducer with a permanent flux barrier. 3,137,812, 6–16–64, Cl. 323—51.
Andresen, Lorenz J.: *See*—
Bogot, Alexander, Andresen, and Hamilton. 3,138,337.
Andress, Harry J., Jr.: *See*—
Gee, Paul Y. C., and Andress. 3,121,057.
Andress, Harry J., Jr., to Socony Mobil Oil Co., Inc. High barium content complex salts of sulfonic acids and method for preparing same. 3,158,572. 11–24–64, Cl. 252—33.
Andress, Harry J., Jr., and P. Y. C. Gee, to Socony Mobil Oil Co., Inc. N-substituted-alkenyl-succinimides in distillate fuels. 3,135,765, 6–2–64, Cl. 260—326.3.
Andress, Harry J., Jr., and P. Y. C. Gee, to Socony Mobil Oil Co., Inc. Stabilized jet combustion fuels. 3,155,463, 11–3–64, Cl. 44—62.
Andress, Harry J., Jr., and P. Y. C. Gee, to Socony Mobil Oil Co., Inc. Inhibited distillate fuels. 3,163,505, 12–29–64, Cl. 44—70.
Andrew Corp.: *See*—
Scheldorf, Marvel W. 3,125,757.
Andrew, Harold B., to Bell Telephone Laboratories, Inc. Correlation means for a direction finding system. 3,145,-341, 8–18–64, Cl. 325—472.
Andrew, Herbert F., and V. D. Poole, to Imperial Chemical Industries Ltd. Dyestuffs having a pyrimidine ring substituted by two halogen atoms and by a cyano group in the 5 position. 3,120,507, 2–4–64, Cl. 260—146.
Andrew, Herbert F., and D. Buckley, to Imperial Chemical Industries Ltd. Monoazo dyestuffs containing a 3,6,8-trisulfonaphthyl diazo component. 3,151,105, 9–29–64, Cl. 260—153.
Andrews, Albert J. Reel handle. 3,153,950, 10–27–64, Cl. 74—546.
Andrews, Alvadore M. Method and apparatus for bonding sheet material. 3,139,365, 6–30–64, Cl. 156—179.
Andrews, Alvadore M. Method and apparatus for producing perforated sheeting and tubes. 3,160,687, 12–8–64, Cl. 264—25.
Andrews, Anatol N. Telephone numbers actuating device. 3,118,020, 1–14–64, Cl. 179—90.
Andrews, Boley A., and L. D. Gore, to The Vendo Co. Coin actuated mechandising apparatus. 3,163,275, 12–29–64, Cl. 194—2.
Andrews, Carroll A., to International Business Machines Corporation. Electronic data processing machine control. 3,162,840, 12–22–64, Cl. 340—172.5.
Andrews, Charles M. Test for cavitoma. 3,157,470, 11–17–64, Cl. 23—230.
Andrews, Edward F. Convertible aircraft. 3,119,577, 1–28–64, Cl. 244—7.
Andrews, Edward G. D., and M. S. Hunt, to Bristol Siddeley Engines Ltd. Container for high pressure gas. 3,132,618, 5–12–64, Cl. 114—20.
Andrews, Ernest G., to Bell Telephone Laboratories, Inc. Magnetic storage circuits. 3,128,452, 4–7–64, Cl. 340—174.
Andrews, Fred A.: *See*—
Krueger, John W., and Andrews. 3,119,805.
Andrews, Harry N.: *See*—
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Andrews, John M., to Cook Electric Co. Permanent magnet motors. 3,124,733, 3–10–64, Cl. 318—138.
Andrews, Julian N., to United Aircraft Products, Inc. Metallic O-ring polishing machine. 3,139,707, 7–7–64, Cl. 51—58.
Andrews, Kenneth J. M., to Hoffmann-La Roche Inc. Dihydrovitamin K monophosphate compounds and preparation thereof. 3.127,434, 3–31–64, Cl. 260—461.
Andrews, Lamont F. Fastening means for railway car grain doors. 3,128,111, 4–7–64, Cl. 292—52.
Andrews, Laurence M., J. Rabinow, and W. Fischer, to Control Data Corp. Reflective scanning projection system. 3,142,224, 7–28–64, Cl. 88—24.
Andrews, Lawrence F. Extra-oral dental retractor. 3,137,-941, 6–23–64, Cl. 32—14.
Andrews, Lewis D., to Stackpole Carbon Co. Device for magnetizing circular magnets. 3,158,797, 11–24–64, Cl. 317—203.
Andrews Paper & Chemical Co., Inc.: *See*—
Jahoda, Edward, and Muller. 3,155,511.
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Andrews, Richard A.: *See*—
Leslie, Harry A., Holbrook, and Andrews. 3,161,123.
Andrews, Richard A., D. J. Rickard, and M. J. Stansbary, to Citrus Equipment Corp. Fruit and vegetable peel-chipping apparatus. 3,123,114, 3–3–64, Cl. 146—3.
Andrews, Rufus A., to Sperry Rand Corp. Combined electromagnet and cover assembly. 3,153,749, 10–20–64, Cl. 317—165.
Andrews, Theodore E., to General Electric Co. Cooking appliance. 3,119,001, 1–21–64, Cl. 219—19.
Andrews, Theodore E., to General Electric Co. Cooking appliance or toaster. 3,152,243, 10–6–64, Cl. 219—405.
Andrews, Weldon R., to Sealth Aero-Marine Co. Door latch. 3,126,218, 3–24–64, Cl. 292—175.
Andrews, William R. Friction driven, steplessly variable speed gearing. 3,148,554, 9–15–64, Cl. 74—196.
Andries, Francis M., J. L. Center, and G. J. Rabalais, to Texas Instruments Inc. Electronic stethoscope. 3,160,-708, 12–8–64, Cl. 179—1.
Andrieu, Robert, to Telefunken Aktiengesellschaft. Stabilization of magnetically recorded color television signals. 3,120,576, 2–4–64, Cl. 178—5.4.
Andriuli, Frank: *See*—
Ely, Charles M., De Luca, and Andriuli. 3,151,983.
Andrus, Jules, to Bell Telephone Laboratories, Inc. Fabrication of semiconductor devices. 3,122,817, 3–3–64, Cl. 29—25.3.
Andrus, Orrin E., to A. O. Smith Corp. Method of bonding metal members. 3,116,548, 1–7–64, Cl. 29—471.5.
Andrychuk, Dmetro, to Texas Instruments Inc. Optical system. 3,138,650, 6–23–64, Cl. 88—1.
Anecki, Jozef L., to Lan-Elec Ltd. Food slicing machines. 3,146,814, 9–1–64, Cl. 143—102.
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Benson, Wilfred Y. 3,126,823.
Ladd, Frederick F., Jr. 3,153,153.
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Sweeney, David F. 3,142,247.
Anello, Louis G., and C. Woolf, to Allied Chemical Corp. Manufacture of aryl diazonium fluorides. 3,160,623, 12–8–64, Cl. 260—141.
Anetsberger Bros., Inc.: *See*—
Anetsberger, Joseph F., and Winterfeldt. 3,124,990.
Di Pietro, Carmelo V. 3,146,693.
Anetsberger, Joseph F., and I. J. Winterfeldt, to Anetsberger Brothers, Inc. Dough cutter mechanism with stripper means. 3,124,990. 3–17–64, Cl. 83—117.
Angehrn, Theodor W., to International Business Machines Corp. Timing ring circuit comprising series multistable multivibrators with feedback paths. 3,149,242, 9–15–64, Cl. 307—88.5.
Angel, Henry R., to United Aircraft Corp. Ground control for helicopters. 3,117,749, 1–14–64, Cl. 244—17.17.
Angele, Wilhelm. Air-screw accelerometer and odometer. 3,148,547, 9–15–64, Cl. 73—490.
Angeli, Nemorino: *See*—
Petronio, Omero G., and Angeli. 3,153,720.
Angelica Uniform Co.: *See*—
Belkin, Nathan L. 3,129,432.
Grimm, James J., and Forry. 3,156,927.
Angelini Francesco, Aziende Chimiche Riunite: *See*—
Palazzo, Giuseppe, and Silvestrini. 3,141,019.
Angell, James: *See*—
Angell, Robert C. and J., Massen, and Vetere. 3,131,883.
Angell, Robert C., deceased; J. Angell, executor, A. Massen, and R. Vetere, to The S. S. White Dental Mfg. Co. Hose retrieving device. 3,131,883, 5–5–64, Cl. 242—107.7.
Angelone, James J. Heat reclaimer for gas fired dryers. 3,157,391, 11–17–64, Cl. 263—33.
Angermaier, Hugo: *See*—
Nitsch, Rudolf, Lohs, Sommer, and Angermaier. 3,150,-244.
Angiolini, John: *See*—
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Angiolini, John T.: *See*—
Wood, Thomas F., and Angiolini. 3,151,174.
Anglers Mfg. Co.: *See*—
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Anglim, Charles E., R. A. Armer, and J. R. Handley, to Calpat Products, Inc. Parking meter time cancellation mechanism. 3.140,580, 7–14–64, Cl. 58—142.
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Anglo-American Extrusion Co.: *See*—
Bridge, Archibald C. 3,144,132.
Anglo Paper Products, Ltd.: *See*—
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Anglo-Transvaal Consolidated Investment Co., Ltd.: *See*—
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Angst, Walter: *See*—
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Angst, Walter, M. Wengryn, J. Goodlet, Jr., L. I. Seifert, and J. V. Ranson, to Kollsman Instrument Corp. Projected tracking display. 3,151,927, 10–6–64, Cl. 346—25.
Angst, Walter, M. Wengryn, J. Goodlet, Jr., and L. I. Seifert, to Kollsman Instrument Corp. Data projector input device. 3,160,462. 12–8–64, Cl. 346—29.
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Woolworth, Richard G. 3,141,422.
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Versen, Kurt. 3,121,259.
Anken Chemical & Film Corp.: *See*—
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Theenhausen, Heinrich, and Siebrasse. 3,162,156.
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Lucanera, Constantino, and Annechiarico. 3,136,997.
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Meystre, Charles, Wettstein, Jeger, Anner, Heusler, and Wieland. 3,121,080.
Wettstein, Albert, Anner, and Ehmann. 3,147,289.
Wettstein, Albert, Anner, Heusler, and Kalvoda. 3,158,-603.
Wettstein, Albert, Anner, Heusler, Kalvoda, Ueberwasser, and Heer. 3,141,016.
Wettstein, Albert, Anner, Heusler, and Wieland. 3,118,-881.
Wettstein, Albert, Anner, and Meystre. 3,118,880.
Annerén, Rolf E., and J. B. Gustafsson, to Atvidaberg-Facit, Aktiebolaget. Manufacturing compound press tools. 3,129,-612, 4–21–64, Cl. 76—107.
Annerhed, Karl B. V.: *See*—
Boman, Karl G., and Annerhed. 3,132,733.
Annett, Donald S.: *See*—
Kauffman, Ivan L., and Annett. 3,122,070.
Annis, Martin, and E. C. Williams, Jr., to American Science and Engineering, Inc. Wave generating apparatus. 3,142,-908, 8–4–64, Cl. 35—19.
Annis, Max R., L. H. Robinson, Jr., and R. H. Friedman, to Jersey Production Research Co. Freeing pipe stuck in a borehole. 3,123,143, 3–3–64, Cl. 166—187.
Annis, Milton E. Ski structure. 3,139,287, 6–30–64, Cl. 280—12.
Annis, Richard R., and J. R. Dorner, to John Oster Mfg. Co. Stator for fractional horsepower motors. 3,161,796, 12–15–64, Cl. 310—215.
Anocut Engineering Co.: *See*—
Malkowski, Leonard. 3,130,140.
Williams, Lynn A. 3,120,482.
Williams, Lynn A. 3,123,545.
Anrep, René: *See*—
Langloys, Remi. 3,154,230.
Anschutz & Co., G.m.b.H.: *See*—
Hintze, Johannes, and Ehrich. 3,162,951.
Anschütz, Otto, and F. Rudolph, to L. & C. Steinmuller, G.m.b.H. Water cooled concentric nozzles for a burner. 3,149,613, 9–22–64, Cl. 122—235.
Ansel, Robert E.: *See*—
Sekmakas, Kazys, Ansel, and Drunga. 3,163,623.
Anselin, Francois, and J. Chenais, to Commissariat a l'Energie Atomique. X-ray diffraction chamber for the study of a single crystal located in a polycrystalline sample. 3,149,228, 9–15–64, Cl. 250—51.5.
Ansingh, Carl H., to P. L. Robertson Mfg. Co. Ltd. Self-tapping wood screw. 3,136,205, 6–9–64, Cl. 85—47.
Anson, Arthur H. Telephone head set cushioning means. 3,119,904, 1–28–64, Cl. 179—178.
Ansor Corp.: *See*—
Chupungco, Estanislao J., Quintos, and Godinez. 3,148,-051.
Anspach, Archie A. Quick detachable connector for light fishing tackle. 3,148,423, 9–15–64, Cl. 24—123.
Anstalt Decotex: *See*—
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Anstalt fur die Entwicklung von Erfindungen und Gewerblichen Anwendlungen Energa: *See*—
Batou, Boris. 3,134,330.
Batou, Boris. 3,156,187.
Anstalt für Montage-Technik: *See*—
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Ansteth, Cleo F., to Lambert Brake Corp. Axially movable, rim grip spring applied, fluid released spot brake with additional release means manually actuated. 3,132,724, 5–12–64, Cl. 188—73.
Ansteth, E. Doris: *See*—
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Anstey, Nigel A., R. E. Green, G. C. Baird, F. W. Hales, and V. V. Graf, to Seismograph Service Corp. Recording apparatus for use in making and interpreting seismographic records. 3,153,771, 10–20–64, Cl. 340—15.5.
Ansul Chemical Co.: *See*—
Reeder, Larry R. 3,122,350.
Ansul Co., The: *See*—
Stevens, George D. 3,151,969.
Antaeus Lineal 1948, Anl Medical Laboratory Division, Inc.: *See*—
Nettleship, Mae B. 3,140,007.
Antalek, John J., to Thompson Ramo Wooldridge Inc. Coupling device. 3,130,350, 4–21–64, Cl. 317—101.
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Antalis, Stanley J., and D. C. Wood, to General Electric Co. Inductive device employing foamed resin thermal barrier. 3,163,838, 12–29–64, Cl. 336—55.
Antcliff, Wesley T. Flexible ski-sled. 3,123,373, 3–3–64, Cl. 280—12.
Anthes, Clifford C., to Union Carbide Corp. Reverse flow jet burner with gas vortex flame holders. 3,118,489, 1–21–64, Cl. 158—7.
Anthes, Clifford C., to Union Carbide Corp. Method and apparatus for providing closed ventilation circuit for automotive crankcases. 3,144,011, 8–11–64, Cl. 123—119.
Anthes, Clifford C., to Union Carbide Corp. Apparatus for providing closed ventilation of automotive crankcases. 3,144,044, 8–11–64, Cl. 137—483.
Anthes, Clifford C., to Union Carbide Corp. Double preheat flame controller. 3,154,089, 10–27–64, Cl. 137—98.
Anthon, Erik W., to Research Specialties Co. Pump construction. 3,120,789, 2–11–64, Cl. 92—206.
Anthon, Erik W., to Research Specialties Co. Centrifuging apparatus. 3,151,073, 9–29–64, Cl. 233—4.
Anthon, Erik W., to Research Specialties Co. Liquid supply apparatus. 3,155,109, 11–3–64, Cl. 137—408.
Anthony, Charles E., and J. W. French, to Westinghouse Electric Corp. Dynamoelectric machine. 3,153,162, 10–13–64, Cl. 310—211.
Anthony, Harry L., and G. K. Bhat, to Wilson Bros. Alloy steels. 3,155,500, 11–3–64, Cl. 75—126.
Anthony, Myron L., to Scully-Jones & Co. Resilient nut for averaging out lead screw error. 3,121,340, 2–18–64, Cl. 74—459.
Anthony, Myron L., to Scully-Jones & Co. Machine tool changer. 3,128,645, 4–14–64, Cl. 77—5.
Anthony, Myron L. Ball bearing lead screw follower. 3,156,-133, 11–10–64, Cl. 74—459.
Anthony, Myron L., to Scully-Anthony Corp. Automatic tool handling apparatus. 3,161,951, 12–22–64, Cl. 29—568.
Anthony, Myron L., and R. F. Gill, Jr., to Scully-Anthony Corp. Method of cold pressure welding electrical enclosure members. 3,139,678, 7–7–64, Cl. 29—470.1.
Anthony, Myron P., to Anthony Pools, Inc. Swimming pool cleaner construction. 3,139,099, 6–30–64, Cl. 134—167.
Anthony Pools, Inc.: *See*—
Anthony, Myron P. 3,139,099.
Anthony, Ralph L. Book cover. 3,140,883, 7–14–64, Cl. 281—34.
Anthony, Silvio V. Caster. 3,161,907, 12–22–64, Cl. 16—18.
Anti, Arthur W.: *See*—
Anderson, Edward E., Hampton, and Anti. 3,142,577.
Antici, Marino. Trailer hitch. 3,140,881, 7–14–64, Cl. 280—478.
Antiles, Leonard, and N. C. Jeckel, to United States Catheter & Instrument Corp. Body cooling apparatus. 3,125,096, 3–17–64, Cl. 128—401.
Antioch College: *See*—
Asakawa, George. 3,131,269.
Antinori, Paul, deceased; P. Antinori, Jr., administrator, ⅓₀ to B. F. and G. A. Garvey. Dampener assembly. 3,135,-689, 6–2–64, Cl. 210—365.
Antinori, Paul, Jr.: *See*—
Antinori, Paul. 3,135,689.
Antkiw, Stephen: *See*—
Tittman, Jay, Nelligan, Antkiw, and Johnson. 3,124,679.
Antognini, Joe: *See*—
Tilles, Harry, and Antognini. 3,126,406.
Antokal, Philip, and M. F. Kritchever, to E. I. du Pont de Nemours and Co. Surface and interior modication of thermoplastic resinous bodies. 3,142,630, 7–28–64, Cl. 204—162.
Anton, Aaron: *See*—
Gilmont, Roger, and Anton. 3,117,448.
Anton, Balogh, K. Alexandru, R. Dumitru, and C. Elena, to The Rumanian Ministry for Petroleum and Chemical Industry. Method of preparing p-nitroacetophenone and its oxime. 3,117,995, 1–14–64, Cl. 260—566.
Anton, Nicholas T. Rotary shaver. 3,116,551, 1–7–64, Cl. 30—43.
Antonevich, Michael, to The Crawford Mfg. Co., Inc. Stop motion mounting for knitting machines. 3,132,495, 5–12–64, Cl. 66—163.
Antonio, Cazemiro M., and J. J. Eagleson, to United States Rubber Co. Printers' gum. 3,147,706, 9–8–64, Cl. 101—401.1.
Antonious, Anthony J. Expandable article storage case. 3,130,823, 4–28–64, Cl. 190—44.
Antonoff, Walter: *See*—
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Antonucci, Carmine J., to Potter Instrument Co., Inc. Drum housing latch assembly. 3,118,369, 1–21–64, Cl. 101—1.
Antonucci, Carmine J., to Potter Instrument Co., Inc. Paper phasing mechanism. 3,136,466, 6–9–64, Cl. 226—111.
Antonucci, Carmine J., to Potter Instrument Co., Inc. Paper gap control in high speed bed and platen presses. 3,155,-032, 11–3–64, Cl. 101—45.
Antonucci, Renaldo M. Coating for the absorption of vibrational energy. 3,117,054, 1–7–64, Cl. 161—160.
Antoszewski, Eugeniusz, to The English Electric Co. Ltd. Temperature compensation of transistor amplifiers. 3,117,-253, 1–7–64, Cl. 317—131.
Antoszewski, Eugeniusz, and J. W. F. Sherriff, to The English Electric Co. Ltd. Electric protective relays. 3,157,825, 11–17–64, Cl. 317—36.
Antoszewski, Eugeniusz, and J. W. F. Sheriff, to The English Electric Co. Ltd. Electrical protective relays. 3,160,788, 12–8–64, Cl. 317—36.

Antraigue, Roger. Wheel balancing means. 3,156,504, 11–10–64, Cl. 301—5.
Antunez, Armand E., Jr. Flush valve. 3,154,794, 11–3–64, Cl. 4—57.
Anzalone, Alfred M., to United States of America, Army. Explosive-resin mixture for non-metallic detonator. 3,121,-394, 2–18–64, Cl. 102—86.5.
Aoki, Kunio, to Daiwa Boseki. Carding engine. 3,144,685, 8–18–64, Cl. 19—105.
Aoki, Kunio, to Daiwa Boseki Kabushiki Kaisha. Carding engine having suction cleaning means between the licker-in and the carding cylinder. 3,144,686, 8–18–64, Cl. 19—105.
Aoki, Kunio, to Daiwa Boseki Kabushiki-Kaisha. Slip draft device in a spinning machine. 3,145,432, 8–25–64, Cl. 19—259.
Aoki, Shigeru: *See*—
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Aoki, Yoshikazu, and T. Kamei, to Tachikawa Research Institute. Process for spinning a high viscosity, high gamma viscose. 3,154,614, 10–27–64, Cl. 264—188.
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Apache Belt Co., Inc.: *See*—
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Apel, Francis N., L. B. Conte, Jr., and H. L. Bender, to Union Carbide Corp. Preparation of bisphenols. 3,153,001, 10–13–64, Cl. 260—2.2.
Apel, John H., and R. J. Beeson, to The Jaeger Machine Co. Material distributing and leveling machine. 3,130,654, 4–28–64, Cl. 94—46.
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Apollo Carlon Pipe Co.: *See*—
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Apollo Metals and Chemical Corp.: *See*—
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Apostol, Chris J. Muscle exercising apparatus. 3,120,954, 2–11–64, Cl. 272—58.
Apotheloz, Robert, to Machine Tool Works Oerlikon, Administration Co. Control means for unarming projectiles. 3,142,225, 7–28–64, Cl. 89—6.5.
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Nickell, Lawrence C., and Fertig. 3,129,484.
Appareils et Evaparateurs Kestner: *See*—
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Apparel, Inc.: *See*—
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Appel, Henry W., G. W. King, and C. A. Washburn, to Smith Kline & French Laboratories. Deflection voltage waveform generator employing transformer with rotatable primary and secondary windings. 3,159,794, 12–1–64, Cl. 328—185.
Appel, Mel, and M. Schnur, to N. J. Thermex Co., Inc. Heating lamp. 3,143,629, 8–4–64, Cl. 219—347.
Appeldorn, Roger H.: *See*—
Kotz, Arthur R., Appeldorn, Grieshaber, Peterson, and Giorgini. 3,163,755.
Appeldorn, Roger H., to Minnesota Mining and Mfg. Co. Overhead projection system. 3,126,786, 3–31–64, Cl. 88—24.
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Borglin, Nils A., and Appelgren. 3,121,652.
Appelt, Weldon F., and F. A. Davis; said Appelt assor. of 50% interest to Alwac International. Elevated track and structure for supporting a coach for movement therealong. 3,147,714, 9–8–64, Cl. 105—145.
Appenzeller, Valentin: *See*—
Küsters, Eduard, and Appenzeller. 3,131,625.
Apple, Eugene F.: *See*—
Ishler, William E., and Apple. 3,124,539.
Applebaum, Sidney, P. W. Howells, and Z. Zenon, to General Electric Co. Automatic gating circuit. 3,155,912, 11–3–64, Cl. 328—108.
Appleby, Donald O., to The Pipe Machinery Co. Set of high speed thread cutting carbide chasers. 3,159,858, 12–8–64, Cl. 10—111.
Applegate, Merlin J.: *See*—
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Appleman, Gabriel: *See*—
Odenwald, William, Appleman, and Hardy. 3,146,129.
Appleman, Leon, and R. H. Eck. Apparatus for producing quartz. 3,142,717, 7–28–64, Cl. 13—6.
Appleman, Leon, and R. H. Eck, to Radiant Electronics Products Corp. Infrared radiant heating oven. 3,155,814, 11–3–64, Cl. 219—407.
Appleton, Arthur I. Explosion proof plug and receptacle. 3,125,394, 3–17–64, Cl. 339—111.
Appleton, Arthur I. Lamp support. 3,130,925, 4–28–64, Cl. 240—52.
Appleton, Arthur I. Flood lamp unit. 3,149,785, 9–22–64 Cl. 240—3.
Appleton, Eric D., to Woods Colchester Ltd. Fan mountings. 3,161,388, 12–15–64, Cl. 248—2.
Appleton, Henry B., to L. B. Holliday & Co. Ltd. Sulphurised vat dyestuffs in solubilised form. 3,118,868, 1–21–64, Cl. 260—128.
Appleton, Henry B., to L. B. Holliday & Co. Ltd. Preparation of solubilised reduced sulphurised vat dyestuffs. 3,141,011, 7–14–64, Cl. 260—128.
Appleton Machine Co.: *See*—
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Appleton, Norman J.: *See*—
Welsh, Herbert F., Appleton, and Silverberg. 3,159,256.
Applied Development Corp.: *See*—
Schwab, Helmut, Beale, and Anderson. Re. 25,595.
Applied Engineering Corp.: *See*—
Callan, John G. 3,159,170.
Applied Physics Corp.: *See*—
Cary, Henry H., and Hawes. 3,131,349.
Applied Power Industries Inc.: *See*—
Flessate, Clarence L., and Pahl. 3,141,494.
Junkins, Edmund J. 3,131,747.
Junkins, Edmund J. 3,131,748.
Junkins, Edmund J. 3,151,396.
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Stewart, Phillip G. 3,139,038.
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Applied Research Laboratories, Inc.: *See*—
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Neuhaus, Hermann. 3,153,144.
Applied Science Laboratories, Inc.: *See*—
Hoover, Thomas B. 3,119,759.
Apri, Eduard V.: *See*—
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Apri, Leida M. and E. V., to Rexall Drug and Chemical Co. Apparatus for opening a bobby pin. 3,162,202, 12–22–64, Cl. 132—1.
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Lopez, Robert. 3,132,619.
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Aqua Matic Inc.: *See*—
Whitlock, Robert A. 3,116,904.
Aquariums Inc.: *See*—
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Arai, Iwao, to Nippon Carbide Kogyo Kabushiki Kaisha. Process for production of melamine. 3,117,969, 1–14–64, Cl. 260—249.7.
Arai, Takeji, to O.M. Ltd. Can-conveying case for a spinning machine. 3,132,461, 5–12–64, Cl. 57—1.
Arak, Henry, to Aquariums Inc. Underground filter. 3,119,-774, 1–28–64, Cl. 210—169.
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Arber, Amihadar, to Electrotone Laboratories, Inc. Low power multi-frequency communication system. 3,118,144, 1–14–64, Cl. 343—200.
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Arbter, Conrad, to G. M. Pfaff, AG. Folding and transferring arrangement for material cut in sewing installations. 3,143,091, 8–4–64, Cl. 112—2.

Arbter, Conrad, and G. Maisch, to G. M. Pfaff, A.G. Combined conveyor and fabric folding device. 3,124,348, 3–10–64, Cl. 270—61.

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Archambault, Maurice, to Ministere des Richesses Naturelles. Process for producing lithium carbonate with concomitant recovery of reactants. 3,131,022, 4–28–64, Cl. 23—63.

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Archer, Erling B. Automatic ice making devices. 3,149,473, 9–22–64, Cl. 62—135.

Archer, Giles A., and L. H. Stornbach, to Hoffmann-La Roche Inc. Process for producing 5-phenyl-1,2-dihydro-3H 1,4-benzodiazepines. 3,131,178, 4–28–64, Cl. 260—239.

Archer, Lee A., and J. S. Kontos, to The Pyle-National Co. Combination air outlet and return with fluorescent lighting means. 3,117,509, 1–14–64, Cl. 98—40.

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Archer, Sydney, to Sterling Drug Inc. 3-aryl-1,5-iminocycloalkanes and preparation thereof. 3,133,073, 5–12–64, Cl. 260—292.

Archer, Sydney, to Sterling Drug Inc. 1-(N,N-dibenzylamino) - 2 - [N′ - (halo - lower - alkanoyl) - N′ - (substituted)] - lower - alkylenediamines. 3,135,794, 6–2–64, Cl. 260—562.

Archer, Sydney, to Sterling Drug Inc. 1-substituted-2-piperazinones and 1-substituted-7-homopiperazinones. 3,146,234, 8–25–64, Cl. 260—268.

Archer, Sydney, and M. R. Bell, to Sterling Drug Inc. 3-(monocarbocyclic aryl)-3-carboxytropanes and esters thereof. 3,120,537, 2–4–64, Cl. 260—292.

Archer, Sydney, and M. R. Bell, to Sterling Drug Inc. 3-(monocarbocyclic aryl)-3-(monocarbocyclic arylhydroxymethyl) tropanes and preparation thereof. 3,134,782, 5–26–64, Cl. 260—292.

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Archer, Sydney, and J. C. Collins, to Sterling Drug Inc. 3-acylamino-7-glycosyloxycoumarins and their preparation. 3,153,035, 10–13–64, Cl. 260—210.

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Archer, Wesley L., to The Dow Chemical Co. Polyphenyl ether stabilizers. 3,151,080, 9–29–64, Cl. 252—51.5.

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Archer, Wesley L., to The Dow Chemical Co. Polyphenyl ether stabilizers. 3,151,082, 9–29–64, Cl. 252—52.

Archer, Wesley L., J. B. Louch, and R. S. Montgomery, to The Dow Chemical Co. Shell mold formulations. 3,149,-090, 9–15–64, Cl. 260—37.

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Arden, Thomas V., and G. W. Merriman, to The Permutit Co. Ltd. Electrodialysis processes and electrodialysis cells. 3,124,522, 3–10–64, Cl. 204—301.

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Ardis, Alan E., and A. A. Vaitekunas, to Socony Mobil Oil Co., Inc. Preparation of isophthalic acid monoester. 3,140,309, 7–7–64, Cl. 260—475.

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Arenhold, Karl-Heinz, to Chlorator G.m.b.H. Measuring device for measuring a fluid flow. 3,140,726, 7–14–64, Cl. 137—557.

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Arimoto, Fred S., to E. I. du Pont de Nemours and Co. Redistribution of alkyl radicals in alkyl lead compositions. 3,151.142, 9–29–64, Cl. 260—437.

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Arline, Samuel B., and R. L. Carlson, to United Aircraft Corp. Flow diverter valve and flow diversion method. 3,134,389, 5–26–64, Cl. 137—14.

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Armbrust, Roy J. Protective apparatus for internal combustion engines. 3,138,144, 6–23–64, Cl. 123—41.15.

Armbruster, Werner, ½ to W. C. Heraeus G.m.b.H., and ½ to Ruhrstahl Aktiengesellschaft. Method and apparatus for degassing liquids in a vacuum. 3,116,999, 1–7–64, Cl. 75—49.

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Armond, Charles V. Water and soap shower spray. 3,134,545, 5–26–64, Cl. 239—312.

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Seymour, James E., and White. 3,150,957.
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Armstrong, Desmond R., and C. H. Turnblom, to Eitel-McCullough, Inc. Coupling from a resonant cavity through a dielectric window to an external loop. 3,131,326, 4–28–64, Cl. 315—39.

Armstrong, Douglas B., to Bell Telephone Laboratories, Inc. Error detecting and correcting system. 3,128,449, 4–7–64, Cl. 340—146.1.

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Armstrong, Philip N., to Hughes Aircraft Co. Two-way data compare-sort apparatus. 3,143,645, 8–4–64, Cl. 235—177.

Armstrong, Robert A., to California Research Corp. Method and apparatus for drilling and working in offshore wells. 3,129,774, 4–21–64, Cl. 175—7.

Armstrong, Robert G., and J. R. Laughlin, to The Ohio Crankshaft Co. Semi-automatic locating, automatic centering induction heating apparatus. 3,133,179, 5–12–64, Cl. 219—10.69.

Armstrong, Robert K., to E. I. du Pont de Nemours and Co. Ignition compositions comprising boron containing salts. 3,126,305, 3–24–64, Cl. 149—77.

Armstrong, Robert K., to E. I. du Pont de Nemours and Co. Composition comprising a hydrazine and a hydrazinium polyhydrodecaborate. 3,149,010, 9–15–64, Cl. 149—36.

Armstrong, Robert W., and D. W. Ricke., to Minneapolis-Honeywell Regulator Co. Follow-up control apparatus for motor. 3,150,304, 9–22–64, Cl. 318—28.

Armstrong, Thomas C., Jr., and B. M. Whitehurst, to Socony Mobil Oil Co. Sulfoaluminate cement. 3,147,129, 9–1–64, Cl. 106—109.

Armstrong, Warren E., to Shell Oil Co. Oxidative dehydrogenation using gold-platinum group metal catalyst. 3,156,735, 11–10–64, Cl. 260—680.

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Armstrong, William P. Self cleaning vibratory dental mirror. 3,137,071, 6–16–64, Cl. 32—69.

Arnaud, Henri, to Societe Anonyme dite: Dosiete des Bruleurs Thermex. Detachable burner mounting. 3,163,-388, 12–29–64, Cl. 248—201.

Arnaud, Louis, and C. Grange. Method for preparing and chemically boiling off the gum of retted flax to allow its ready spinning. 3,116,968, 1–7–64, Cl. 8—139.

Arnaud, Robert, to Compagnie de Saint-Gobain. Apparatus for severing or breaking sheets of glass. 3,137,425, 6–16–64, Cl. 225—93.

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Arndt, Donald N., and C. H. Tuckey, to Walbro Corp. Fuel tank cap. 3,140,794, 7–14–64, Cl. 220—44.

Arndt, Joseph M., Jr., to The Flo-Jo Corp. Portable commode. 3,159,848, 12–8–64, Cl. 4—135.

Arndt, Philip. Cultivator and mulcher. 3,128,831, 4–14–64, Cl. 172—123.

Arndt, Robert E. S., and F. R. Hoar, to Martin-Marietta Corp. Self-feeding mop. 3,123,851, 3–10–64, Cl. 15—546.

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Arneson, Edwin L., to Federal Paper Board Co., Inc. Method of forming a lined carton. 3,124,915, 3–17–64, Cl. 53—27.

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Arneson, Edwin L., to Federal Paper Board Co., Inc. Article carrier. 3,130,861, 4–28–64, Cl. 220—113.

Arneson, Edwin L., to Federal Paper Board Co., Inc. Article carrier. 3,140,797, 7–14–64, Cl. 220—113.

Arneson, Harold E. G. Static ball balancing apparatus and method. 3,136,151, 6–9–64, Cl. 73—66.

Arneson, Harold E. G. Humidity chamber for machine tool. 3,152,426, 10–13–64, Cl. 51—267.

Arneson, Lawrence E., to Federal Paper Board Co., Inc. Apparatus for assembling carrier blanks. 3,130,648, 4–28–64, Cl. 93—36.

Arneson, Lawrence E., to Federal Paper Board Co., Inc. Carton gluing apparatus. 3,134,692, 5–26–64, Cl. 118—1.

Arness, Sam K. Core mill. 3,141,482, 7–21–64, Cl. 144—39.

Arnett, Boyd J. Carton flap-opening apparatus. 3,141,279, 7–21–64, Cl. 53—382.

Arnett, Boyd J. Carton loading apparatus. 3,142,948, 8–4–64, Cl. 53—55.

Arnett, Boyd J. Apparatus for detecting, sorting and orienting articles. 3,153,471, 10–20–64, Cl. 198—31.

Arnett, Burney K., Jr., and R. W. Pitman. Coded tape punching apparatus. 3,124,302, 3–10–64, Cl. 234—45.

Arnold, Arnold F., to Parker Brothers, Inc. Set of building blocks wherein each block has connecting means on three surfaces thereof. 3,139,698, 7–7–64, Cl. 46—25.

Arnold, Arnold F., to Parker Brothers, Inc. Stamp assembly. 3,158,096, 11–24–64, Cl. 101—368.

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Arnold, Charles, Jr., and J. M. Kruse, to E. I. du Pont de Nemours and Co. Thallium, alkali metal and silver on silica catalyst, and its preparation. 3,125,538, 3–17–64, Cl. 252—454.

Arnold, Charles, Jr., J. M. Kruse, and E. L. Reilly, to E. I. du Pont de Nemours and Co. Catalytic process for the preparation of nitriles. 3,157,688, 11–17–64, Cl. 260—465.3.

Arnold, Forrest G., and F. R. Ore, to Collins Radio Co. Log periodic structure feed system. 3,123,827, 3–3–64, Cl. 343—792.5.

Arnold, Frank L.: *See*—
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Arnold, Franz. Mechanical-hydraulic fastening device. 3,147,002, 9–1–64, Cl. 269—24.

Arnold, George B., and H. H. Gross, to Texaco Inc. Furfural solvent separation of aromatics from liquid mixtures. 3,132,093, 5–5–64, Cl. 208—320.

Arnold, George P., F. D. Newcom, P. D. O'Brien, and W. D. Schafer, to United States of America, Atomic Energy Commission. Hydraulic sample changer for tank-type water-cooled nuclear reactors. 3,136,697, 6–9–64, Cl. 176—15.

Arnold, Heinz B., to General Mills, Inc. Fluid resins prepared from epoxidized unsaturated fatty acids or esters. 3,138,566, 6–23–64, Cl. 260—18.

Arnold, Jack H., Jr., and H. J. Jaeger, to Special Devices, Inc. Self-armed and actuated bomb. 3,143,071, 8–4–64, Cl. 102—70.

Arnold, James S., and J. G. Martner, to United States of America. Air Force. Vibration measuring apparatus. 3,121,327, 2–18–64, Cl. 73—71.4.

Arnold, John J., and H. G. Foote, to Amphenol-Borg Electronics Corp. Counting dial. 3,136,294, 6–9–64, Cl. 116—115.

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Arnold, Kenneth W., and R. B. Britton, to Ion Physics Corp. Vacuum system cooling trap. 3,144,756, 8–18–64, Cl. 62—169.

Arnold, Kent B. and P. S. Gauging apparatus for controlling a grinding machine. 3,143,830, 8–11–64, Cl. 51—165.

Arnold, Lawrence F., and W. D. Robb, to Celanese Corp. of America. Method for the preparation of diacyl cyanides. 3,134,803, 5–26–64, Cl. 260—465.4.

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Arnold, Peter, and L. E. Lancy, to The Meaker Co. Apparatus for treating coiled metallic strips. 3,134,387, 5–26–64, Cl. 134—120.

Arnold, Philip H., and R. H. Vehmeier, to Bell Telephone Laboratories, Inc. Register sender circuit. 3,151,220, 9–29–64, Cl. 179—27.

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Arnold, Raymond L. Prefabricated water supply and drain unit for washing machines. 3,148,698, 9–15–64, Cl. 137—360.

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Arnold, Tracy E., and H. P. Worrell, to United States Steel Corp. Apparatus for forming selvages in wire screen cloth. 3,133,560, 5–19–64, Cl. 139—54.

Arnold, Wendelin P. Coin sorting apparatus. 3,135,270, 6–2–64, Cl. 133—3.

Arnold, William B., to Great Lakes Carbon Corp. Process of supporting and cooling shaped hot metal. 3,139,357, 6–30–64, Cl. 148—4.

Arnold, William C., to The National Cash Register Co. Printing control means for accounting machines. 3,127,-504, 3–31–64, Cl. 235—61.9.

Arnold, William E., ½ to Watliff Co. Ltd. Method of manufacturing a rotor for a dynamo-electric machine. 3,122,820, 3–3–64, Cl. 29—155.53.

Arnold, William T. Mobile boat carrier. 3,145,864, 8–25–64, Cl. 214—396.

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Aronin, Lewis R., and A. L. Geary, to United States of America, Atomic Energy Commission. Chromium base alloy possessing high strength at elevated temperatures. 3,137,572, 6–16–64, Cl. 75—176.

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Aronson, Aaron B. Voting machine and design. 3,125,289, 3–17–64, Cl. 235—54.

Aronson, Charles N., to Aronson Machine Co., Inc. Speed-slope control for welding apparatus. 3,140,684, 7–14–64, Cl. 113—124.

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Aroyan, George F., and S. H. Cushner, to Space Technology Laboratories, Inc. Reticle structure for infra-red detecting system. 3,144,555, 8–11–64, Cl. 250—83.3.

Aroyan, Harry J., W. H. Lind, and R. T. Johnson, to California Research Corp. Method of separating methanol from a mixture thereof with water, xylene, and esters. 3,159,553, 12–1–64, Cl. 202—40.

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Arquette, Gordon J., and S. Areimma, to Air Reduction Co., Inc. Water soluble films of vinyl alcohol-vinylalkyl ether vinyl acetate copolymers. 3,161,621, 12–15–64, Cl. 260—85.7.

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Attix, Frank H. New type of free air ionization chamber. 3,118,064, 1–14–64, Cl. 250—83.6.

Attix, Frank H. Photoconductive type ionizing radiation detector. 3,119,016, 1–21–64, Cl. 250—71.5.

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Aubert, Michel, and J. F. Belaieff, to Frame S.A. Rotatable and oscillating water spray head for a dishwashing machine. 3,126,025, 3–24–64, Cl. 134—176.

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Auld, Samuel H., Jr., to Lear Siegler, Inc. Magnetic integrator including hall effect device and unijunction transistor switches for providing step-like flux density. 3,155,-844, 11–3–64, Cl. 307—88.5.
Auld, Samuel H., Jr., K. C. Kramer, and N. H. Tobie, to Lear Siegler, Inc. Automatic landing approach system for aircraft. 3,136,502, 6–9–64, Cl. 244—77.
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Aune, Kenneth E., to United States of America, Army. Missile launch detection circuit. 3,160,795, 12–8–64, Cl. 317—148.5.
Auphan, Michel, to North American Philips Co., Inc. Infrared radiation detection device. 3,141,974, 7–21–64, Cl. 250—83.3.
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Auslender, Leland I., and J. G. Bourne, to Dynamic Frame Corp. Method and apparatus for producing motion pictures. 3,122,964, 3–3–64, Cl. 88—16.
Ausnit, Edgar M. Slider for a pouch and the like. 3,122,-807, 3–3–64, Cl. 24—201.
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Stoffels, Robert E. 3,140,433.
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Automatic Radio Mfg. Co., Inc. : *See—*
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Automatic Sprinkler Corp. of America : *See—*
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Automatic Switch Co. : *See—*
Spinelli, Frank P., and Junghans. 3,153,712.
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Automatic Telephone & Electric Co. Ltd. : *See—*
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Browell, Leslie J., and Denby. 3,156,780.
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Automation Products, Inc. : *See—*
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Auvermann, Harry J., to Texas Instruments Inc. Heterogeneous radiation analysis using a rotating reticle for modulating different portions of a spectral display. 3,151,247, 9–29–64, Cl. 250—226.

Auvil, Carroll K., to Chrysler Corp. Beam positioning system. 3,134,044, 5–19–64, Cl. 315—10.

Auxitrol : *See—*
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Brass, Edward A. 3,150,544.
Brogan, Thomas R., and Lothrop. 3,161,807.
Busby, Lawrence A. 3,147,386.
Camm, John C. 3,122,080.
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Connelly, John R., and Mandeville. 3,130,317.
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Kantrowitz, Arthur R., Riddell, Detra, and Rose. 3,118,-636.
Linder, Bernd, and Ahlstrom. 3,125,847.
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Aven, Manuel, to General Electric Co. Preparation of 11-VI semiconducting compounds by solvent extraction. 3,146,-204, 8–25–64, Cl. 252—62.3.
Avera, Fitzhugh L., to Corn Products Co. Peanut butter and process for making the same. 3,121,015, 2–11–64, Cl. 99—128.
Avera, Fitzhugh L., to Royal Super Ice Co. Refrigeration method. 3,130,163, 4–21–64, Cl. 252—67.
Averbach, Louis H. Umbilical cord ligation device. 3,150,-666, 9–29–64, Cl. 128—326.
Aversa, Joseph. Marking devices. 3,139,066, 6–30–64, Cl. 120—18.
Aversa, Joseph. Cosmetic cases. 3,139,982, 7–7–64, Cl. 206—56.
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Avery, Hazelton H., to Union Tank Car Co. Automatic fluid testing mechanism. 3,138,015, 6–23–64, Cl. 73—61.
Avery, Howard S., to American Brake Shoe Co. Ni-Cr-Co alloys. 3,127,265, 3–31–64, Cl. 75—171.
Avery, Howard S., H. J. Chapin, and C. E. Ridenour, to American Brake Shoe Co. Welding rods. 3,118,760, 1–21–64, Cl. 75—123.
Avery, Howard W., to General Electric Co. Piezoelectric crystal transducer for controlling fluid flow. 3,152,612, 10–13–64, Cl. 137—625.4.
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Avery, Ray S., to Avery Products Corp. Embossing tool with radial tape feed path. 3,155,215, 11–3–64, Cl. 197—6.7.
Avery, Robert C., to Bell Telephone Laboratories, Inc. Telephone system with selective code compression and register recycle. 3,131,262, 4–28–64, Cl. 179—18.
Avery, Robert C., to Bell Telephone Laboratories, Inc. Telephone call progress recording system. 3,157,743, 11–17–64, Cl. 179—8.
Avery, Robert C., and A. Majlinger, to Bell Telephone Laboratories, Inc. Telephone system with selective code compression and register recycle. 3,131,261, 4–28–64, Cl. 179—18.
Avery, Robert C., R. H. Gumley, and A. Majlinger, to Bell Telephone Laboratories, Inc. Translator. 3,156,898, 11–10–64, Cl. 340—172.5.
Avery, Theodore P. Coupling. 3,129,022, 4–14–64, Cl. 285—249.
Avery, Theodore P. Filter. 3,147,220, 9–1–64, Cl. 210—315.
Avery, William E., and R. G. Robinson. Exhaust gas purifier. 3,148,951, 9–15–64, Cl. 23—288.
Avery, William H., to Research Corp. Fluid-solid propulsion unit and method of producing gaseous propellant. 3,136,-119, 6–9–64, Cl. 60—35.4.
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De Graffenried, Albert L. 3,153,739.
Harris, Joel T. 3,127,589.
Avila, Arthur J., S. J. Buzash, and R. E. Thomas, to Western Electric Co., Inc. Bonding device for joining a wire-like member to a part. 3,128,649, 4–14–64, Cl. 78—82.
Avila, Frank C., to General Electric Co. Method for coating a surface of an article with a resin layer. 3,136,650, 6–9–64, Cl. 117—21.
Avis, Donald W., to Pye Ltd. Sensing circuit. 3,136,928, 6–9–64, Cl. 317—148.5.
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Andersen, George L. 3,138,257.
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Demrick, Carl J., Marshall, and Sanborn. 3,145,058.
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Avramito, Maurice, and R. Cebelieu, to Commissariat a l'Energie Atomique. Fuel cartridges for nuclear reactors. 3,152,964, 10–13–64, Cl. 176—81.
Avril, Jean F.: *See*—
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Ax, John H. Interior constructions for jewelry cases. 3,125,-221, 3–17–64, Cl. 206—75.
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Axelrad, Bernard, R. F. Matson, and F. J. Touro, to Freeport Sulphur Co. Method of inhibiting dissolution of calcium sulfate. 3,140,915, 7–14–64, Cl. 23—89.
Axelrood, Seymour L., to Wyandotte Chemicals Corp. Polyurethane-ureas containing urea-linked N-(2-hydroxypropyl) alkylene diamines. 3,148,173, 9–8–64, Cl. 260—75.
Axelsson, Axel B., to Lizenzia A.G. Rotatable body for transfer of moisture or/and heat. 3,155,153, 11–3–64, Cl. 165—8.
Axon, Peter E., and C. Henocq, to Clevite Corp. Tape transport mechanism for magnetic recording and/or reproducing apparatus. 3,137,767, 6–16–64, Cl. 178—6.6.
Axson, Michael, A. Linnert, R. Lyon, and B. W. Robinson, to The Cotton Silk and Man Made Fibres Research Assn. Creeling apparatus. 3,148,842, 9–15–64, Cl. 242—55.1.
Axtell, Willard G., to Shwayder Brothers, Inc. Luggage case. 3.128,856, 4–14–64, Cl. 190—49.
Axthammer, Ludwig, and F. Wossner, to Fichtel & Sachs A.G. Hydropneumatic vehicular suspension unit. 3,147,966, 9–8–64, Cl. 267—64.
Ayaki, Kazuo, to Nippon Electric Co. Ltd. Traveling-wave electronic microwave interaction guide devices. 3,158,-779, 11–24–64, Cl. 315—39.3.
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Glass, Marvin I., and Ayala. 3,120,718.
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Ayers, Buell O., to Phillips Petroleum Co. Spinning band chromatographic column with falling film. 3,162,036, 12–22–64, Cl. 73—23.1.
Ayers, David T., Jr., to Kelsey-Hayes Co. Vehicle brake mechanism with pedal leverage changing means. 3,120,155. 2–4–64, Cl. 91—391.
Ayers, David T., Jr., to Kelsey-Hayes Co. Vehicle brake mechanism with pedal leverage changing means. 3,120,156, 2–4–64, Cl. 91—391.
Ayers, David T., Jr., to Kelsey-Hayes Co. Fluid pressure motor mechanism. 3,126,794, 3–31–64, Cl. 91—391.
Ayers, David T., Jr., to Kelsey-Hayes Co. Vehicle brake mechanism. 3,128,676, 4–14–64, Cl. 91—391.
Ayers, David T., Jr., to Kelsey-Hayes Co. Fluid pressure motor mechanism. 3,143,930, 8–11–64, Cl. 91—391.
Ayers, David T., Jr., to Kelsey-Hayes Co. Fluid pressure motor mechanism. 3,146,679, 9–1–64, Cl. 91—391.
Ayers, David T., Jr., to Kelsey-Hayes Co. Fluid pressure motor mechanism. 3,151,532, 10–6–64, Cl. 91—391.
Ayers, David T., Jr., to Kelsey-Hayes Co. Fluid pressure motor mechanism. 3,152,518, 10–13–64, Cl. 91—391.
Ayers, David T., Jr., to Kelsey-Hayes Co. Fluid pressure motor mechanism. 3,155,012, 11–3–64, Cl. 91—391.
Ayers, David T., Jr., to Kelsey-Hayes Co. Brake operating mechanism. 3,159,975, 12–8–64, Cl. 60—54.6.
Ayer, Donald E., to The Upjohn Co. Process for the preparation of lower alkyl 18-deoxy-18-fluororeserpates and related compounds. 3,118,894, 1–21–64, Cl. 260—287.

Ayer, Donald E., to The Upjohn Co. Process for the preparation of 6-deoxy-6-fluoromorphines, 6-deoxy-6-fluorocodeines, and related compounds. 3,137,701, 6–16–64, Cl. 260—285.

Ayer, Donald E., to The Upjohn Co. 16α,17α-(2-halo-1-dilower-alkylamino-2-haloalkylidenedioxy)-steroids and process for the preparation thereof. 3,153,644, 10–20–64, Cl. 260—239.55.

Ayer, Donald E., to The Upjohn Co. 17α,21-(2-halo-1-dilower-alkyl-amino-2-haloalkylidenedioxy)-steroids and process for the preparation thereof. 3,153,645, 10–20–64, Cl. 260—239.55.

Ayer, Donald R., to Sanders Associates, Inc. Adjustable impedance strip transmission line. 3,117,379, 1–14–64, Cl. 333—84.

Ayer, Donald R., to Sanders Associates, Inc. Transmission line package having transistor disposed between inner conducting strips. 3,133,207, 5–12–64, Cl. 307—88.5.

Ayers, George W., to The Pure Oil Co. Lubricating oil compositions. 3,124,532, 3–10–64, Cl. 252—45.

Ayers, George W., and W. A. Krewer, to The Pure Oil Co. Method of neutralizing oil with diazomethane. 3,123,549, 3–3–64, Cl. 208—180.

Ayers, George W., and W. C. Allinder, to The Pure Oil Co. Reddish liquid product obtained from a petroleum solvent extraction of oxidized Friedel-Crafts acylation derivatives of aromatic petroleum extracts. 3,135,767, 6–2–64, Cl. 260—327.

Ayers, John S., to Jas. H. Matthews & Co. Offset printer for marking small objects. 3,125,949, 3–24–64, Cl. 101—38.

Ayers, John S., to Jas. H. Matthews & Co. Apparatus for printing successive sheets at preselected positions. 3,125,950, 3–24–64, Cl. 101—212.

Ayers, John S., to Jas. H. Matthews & Co. Type roll mounting for offset printers. 3,144,824, 8–18–64, Cl. 101—212.

Ayers, John S., to Jas. H. Matthews & Co. Apparatus for printing on tubes, bars and the like. 3,146,699, 9–1–64, Cl. 101—35.

Aygun, Niyazi: *See*—
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Aykanian, Ardashus A., to Monsanto Chemical Co. Apparatus for biaxial stretching of thermoplastic film. 3,123,854, 3–10–64, Cl. 18—1.

Aykanian, Ardashus A., E. E. Hardy, and G. A. Latinen, to Monsanto Co. Extrusion process. 3,160,688, 12–8–64, Cl. 264—53.

Aylsworth, Kenneth G.: *See*—
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Aylsworth, Selden B., to Westinghouse Air Brake Co. Time element relays. 3,122,618, 2–25–64, Cl. 200—105.

Aymar, Julian R. Mechanical toothbrush. 3,160,902, 12–15–64, Cl. 15—22.

Ayotte, Charles E.: *See*—
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Ayoub, Michael A.: *See*—
Waters, Robert A., and Ayoub. 3,130,574.

Ayre, Fred P., Jr. Bowling fitting ball. 3,162,956, 12–29–64, Cl. 33—174.

Ayres, John E. Disposable gas operated cigarette lighter. 3,154,935, 11–3–64, Cl. 67—7.1.

Ayres, Reginald J., to General Electric Co. Electric lamp base end structure. 3,156,841, 11–10–64, Cl. 313—49.

Ayres, Richard D., to Raymar Construction Co., Inc. Secondary escape hatch attachment for underground fallout or blast shelters. 3,155,057, 11–3–64, Cl. 109—1.

Ayres, Richard H., and H. K. Fox, to Bemis Bro. Bag Co. Bag top closure. 3,141,601, 7–21–64, Cl. 229—62.

Aytes, John G., to Armco Steel Corp. Cylinder head arrangements. 3,137,216, 6–16–64, Cl. 92—171.

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Azbe, Victor J., to Azbe Corp. Calcining apparatus. 3,142,480, 7–28–64, Cl. 263—29.

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Fritz, Gerhard, Uhlig, Neugebauer, and Süs. 3,130,048.
Hoegl, Helmut, and Neugebauer. 3,162,532.
Jons, Kurt. 3,123,501.
Jöns, Kurt, Haas, and Blume. 3,117,030.
Neugebauer, Wilhelm, Süs, Fritz, and Uhlig. 3,130,049.
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Sus, Oskar, and Moller. 3,126,281.
Süs, Oskar, and Schlesinger. 3,127,266.
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Azorlosa, Julian L.: *See*—
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Azorlosa, Julian L., and G. G. Stoner, to General Aniline & Film Corp. Method of treating textile materials. 3,161,538, 12–15–64, Cl. 117—139.5.

Azzarri, Orlando, to Nyby Bruks Aktiebolag. Guide-box for rolling-mills. 3,157,072, 11–17–64, Cl. 80—51.

Azzolari, Guido, to Societe Anonyme Fabrique National d'Armes de Guerre. Device for effecting the narrowing in knitting machines and such like. 3,162,027, 12–22–64, Cl. 66—48.

Azzolari, Guido, to Societe Anonyme Fabrique National d'Armes de Guerre. Thread guiding device for hosiery and similar machines. 3,163,027, 12–29–64, Cl. 66—138.

B & C Metal Stamping Co.: *See*—
Fisher, James T. 3,123,744.
Fisher, James T. 3,152,857.

B.C.N. Design Products Inc.: *See*—
Braun, Samuel. 3,157,278.

B-D Laboratories, Inc.: *See*—
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B & M Prestress Corp.: *See*—
Boduroff, Lultcho, and Meheen. 3,123,879.

B-M-B Co., Inc.: *See*—
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B. & S. Plastic Art, Inc.: *See*—
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BSR Ltd.: *See*—
Guest, Lawrence V. 3,137,772.

BTR Industries Ltd.: *See*—
Tudor, Richard. 3,117,113.

BTU Engineering Corp.: *See*—
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B & W Inc.: *See*—
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B.X. Plastics Ltd.: *See*—
Leese, Leonard. 3,157,713.
Pinner, Solomon H., Smith, Pettit, and Atkinson. 3,125,546.
Smith, Robert R., Mann, and Bevis. 3,121,672.

Baak, Albert E. Bimetallic furnace blower controller switch. 3,138,684, 6–23–64, Cl. 200—122.

Baake, Karl A., to K & H Industries, Inc. Portable fluorescent light. 3,154,252, 10–27–64, Cl. 240—11.4.

Baarson, Robert E., and C. W. Jonaitis, to Armour and Co. Flotation process to produce separate aluminum silicates and zircon concentrates from a heavy mineral beach sand concentrate. 3,117,924, 1–14–64, Cl. 209—166.

Baasner, Wilhelm, to Agfa Aktiengesellschaft. Film feeding, numbering and cutting device. 3,145,649, 8–25–64, Cl. 101—80.

Baasner, Wilhelm, to Agfa Aktiengesellschaft. Photographic printing apparatus. 3,156,172, 11–10–64, Cl. 95—75.

Baasner, Wilhelm, and F. Wagner, to Agfa Aktiengesellschaft. Photographic reproduction apparatus. 3,150,559, 9–29–64, Cl. 88—24.

Baatrup, Johannes V., to Danfoss ved Ing. M. Clausen. Valve device for gas supply to two different points of consumption. 3,129,884, 4–21–64, Cl. 236—1.

Baatrup, Johannes V., to Danfoss ved ingenior Mads Clausen. Combined gas shut-off unit and safety pilot. 3,150,712, 9–29–64, Cl. 158—131.

Babacz, Lewis J., to Teleflex Inc. Cable storage and drive mechanism. 3,162,425, 12–22–64, Cl. 254—175.7.

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Babbe, Arnold O., to Air Logistics Corp. Printed circuit board and method of making the same. 3,143,787, 8–11–64, Cl. 29—155.5.

Babbit, Samuel. Deflector assembly for inboard power boats. 3,130,541, 4–28–64, Cl. 60—31.

Babbitt, John F., to Continental Air Filters, Inc. Multipleated air filter. 3,158,458, 11–24–64, Cl. 55—499.

Babbitt Pipe Co., Inc.: *See*—
Pratt, Robert C. 3,125,478.
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Babbs, Frederick W., to Cox of Watford Ltd. Seat structures. 3,140,896, 7–14–64, Cl. 297—367.

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Babcock, David L., R. P. Ferry, and R. A. Kirk, to Eastman Kodak Co. Motion picture camera with drive means controlled by film cassette. 3,120,781. 2–11–64, Cl. 88—16.

Babcock, David L., A. G. Stimson, and J. L. Byrd, to Eastman Kodak Co. Signal apparatus for photographic cameras. 3,127,823, 4–7–64, Cl. 95—10.

Babcock Electronics Corp.: *See*—
Juptner, Wilhelm F. 3,124,671.

Babcock, Herbert L. Motorcycle tachometer drive unit. 3,126,749, 3–31–64, Cl. 74—15.2.

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Babcock, Roger M.: *See*—
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Baver, Clyde B., and Frendberg. 3,117,538.
Breazeale, William M., Edlund, and Mong. 3,140,980.
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Carpenter, Otis R. 3,120,869.
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Danko, John A., and Hurst. 3,153,402.
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Babey, George, to Harvey Hubbell, Inc. Electrical wiring device. 3,118,718, 1–21–64, Cl. 339—219.
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Babits, Victor A. Parametric target for infrared television pickup tubes. 3,144,575, 8–11–64, Cl. 313—65.
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Babule, René, G. Lemesle, R. Martin, P. Rouge, and S. Y. Gif, to Commissariat a l'Energie Atomique. Nuclear reactor moderator structures. 3,157,582, 11–17–64, Cl. 176—84.
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Bach, Ricardo O., to Beryllium Metals and Chemical Corp. Process for producing beryllium chloride from beryllium oxide material. 3,146,066, 8–25–64, Cl. 23—87.
Bach, Ricardo O., and W. W. Boardman, Jr., to Lithium Corp. of America, Inc. Process for producing anhydrous lithium peroxide by the use of a substantially water-immiscible organic liquid. 3,147,075, 9–1–64, Cl. 23—184.
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Bachelet, Albert E., F. B. Crowson, W. V. K. Large, G. A. Martingano, R. A. Previte, T. C. Rehm, and T. A. Smith, to Bell Telephone Laboratories, Inc. Teletypewriter switchboard. 3,133,152, 5–12–64, Cl. 178—75.
Bachelet, Gilbert H., and D. Bruiet, to Air France. Bearing retaining sleeve. 3,118,711, 1–21–64, Cl. 308—236.
Bachelet, Gilbert H., and D. Bruiet, to Air France. Tools for use in crimping the holding races of roller or ball bearings. 3,128,810, 4–14–64, Cl. 153—2.
Bachhuber, Theodore J. Shotgun shell reloader. 3,157,086, 11–17–64, Cl. 86—27.
Bachi, Robert W. Solenoid with molded plunger guide. 3,119,954, 1–28–64, Cl. 317—186.
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Bachman, Gustave B., and R. M. Schisla, to Purdue Research Foundation. Direct acylation of heterocyclic bases. 3,120,527, 2–4–64, Cl. 260—279.
Bachman, Gustave B., and T. Hokama, to Purdue Research Foundation. Production of beta-hydroxyalkyl ethers of oximes. 3,123,639, 3–3–64, Cl. 260—566.
Bachman, William S. Weight discriminating automatic bird feeder. 3,145,690, 8–25–64, Cl. 119—51.
Bachmann, Bernhard, to Georg Fischer Aktiengesellschaft. Hydraulic one-edge copying device for machine tools. 3,153,983, 10–27–64, Cl. 91—37.
Bachmann, Fritz, to Varta Aktiengesellschaft. Sealed alkaline storage battery with hydrogen absorbing electrode. 3,117,033,1–7–64, Cl. 136—6.
Bachmann, John F., to The Bendix Corp. Clutter residue reduction for MTI radar systems. 3,121,224, 2–11–64, Cl. 343—7.7.
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Back, Carl F., to The Sanderson Cyclone Drill Co. Hoist control. 3,144,998, 8–18–64, Cl. 242—157.1.
Back, Carl F., to The Sanderson Cyclone Drill Co. Folding brace construction. 3,161,262, 12–15–64, Cl. 189—11.
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Back, Frank G., and W. H. Schrader; said Schrader assor. to said Back. Control device for zoom lens systems. 3,158,076, 11–24–64, Cl. 95—45.
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Backer, William R., to Norton Co. Protective device for grinding machines. 3,129,538, 4–21–64, Cl. 51—166.
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Bade, Heinz E., to J. F. Behrens. Stapling tool, especially guiding means for the driver thereof. 3,140,492, 7–14–64, Cl. 1—44.4.
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Bader, Alfred E., and A. F. Umgelter, to Daimler-Benz Aktiengesellschaft. Automatic controls for machine tools. 3,124,986, 3–17–64, Cl. 82—3.
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Badewitz, Charles J., to The Ryan Aeronautical Co. Method of reducing velocity vector angular error of a space vehicle when thrust is applied. 3,135,479, 6–2–64, Cl. 244—1.
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Badia, Frank A., to The International Nickel Co., Inc. Nickel brass having a relatively low liquidus temperature. 3,132,939, 5–12–64, Cl. 75—157.5.
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Baehr, Edward F., to United States of America, National Aeronautics and Space Administration. Channel-type shell construction for rocket engines and the like. 3,120,101, 2–4–64, Cl. 60—35.6.
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Baer, Charles E., and S. A. Kelsey, said Kelsey assor. to O. V. Miller. Apparatus and process for neutralizing acid mine drainage water. 3,142,639, 7–28–64, Cl. 210—60.
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Bagby, John P., to Bell & Howell Co. Magnetic override mechanism for camera iris. 3,116,674, 1–7–64, Cl. 95—64.
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Bager, Sven E. O., to Telefonaktiebolaget L M Ericsson. Radar apparatus. 3,134,973, 5–26–64, Cl. 343—10.
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Gailliot, Paul, Baget, and Sarret. 3,156,693.
Baggeson, Russell E., to Burgess-Manning Co. Filter retainer for filter cell. 3,150,945, 9–29–64, Cl. 55—493.
Baggett, Roy, Jr. Paint roller. 3,159,905, 12–8–64, Cl. 29—110.
Baggett, William M., and T. E. Woods, to Monsanto Chemical Co. Method and apparatus for treating yarn. 3,120,027, 2–4–64, Cl. 18—8.
Baggett, William M., J. A. Hafford, and G. B. Hughey, to Monsanto Co. Hollow tire cord. 3,160,193, 12–8–64, Cl. 152—359.
Baggett, William T. Fish stringer attachment. 3,161,334, 12–15–64, Cl. 224—7.
Bagley, Alan S., and M. W. Brooksby, to Hewlett-Packard Co. Frequency counter for interval measurement. 3,133,189, 5–12–64, Cl. 235—92.
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Swasey, Samuel E., and Bagley. 3,156,843.
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Bagli, Jehan F., to American Home Products Corp. Synthesis of equilin. 3,162,655, 12–22–64, Cl. 260—397.4.
Baglow, Denis V., R. W. Johnson, and A. E. Block, to Block & Anderson Ltd. Photo copying machines. 3,120,793, 2–11–64, Cl. 95—77.5.
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Bagno, Samuel M. Lamp illuminating network. 3,135,953, 6–2–64, Cl. 340—310.
Bagno, Samuel M. Plethysmograph. 3,149,627, 9–22–64, Cl. 128—2.1.
Bagno, Samuel M., to Specialties Development Corp. Magnetic intruder and fire detector. 3,161,742, 12–15–64, Cl. 200—87.
Bagno, Samuel M., and J. H. Fasal, to Specialties Development Corp. Temperature compensated sensitivity control network for disturbance detecting apparatus. 3,149,318, 9–15–64, Cl. 340—258.
Bagnoli, Eno, and S. E. Isakoff, to E. I. du Pont de Nemours and Co. Temperature control system for heat treatment of running yarn lines. 3,161,484, 12–15–64, Cl. 34—114.
Baguley, George A., to Painton & Co. Ltd. Control arms for electronic, electrical and other instruments. 3,136,176, 6–9–64, Cl. 74—480.
Bagwell, Marshall U., to The Texas Pipe Line Co. Automatic line selector. 3,116,503, 1–7–64, Cl. 15—104.06.
Bagwell, Marshall U., to The Texas Pipe Line Co. Pressure operated by-pass valve for pumping apparatus. 3,118,466, 1–21–64, Cl. 137—491.
Bagwell, Marshall U., to The Texas Pipe Line Co. Pipe line valve position indicator. 3,148,701, 9–15–64, Cl. 137—556.
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Broecker, Ernst R. A. F. 3,145,704.
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Magnusson, Kurt A A. 3,147,367.
Mejyr, Carl-Anker. 3,126,000.
Mejyr, Carl-Anker. 3,141,473.
Bahe, Lowell W., to Allis-Chalmers Mfg. Co. Rectifying devices. 3,142,594, 7–28–64, Cl. 148—33.4.
Bahe, Lowell W., to Allis-Chalmers Mfg. Co. Method of manufacturing rectifying devices. 3,148,091, 9–8–64, Cl. 148—1.5.
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Bahnsen, Ralph J., and J. F. Dirac, to International Business Machines Corp. Data processing system with look ahead feature. 3,156,897, 11–10–64, Cl. 340—172.5.
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Bahr, Wilhelm, A. Bruder, and P. Schwake, to Haver & Boecker. Rotating packing machine for the filling of granular or mealy materials into valve bags. 3,138,217, 6–23–64, Cl. 177—58.
Bahring, Herbert, H. Schwerer, and K. Brammer, to Fernseh G.m.b.H. Winding control apparatus. 3,151,820, 10–6–64, Cl. 242—55.12.
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Coates, Arthur D., and Baicy. 3,120,459.
Baier, Frederick L., to Bethlehem Steel Co. Coating for linear material and method of application. 3,159,513, 12–1–64, Cl. 156—49.
Baier, John P., W. E. Fritz, and H. E. Smith, to General Motors Corp. Hermetically sealed solenoid assembly. 3,142,790, 7–28–64, Cl. 317—191.
Baier, Ludwig S. Fall-out shelter. 3,138,124, 6–23–64, Cl. 109—1.
Baier, Richard, to American Smelting and Refining Co. Continuous casting. 3,124,855, 3–17–64, Cl. 22—200.1.
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Bailey, Albert C. Landing platform. 3,128,066, 4–7–64, Cl. 244—114.
Bailey, Albert D., to United States of America, Army. Radio direction finding system. 3,118,141, 1–14–64, Cl. 343—113.
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Bailey, Billy R., to Paramount Industries, Inc. Latch support for lighting fixtures. 3,118,621, 1–21–64, Cl. 240—51.11.
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Hagerty, Andrew T., Bailey, and Brenneman. 3,151,715.
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Bailey, Donald L., V. B. Jex, and W. T. Black, to Union Carbide Corp. Organo functional cyclosiloxane polymers. 3,119,855, 1–28–64, Cl. 260—448.2.
Bailey, Earl E. Turning device for rotatable shafts. 3,149,621, 9–22–64, Cl. 123—179.
Bailey, Francis M., to General Electric Co. Object identification system. 3,163,860, 12–29–64, Cl. 343—6.5.
Bailey, Frederick E., Jr., and H. G. France, to Union Carbide Corp. Polymerization of epoxides. 3,128,256, 4–7–64, Cl. 260—2.
Bailey, Frederick E., Jr., and H. G. France, to Union Carbide Corp. Preparation of catalysts for the polymerization of epoxides. 3,141,854, 7–21–64, Cl. 252—428.
Bailey, Frederick E., Jr., and H. G. France, to Union Carbide Corp. Polymerization of epoxides. 3,144,417, 8–11–64, Cl. 260—2.
Bailey, George B., to The Garrett Corp. Method and apparatus for attenuating helical acoustic pressure waves. 3,144,913, 8–18–64, Cl. 181—46.
Bailey, George C., to The Thomas & Betts Co., Inc. Device for tensioning bundling straps. 3,154,114, 10–27–64, Cl. 140—106.
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Bailey, Herman H., to W. R. Grace & Co. Mechanical fiber flexing device. 3,136,146, 6–9–64, Cl. 68—43.
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Oehrli, John W., and Bailey. 3,163,052.
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Cox, Robert P., and Bailey. 3,138,509.
Bailey, Knight V., to The Bendix Corp. Position control transducer and system. 3,122,665, 2–25–64, Cl. 310—26.
Bailey, Louis E., to William F. Shepherd, Inc. Vending machine with hingedly and longitudinally mounted shelves. 3,137,411, 6–16–64, Cl. 221—90.
Bailey, Louis G., M. J. Brau, and A. R. Hilton, to Texas Instruments Inc. Glass and method of making it. 3,154,424, 10–27–64, Cl. 106—47.
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David, Gordon W., and Green. 3,132,670.
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Durham, Edwin, and Weaver. 3,161,180.
Flesor, Chris N., Hunter, Imsland, and McEvoy. 3,132,661.
Hornfeck, Anthony J., and Louis. 3,141,994.
Louis, John R. 3,139,524.
MacLain, Manuel A. 3,162,833.
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Vollmer, Harden D., Jr. 3,138,000.
Wax, Martin P. 3,116,961.
Werme, John V. 3,135,873.
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Bailey, Phillip L., to Thompson Ramo Wooldridge Inc. Removable hub insert. 3,131,956, 5–5–64, Cl. 287—52.7.
Bailey, Ralph C., J. P. Lomenzo, and S. J. Salzman, to Bernz O Matic Corp. Self-cancelling parking meter. 3,141,292, 7–21–64, Cl. 58—142.
Bailey, Richard H., to General Electric Co. Taping head. 3,137,985, 6–23–64, Cl. 57—13.
Bailey, Richard H., and W. F. Renick. Window alarm type lock. 3,136,290, 6–9–64, Cl. 116—67.
Bailey, Ronald W. Skiing device. 3,123,844, 3–10–64, Cl. 9—310.
Bailey, Theodore L., and E. R. Barron, to United States of America, Army. Flexible armored body garment. 3,130,414, 4–28–64, Cl. 2—2.5.
Bailey, Todd D. Hauling device for vehicles. 3,160,364, 12–8–64, Cl. 242—95.
Bailey, Vincent R., and R. H. Isenhower, to Perry Printing Process Co. Composing machine. 3,139,791, 7–7–64, Cl. 88—24.
Bailey, William D., and D. R. Schurman, to Textron Inc. Method of manufacture of metal articles. 3,122,831, 3–3–64, Cl. 29—556.
Bailey, William F., to Hazeltine Research, Inc. Electronic previewer for color reproduction processes. 3,123,666, 3–3–64, Cl. 178—5.2.
Bailin, Moses M., to Canadian Technical Tape Ltd. Unified paper backing for use in pressure sensitive tapes. 3,127,284, 3–31–64, Cl. 117—155.
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Bain, George W., to International Telephone and Telegraph Corp. Combined plural carrier electrostatic printing and display system. 3,148,600, 9–15–64, Cl. 95—1.7.
Bainbridge, Marvin, and M. Tsutsumi, to Maui Pineapple Co., Ltd. Pineapple corer and sizer. 3,151,644, 10–6–64, Cl. 146—6.
Bainco, Ernest W, and L. H. Franklin, to Components for Research, Inc. High voltage cable terminal. 3,141,061, 7–14–64, Cl. 174—75.
Baines, Michael W., R. Fielden, and W. Tertiuk, to Smith Kline & French Laboratories. Guanidino derivatives of coumaran and indane. 3,153,057, 10–13–64, Cl. 260—346.2.
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Bair, Herbert Q., to The B. F. Goodrich Co. Inflatable hatch cover for military tank. 3,131,598, 5–5–64, Cl. 89—36.
Bair, Herbert Q., to The B. F. Goodrich Co. Sealing closure. 3,162,917, 12–29–64, Cl. 24—205.1.
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Dewey, Davis R., II, and Kopito. 3,146,340.
Fitzmaurice, John A. 3,124,636.
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Saunderson, Jason L., and Du Bois. 3,163,698.
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Baird, David W.: *See*—
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Baird, William, D. K. Lawman, W. E. Stephen, and C. D. Weston, to Imperial Chemical Industries Ltd. Process for the coloration of cellulose textile materials with water-soluble azo dyestuffs containing sulphonyl fluoride groups. 3,131,021, 4–28–64, Cl. 8—41.
Baird, William, and J. W. Batty, to Imperial Chemical Industries Ltd. Process for preparing β-hydroxyalkyl sulphonium salts. 3,159,682, 12–1–64, Cl. 260—607.
Baird, William G., Jr., C. A. Lindstrom, Jr., A. L. Besse, Jr., and D J. D'Entremont, to W. R. Grace & Co. Method of treating plastics. 3,126,680, 3–31–64, Cl. 53—3.
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Baittinger, Jack R., ½ to J. J. Dougherty. Composite pile fixture. 3,134,236, 5–26–64, Cl. 61—53.
Baittinger, Jack R., ½ to J. J. Dougherty. Prestressed composite pile. 3,145,540, 8–25–64, Cl. 61—53.
Bajenski, Edmund, and C. Varvaro, to Goodyear Aerospace Corp. Strain gage for high elongation. 3,118,301, 1–21–64, Cl. 73—88.5.
Bajer, Jacques, to Ford Motor Co. Engine mount. 3,139,152, 6–30–64, Cl. 180—64.
Bajer, Jacques, to Ford Motor Co. Suspension system having controlled wheel recession. 3,151,877, 10–6–64, Cl. 280—124.
Bajulaz, Roger. Pleasure submersible boat. 3,129,681, 4–21–64, Cl. 114—16.
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Baker, Alan G., to J. S. Kamborian. Dispensing apparatus for thermoplastic adhesive. 3,130,876, 4–28–64, Cl. 222—146.
Baker, Alan G., to J. S. Kamborian. Adhesive dispensing apparatus for shoe machines. 3,146,126, 8–25–64, Cl. 118—2.
Baker, Alan R., to National Research Development Corp. Detection or analysis of gases. 3,117,843, 1–14–64, Cl. 23—254.
Baker, Ambrose D., to United States of America, Navy. Multiple amplifier circuit for proximity fuze. 3,131,388, 4–28–64, Cl. 343—7.
Baker, Arthur F.: *See*—
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Baker, Basil O., and R. J. Wheldon, to The M-O Valve Co. Ltd. Gas-filled electric discharge devices. 3,130,344, 4–21–64, Cl. 313—220.
Baker, Benjamin P.: *See*—
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Baker, Cameron A., to United States of America, Agriculture. Mounting samples of loose fiber for array preparation and measurement. 3,139,052, 6–30–64, Cl. 112—410.
Baker, Carl E., to Phillips Petroleum Co. Roof drain for floating roof tank. 3,154,214, 10–27–64, Cl. 220—26.
Baker, Charles B. Fastening device. 3,136,020, 6–9–64, Cl. 24—248.
Baker, Charles H.: *See*—
Baker, Vance A. 3,121,422.
Baker, Charles H., to Cleveland Pneumatic Industries, Inc. Fluid engine having a pressurized crankcase. 3,138,918, 6–30–64, Cl. 60—24.
Baker, Charles N., and C. H. Richards. Meat hook stabilizer. 3,124,081, 3–10–64, Cl. 104—89.
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Baker, Charles T., to Vermont Marble Co. Can end press with positive work stopping and holding means. 3,116,658, 1–7–64, Cl. 83—278.
Baker, Chester R. Garbage can rack. 3,130,837, 4–28–64, Cl. 211—83.
Baker, Cletus L., to Titanium Metals Corp. of America. Bend test apparatus. 3,142,174, 7–28–64, Cl. 73—100.
Baker, Clyde F.: *See*—
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Baker, Clyde F., R. Bougie, and L. F. Shaw, to Borg-Warner Corp. Ice cube maker having bin control. 3,163,017, 12–29–64, Cl. 62—137.
Baker Co., Inc., The: *See*—
Potenzo, Frank A., and Shearer. 3,160,404.
Baker, David E.: *See*—
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Baker, David K., to Baker Perkins Holdings Ltd. Manufacture of bread dough. 3,125,968, 3–24–64, Cl. 107—30.
Baker, David K., to Winston Electronics Ltd. Vagotomy test apparatus. 3,128,760, 4–14–64, Cl. 128—2.1.
Baker, David K., to Baker Perkins Holdings Ltd. Manufacture of bread dough. 3,142,268, 7–28–64, Cl. 107—68.
Baker, David S. Body temperature tempering device. 3,159,158, 12–1–64, Cl. 126—208.
Baker, Don R., and T. B. Williamson, to Stauffer Chemical Co. Controlling microorganisms employing sulfonylacetonitriles. 3,142,616, 7–28–64, Cl. 167—22.
Baker, Don R., and T. B. Williamson, to Stauffer Chemical Co. Method of killing nematodes and fungi with trichloroacrylonitrile. 3,145,138, 8–18–64, Cl. 167—22.
Baker, Donald C., to J. I. Case Co. Access hole cover securing means. 3,125,239, 3–17–64, Cl. 220—35.
Baker, Edgar G., to Gentex Corp. Swimming aid. Re. 25,601, 6–16–64, Cl. 9—337.

Baker, Edward G.: *See*—
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Baker, Eugene E.: *See*—
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Baker, Gene W. Carrying and dispensing device for spool mounted wire. 3,134,555, 5–26–64, Cl. 242—86.5.
Baker, George T., deceased, by Midland Bank Executor and Trustee Co. Ltd., administrator, to British Telecommunications Research Ltd. Telephone or like systems. 3,117,-187, 1–7–64, Cl. 179—18.
Baker, George W., to York Research Corp. Miniature arc discharge tube. 3,138,732, 6–23–64, Cl. 313—213.
Baker, Harold E., E. H. Dodge, and M. N. Gilbert, Jr., to Sylvania Electric Products Inc. Electric switch assembly including indicator and mounting means. 3,156,805, 11–10–64, Cl. 200—167.
Baker, Harold W., Jr. Rotary motor and pump. 3,121,398, 2–18–64, Cl. 103—140.
Baker, Hayward R., and C. R. Singleterry, to United States of America, Navy. Water displacing rust preventive composition. 3,138,558, 6–23–64, Cl. 252—395.
Baker, Herbert K. Variable speed transmission. 3,150,542, 9–29–64, Cl. 74—688.
Baker, J. T., Chemical Co., The: *See*—
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Musel, Robert J., and Harlow. 3,123,259.
Vandegaer, Jan E. 3,135,723.
Baker, Jacob G. Vibratory conveyor. 3,123,203, 3–3–64, Cl. 198—220.
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Baker, John G., to Baker Mfg. Pressure sensing device. 3,123,689, 3–3–64, Cl. 200—81.
Baker, John G. Pitless well construction. 3,136,362, 6–9–64, Cl. 166—85.
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Seene, David L., Way, and Baker. 3,119,130.
Baker, John J., and W. G. Benjey. Fluid coupling apparatus. 3,132,667, 5–12–64, Cl. 137—599.2.
Baker, Joseph S., E. E. Colby, and T. W. Hurley, to The Procter & Gamble Co. Method for making peanut spread. 3,127,272, 3–31–64, Cl. 99—128.
Baker, Joseph W.: *See*—
Newallis, Peter E., Chupp, and Baker. 3,149,143.
Newallis, Peter E., Chupp, and Baker. 3,159,534.
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Stenseth, Raymond E., and Baker. 3,120,557.
Baker, Joseph W., and R. E. Stenseth, to Monsanto Chemical Co. Substituted alkyl halophenyl carbonates. 3,120,554, 2–4–64, Cl. 260—463.
Baker, Joseph W., and R. E. Stenseth, to Monsanto Chemical Co. Alkoxycarbonylalkyl halophenyl carbonates. 3,120,-555, 2–4–64, Cl. 260—463.
Baker, Joseph W., and R. E. Stenseth, to Monsanto Chemical Co. Halophenyl chloroformate derivatives. 3,120,556, 2–4–64, Cl. 260—463.
Baker, Joseph W., and R. E. Stenseth, to Monsanto Co. Halogenated α-phenylene carbonates. 3,152,146, 10–6–64, Cl. 260—340.2.
Baker Mfg.: *See*—
Baker, John G. 3,123,689.
Baker, Melvin R., and B. H. Dellinger, to Comet Corp. Blank twistable to form a blowgun dart. 3,138,382, 6–23–64, Cl. 273—106.5.
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Muse, John F., and Bigelow. 3,131,764.
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Myers, William D. 3,131,765.
Myers, William D. 3,136,364.
Wents, Kenneth F., and Leutwyler. 3,136,368.
Baker, Paul A., to Bell Telephone Laboratories, Inc. Phase-modulation transmitter. 3,128,342, 4–7–64, Cl. 178—66.
Baker, Paul A., to Bell Telephone Laboratories, Inc. Data communication system. 3,128,343, 4–7–64, Cl. 178—67.
Baker, Paul E., S. B. Jones, and D. O. Seevers, to California Research Corp. Nuclear magnetism well logging. 3,135,-912, 6–2–64, Cl. 324—.5.
Baker Perkins Holdings Ltd.: *See*—
Baker, David K. 3,125,968.
Baker, David K. 3,142,268.
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Baker, Reese. Personalized label kit. 3,123,384, 3–3–64, Cl. 282—1.
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Baker, Richard S., and I. Goldstein, to North American Aviation, Inc. Bearingless pump. 3,122,101, 2–25–64, Cl. 103—87.
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Baker, Robert S., ⅛ each to J. L. Cone, Jr., and C. W. and D. P. Cone. Apparatus for molding pre-stressed concrete members. 3,128,521, 4–14–64, Cl. 25—41.
Baker, Robert S., to J. L. Cone, Jr., and C. W. and D. P. Cone. Split bolt anchor. 3,128,666, 4–14–64, Cl. 85—2.4.
Baker, Russell A. Protective head covering. 3,125,763, 3–24–64, Cl. 2—177.
Baker, Sidney X., and A. A. Oakley, to The Bendix Corp. Cable termination. 3,122,046, 2–25–64, Cl. 83—600.
Baker, Stanley W.: *See*—
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Baker, Willard C., to Ford Motor Co. Infinitely variable, geared hydrostatic power transmission mechanism. 3,132,-533, 5–12–64, Cl. 74—687.
Baker, Willard E.: *See*—
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Baker, William O., to Swimquip, Inc. Diving board structure. 3,125,340, 3–17–64, Cl. 272—66.
Baker, William R., to United States of America, Atomic Energy Commission. Plasma heating and confining system. 3,125,492, 3–17–64, Cl. 176—2.
Baker, William R., to United States of America, Atomic Energy Commission. Plasma switching pinch tube. 3,156,-623, 11–10–64, Cl. 176—8.
Baker, William R., and K. Halbach, to United States of America, Atomic Energy Commission. Contra-rotating plasma system. 3,132,996, 5–12–64, Cl. 176—7.
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Bakker, Willem, to American Enka Corp. Valve mechanism with actuator. 3,153,498, 10–20–64, Cl. 222—506.
Bakula, Robert G.: *See*—
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Bakunin, Maurice I. Catamenial receptacle. 3,157,180, 11–17–64, Cl. 128—285.
Balaban, John A. Automatic hydraulic transmission. 3,153,909, 10–27–64, Cl. 60—53.
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Kuris, Arthur, and Balamuth. 3,123,951.

Balamuth, Lewis, to Caritron Ultrasonics Inc. Method of ultrasonic removal of material by fatigue failure. 3,145,450, 8–25–64, Cl. 29—81.

Balamuth, Lewis, and A. Kuris, to Cavitron Ultrasonics Inc. Magnification of the amplitude of magnetostrictive radial vibrations. 3,139,543, 6–30–64, Cl. 310—26.

Balan, Samuel, to Grumman Aircraft Engineering Corp. Vibration isolation mount. 3,155,361, 11–3–64, Cl. 248—358.

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Balash, Donald J., to The Dow Chemical Co. Core winding start device. 3,162,388, 12–22–64, Cl. 242—19.

Balassa, Leslie L. Stable metal chelate preparations. 3,131,048, 4–28–64, Cl. 71—1.

Balassa, Leslie L. Foam arrestor for mixing machine. 3,154,296, 10–27–64, Cl. 259—95.

Balassa, Leslie L. Homogenizer and mixer for liquids. 3,163,405, 12–29–64, Cl. 259—97.

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Balbaschewski, Alexander, to Ford Motor Co. Hydrostatic-mechanical power transmission mechanism. 3,127,792, 4–7–64, Cl. 74—687.

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Baldik, Frank C., and D. Straszewski. Telephone line clearing relay. 3,150,237, 9–22–64, Cl. 179—81.

Balding, George H., to Kaiser Industries Corp. Electronic visual cue generator. 3,117,300, 1–7–64, Cl. 340—27.

Balding, George H., to Kaiser Industries Corp. Electronic visual cue generator. 3,118,128, 1–14–64, Cl. 340—27.

Balding, George H., to United States of America, Navy. Symbol generator circuit. 3,122,607, 2–25–64, Cl. 178—6.

Baldo S., Luis. Light socket. 3,139,315, 6–30–64, Cl. 339—99.

Baldrey, John A., to Texas Instruments Inc. Method of making a silicon article by use of a removable core of tantalum. 3,139,363, 6–30–64, Cl. 156—3.

Baldridge, Bernard H., to General Electric Co. System for remote radar operation. 3,151,323, 9–29–64, Cl. 343—6.

Baldridge, Billie R., to Douglas Aircraft Co., Inc. Cruciform rubber support ring for plastic cap rings. 3,149,849, 9–22–64, Cl. 277—165.

Balducci, Walter O., to The American Hardware Corp. Means for securing relatively movable members. 3,130,994, 4–28–64, Cl. 287—99.

Baldur, Roman, to Dominion Engineering Works Ltd. Fluid machines. 3,140,074, 7–7–64, Cl. 253—142.

Baldwin, Alan W. Hydraulic pump. 3,148,624, 9–15–64, Cl. 103—44.

Baldwin, Arnold J.: *See*—
Ahlefeld, Edwin H., Jr., Baldwin, Hold, Rapetski, and Scharer. 3,154,808.

Baldwin, Arthur F.: *See*—
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Baldwin, Brian E., and A. J. Mix, Jr., to Manufacturing Process Laboratories, Inc. Tube cleansing apparatus. 3,135,274, 6–2–64, Cl. 134—147.

Baldwin, Charles A. Portable pneumatic conveyor. 3,155,431, 11–3–64, Cl. 302—23.

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Baldwin, Jesse A., Schroeder, and Ender. 3,145,170.

Baldwin, Jesse A., R. A. Schroeder, and A. L. Ender, to J. A. Baldwin Mfg. Co. Oil filter cartridges. 3,145,169, 8–18–64, Cl. 210—232.

Baldwin, Jesse A., R. A. Schroeder, and A. L. Ender, to J. A. Baldwin Mfg. Co. Oil filter cartridges. 3,145,170, 8–18–64, Cl. 210—232.

Baldwin, John B., to Schulz Tool and Mfg. Co. Automatically indexing wheel and hub. 3,129,977, 4–21–64, Cl. 301—9.

Baldwin, John B., to Thiokol Chemical Corp. Elastomeric test specimen. 3,153,929, 10–27–64, Cl. 73—103.

Baldwin, John E., and E. L. Capener, to United States of America, Navy. Process for bonding salt to metal ballistic rod. 3,156,579, 11–10–64, Cl. 117—62.2.

Baldwin-Lima-Hamilton Corp.: *See*—
Boni, Frank, Jr., Otten, and Hummel. 3,126,949.
Brown, Edwin C., and Brownell. 3,144,138.
Cooksey, John C., Rowlands, and Gardner. 3,159,734.
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Farley, Linwood N. 3,135,112.
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Madsen, Walter M. 3,128,085.
Mulford, Stewart F., and Durst. 3,160,571.
Peterson, Charles W. 3,124,769.
Ris, Kenneth B., and Mulford. 3,142,381.
Ruge, Arthur C. 3,139,598.
Spier, Hans G. 3,117,026.
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Vogel, Eric T. 3,116,839.
Vogel, Eric T., and Hammon. 3,116,833.
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Baldwin, Miles S., to Westinghouse Electric Corp. Automatic reclosers. 3,150,287, 9–22–64, Cl. 317—22.

Baldwin-Montrose Chemical Co. Inc. (Baldwin Division): *See*—
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Baldwin, Philip S., ½ to Fiat Societa per Azioni. Master cylinders for hydraulic transmission systems. 3,141,303, 7–21–64, Cl. 60—54.6.

Baldwin, Ralph W., to Oxy-Catalyst, Inc. Preparation of catalyst pellets having sustained hardness and attrition resistance. 3,146,210, 8–25–64, Cl. 252—455.

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Baldwin, Robert R., J. R. Lowry, and W. J. Ohan, Jr., to General Foods Corp. Process for roasting coffee. 3,149,977, 9–22–64, Cl. 99—71.

Baldwin, Ross O., Jr. Mechanical gun. 3,142,294, 7–28–64, Cl. 124—15.

Bale, Alton G., Jr., and G. F. Turner, to Wisconsin Electrical Mfg. Co., Inc. Automatic control for cumulative delivery of materials. 3,125,176, 3–17–64, Cl. 177—80.

Bales, George. Valved fluid coupling. 3,139,110, 6–30–64, Cl. 137—614.04.

Bales, Royal A. Handle. 3,155,414, 11–3–64, Cl. 294—58.

Balestrini, Roberto H. Cylinder locks. 3,151,477, 10–6–64, Cl. 70—421.

Balfour, Henry, & Co. Ltd.: *See*—
Bureau, Alfred C. 3,117,844.

Balfour, Lionel M. J. Pivotal joints. 3,130,995, 4–28–64, Cl. 287—101.

Baliker, John J., Jr., K. B. Cofer, L. H. Griffin, and D. M. Sheets, to Shell Oil Co. Synthesis of glycidyl ethers of polyhydric phenols. 3,121,727, 2–18–64, Cl. 260—348.6.

Balinski, Henry A., to United States Gypsum Co. Clip construction. 3,144,733, 8–18–64, Cl. 50—481.

Balise, Peter L., Jr., to United States of America, Navy. Underwater platform. 3,161,255, 12–15–64, Cl. 181—.5.

Balitsky, Nicolay V., S. I. Volodin, R. P. Zmijevsky, D. P. Savchenko, G. A. Selezniova, I. L. Nepomniashtshy, and V. T. Tapeshkin, to Konstruktorskoje Bureau Koksohimmash Giprokoksa. Mechanism for cleaning coke-oven door frames and shells. 3,146,475, 9–1–64, Cl. 15—21.

Balke, Rodney W., J. M. Drees, and R. L. Lichten, to Bell Aerospace Corp. Rotary wing aircraft pylon mounting. 3,163,378, 12–29–64, Cl. 244—17.27.

Balke, Roy L., to General Electric Co. Method of insulating and retaining conductors in slots. 3,157,939, 11–24–64, Cl. 29—155.5.

Ball Brothers Co., Inc.: *See*—
Levengood, William C. 3,130,098.

Ball Damping Devices, Inc.: *See*—
Grasser, Arthur P. 3,128,330.

Ball, Eric, to Continuous Casting Co. Ltd. Continuous casting. 3,143,776, 8–11–64, Cl. 22—57.2.

Ball, Eugene E., Jr., to Lockheed Aircraft Corp. Tape shielded nozzle. 3,134,223, 5–26–64, Cl. 60—35.6.

Ball, Frank J., W. K. Dougherty, and H. H. Moorer, Jr., to West Virginia Pulp and Paper Co. Method of making synthetic resin from lignin and an epoxide and resulting product. 3,149,085, 9–15–64, Cl. 260—17.5.

Ball, Gaines L., and J. C. Gaskins, to Batson-Cook Co. Creel brake assembly. 3,117,737, 1–14–64, Cl. 242—129.8.

Ball, George L., III: *See*—
Wilson, Glenn R., and Ball. 3,129,277.

Ball, Gerald V.: *See*—
Colthurst, Edward W., Dennis, Ball, and Baum. 3,130,853.

Ball, Harry. Machine for shaping a fabric sheet unit to form a sheath for storage battery plates. 3,158,897, 12–1–64, Cl. 18—4.

Ball, James A., to The Morris Plan Co. of Cedar Rapids. Surface grinder. 3,128,578, 4–14–64, Cl. 51—55.

Ball, Karl D. Cleaning device for meat chopper plates. 3,120,236, 2–4–64, Cl. 134—100.

Ball, Nelson G.: *See*—
Cram, Ernest M., and Ball. 3,130,579.

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Ball, Thomas M., to Chrysler Corp. Return flow carburetor. 3,127,454, 3–31–64, Cl. 261—36.

Ball, Thomas M., to Chrysler Corp. Carburetor choke control. 3,133,532, 5–19–64, Cl. 123—119.

Ball, Thomas M., to Chrysler Corp. Return flow carburetor. 3,161,700, 12–15–64, Cl. 261—27.

Ball, Thomas Z., and W. D. Trevorrow, to Atlas Chemical Industries, Inc. Delay compositions for delay electric detonators. 3,118,799, 1–21–64, Cl. 149—37.

Ball, Vincent W., to United States of America, Army. Automatic exposure control for cameras. 3,116,670, 1–7–64, Cl. 95—10.

Ball, Vincent W., to United States of America, Army. Automatic exposure control for camera. 3,124,049, 3–10–64, Cl. 95—10.

Ballantine, David S.: *See*—
Mesrobian, Robert B., Ballantine, and Metz. 3,131,139.

Ballantine, James S. Heat exchanger. 3,120,868, 2–11–64, Cl. 165—155.

Ballantyne, Bob B. Base with radially movable clamp for detachably mounting stones. 3,129,569, 4–21–64, Cl. 63—29.

Ballantyne, Earnest R., to Wayne Chemical Co. Floor cleansing device. 3,120,676, 2–11–64, Cl. 15—527.

Ballard, Delbert L., to Jonker Business Machines, Inc. Flying spot data input or readout for superimposable card information retrieval system. 3,133,786, 5–19–64, Cl. 346—110.

Ballard, Denis G. H., J. D. Griffiths, and J. Watson, to Courtaulds, Ltd. Wet spinning of birefringent solutions of optically active polypeptide. 3,121,766, 2–18–64, Cl. 264—202.

Ballard, Hori, Ltd.: *See*—
Ballard, Hori H. 3,130,516.

Ballard, Hori H., to Hori Ballard Ltd. Fishing tackle. 3,130,516, 4–28–64, Cl. 43—43.13.

Ballard, James W.: *See*—
Ostrofsky, Bernard, and Ballard. 3,163,733.

Ballard, Neiland H., to Studebaker Corp. Liquid dispenser for washing machines. 3,150,511, 9–29–64, Cl. 68—23.

Ballard, Victor H. Basketball game. 3,137,503, 6–16–64, Cl. 273—1.5.

Ballard, Walter H., 1/10 to H. E. Mestern. Hair drier with a desiccant. 3,148,957, 9–15–64, Cl. 34—95.

Ballastran Corp.: *See*—
Kiltie, Ordean. 3,132,318.

Ballauer, Alb C.: *See*—
Stulen, Frank L., and Ballauer. 3,123,144.

Ballentine, Frank M., Jr.: *See*—
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Ballhausen, Carl. Method of and apparatus for the generation of pressure inside an enclosed cavity. 3,135,995, 6–9–64, Cl. 18—16.

Ballin, Gene, to Dosamatic Dropper Corp. Metering dispenser for collapsible containers. 3,125,250, 3–17–64, Cl. 222—96.

Ballin, Gene, to Dosamatic Dropper Corp. Bottle dropper and closure. 3,135,302, 6–2–64, Cl. 141—24.

Ballin, Gene, to Dosamatic Dropper Corp. Liquid dispensing container. 3,139,121 6–30–64, Cl. 141—24.

Ballinger, Peter, to California Research Corp. Gasoline containing organometal antiknock compound. 3,143,399, 8–4–64, Cl. 44—69.

Ballinger, Peter, to California Research Corp. Gasoline containing organolead compound. 3,143,400, 8–4–64, Cl. 44—69.

Ballman, Albert A., R. C. Linares, Jr., and L. G. G. Van Uitert, to Bell Telephone Laboratories, Inc. Rare earth orthovanadate optical maser materials. 3,152,085, 10–6–64, Cl. 252—301.4.

Ballmer, Willi, to F. Sandmeir. Method of manufacturing a foamed-rubber article. 3,136,832, 6–9–64, Cl. 264—255.

Ball-O-Matic, Inc.: *See*—
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Ballou, Nathan E., and E. M. Scadden. Method of solvent extraction. 3,125,410, 3–17–64, Cl. 23—14.5.

Ballu, Louis H. D. M. Armor plate. 3,157,090, 11–17–64, Cl. 89—36.

Balluff, Helmut, to Siebelwerke-ATG G.m.b.H. Apparatus for controlling aircraft. 3,161,377, 12–15–64, Cl. 244—52.

Balmer, Hansjorg: *See*—
Bond, Jack B., Gasparac, and Balmer. 3,133,708.

Balmer, Hansjörg, to Nordberg Mfg. Co. Lock structure for crusher adjustment. 3,142,449, 7–28–64, Cl. 241—286.

Balmer, Hansjorg, and R. J. Gasparac, to Nordberg Mfg. Co. Bowl clamping mechanism for cone crushers. 3,140,835, 7–14–64, Cl. 241—286.

Balmer, James G., Jr.: *See*—
Lewis, William G., and Balmer. 3,154,356.

Balmer, Vere E., and W. McKinley, to American Machine & Foundry Co. Dough molding device. 3,138,120, 6–23–64, Cl. 107—8.

Balocca, Alfred E., to American Can Co. Composite container and method of making same. 3,142,433, 7–28–64, Cl. 229—51.

Balogh, Roy O., to McCabe-Powers Body Co. Rotatable derricks for use on a truck or other similar mobile platform. 3,154,198, 10–27–64, Cl. 212—35.

Balogh, Roy O., and R. G. Bakula, to McCabe-Powers Body Co. Single boom derrick units. 3,154,199, 10–27–64, Cl. 212—35.

Balsam, Davis M., I. Sheroff, and A. Shatz. Crimping machine. 3,158,189, 11–24–64, Cl. 153—1.

Balsbaugh, Sydney. Liquid test cell. 3,123,751, 3–3–64, Cl. 317—246.

Balsiger, Harold E.: *See*—
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Price, Ralph E., and Balsiger. 3,121,423.

Balsiger, Harold E., to Landis Tool Co. Pressure clamps for ring-like workpieces. 3,132,454, 5–12–64, Cl. 51—236.

Balsiger, Harold E., to Landis Tool Co. Apparatus for grinding flexible workpieces. 3,153,884, 10–27–64, Cl. 51—165.

Balsiger, Harold E., to Landis Tool Co. Fluid-actuated holding device for grinding machines. 3,159,953, 12–8–64, Cl. 51—237.

Balster, Eugene H.: *See*—
Smith, Harold R., Weissenberger, Knowlton, Raiklen, Liley, and Balster. 3,131,975.

Balster, Frederick W., to Wagner Electric Corp. Check valve assembly. 3,127,906, 4–7–64, Cl. 137—493.

Baltayan, Ara M.: *See*—
Midlock, Bernard J., and Baltayan. 3,120,640.

Baltensperger, Paul, J. Dobsa, H. Hartmann, and A. Eidinger, to Brown, Boveri & Cie, Aktiengesellschaft. Short-circuit limiting device. 3,152,282, 10–6–64, Cl. 317—11.

Baltes, Josef, O. Wechmann, and F. Weghorst, to Harburger Fettchemie Brinckman & Mergell G.m.b.H. Process for catalytic isomerization of compounds of unconjugated polyethenoid acids. 3,162,658, 12–22–64, Cl. 260—405.6.

Balthazor, Bernard E., to Buddy L Corp. Sprung axle for toy vehicle. 3,120,081, 2–4–64, Cl. 46—221.

Balthazor, Bernard E., to Buddy L Corp. Toy vehicle with sprung axles. 3,121,294, 2–18–64, Cl. 46—221.

Balthazor, Bernard E., to Buddy L Corp. Toy vehicle with coil spring suspension. 3,162,978, 12–29–64, Cl. 46—221.

Baltimore Aircoil Co., Inc.: *See*—
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Baltimore Box Co.: *See*—
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Baltimore Gas and Electric Co.: *See*—
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Baltimore Spice Co., The: *See*—
Meusel, Jerome A., and Brunn. 3,139,346.
Meusel, Jerome A., and Brunn. 3,148,071.

Baltz, Albert L., to Eagle Range & Mfg. Co. Removable oven door mechanism. 3,124,121, 3–10–64, Cl. 126—191.

Baltz, George M. Process and apparatus for grinding a shell milling cutter. 3,156,074, 11–10–64, Cl. 51—122.

Balz, Barry E. Cutting tool. 3,118,226, 1–21–64, Cl. 30—1.

Balz, Gunther W., to Roto-Finish Co. Finishing apparatus and method. 3,161,993, 12–22–64, Cl. 51—163.

Balz, Gunther W. Finishing and polishing method. 3,161,997, 12–22–64, Cl. 51—316.

Balzer, Harold M.: *See*—
Stucky, Mabel G., and Balzer. 3,139,696.

Bamberger, Eric N., and F. E. Spinelli, to General Electric Co. Means for preventing fretting erosion. 3,143,383, 8–4–64, Cl. 308—241.

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Bamford, Charles F., to Premier Gear and Machine Works. Double chuck for a veneer lathe. 3,132,673, 5–12–64, Cl. 144—209.

Bamford, Donald G., to Massey-Ferguson Inc. Tractor differential lock. 3,142,203, 7–28–64, Cl. 74—710.5.

Bamford, J. C., (Excavators) Ltd.: *See*—
Kelly, Alec J. 3,130,843.
Kelly, Alec J. 3,156,488.

Bamford, William R., to Imperial Chemical Industries Ltd. New polymeric materials of boronate-polyisocyanate reaction products. 3,156,673, 11–10–64, Cl. 260—77.5.

Bammesberger, Karl: *See*—
Kaden, Willy, and Bammesberger. 3,134,294.

Bammesberger, Karl, W. Straub, and P. Ungnadner, to Agfa Aktiengesellschaft. Method and apparatus for superimposing an additional recording upon an existing sound record. 3,157,749, 11–17–64, Cl. 179—100.2.

Banaszak, Lloyd J., to United States of America, Navy. Gas operated ignition switch for a multi-stage rocket propelled missile. 3,136,872, 6–9–64, Cl. 200—82.

Banca, Maggio C., and R. B. Barnes, to Barnes Engineering Co. Black body radiation sources. 3,138,697, 6–23–64, Cl. 219—353.

Bancel, Paul A., to Ingersoll-Rand Co. Control system for internal combustion engine. 3,138,147, 6–23–64, Cl. 123—103.
Banco, Aktiebolaget: *See*—
Broecker, Ernst R. A. F., and Mejyr. 3,117,595.
Bancroft, Joseph, & Sons Co.: *See*—
Hushebeck, Henry R. 3,139,322.
Kim, Charles W., Shattuck, and Langway. 3,132,462.
Mattson, Robert E. 3,135,039.
Rainard, Leo W., and Shattuck. 3,137,055.
Rainard, Leo W., and Shattuck. 3,160,923.
Shattuck, Ewart H. 3,129,485.
Shattuck, Ewart H., and Langway. 3,121,935.
Bancroft, Thomas, S. Walker, J. E. Lucas, and G. B. Ducker, to Blackburn Aircraft Ltd. Tracers for automatic machine tools. 3,148,590, 9–15–64, Cl. 90—62.
Bandag Inc.: *See*—
Carver, Roy J. 3,136,673.
Bande, Hans-Wilhelm, to Dr. Lehfeldt, & Co. G.m.b.H. Material testing process and apparatus. 3,129,581, 4–21–64, Cl. 73—67.8.
Bandelin, Fred J., to Strong Cobb Arner, Inc. Effervescent composition containing polyvinylpyrrolidone. 3,136,692, 6–9–64, Cl. 167—57.
Bander, Otto-Erich, W. Berndt, L. Hornig, W. Riemenschneider, W. Schmidt, and U. Schwenk, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for oxidizing olefins to aldehydes and ketones. 3,154,586, 10–27–64, Cl. 260—597.
Band-It Co.: *See*—
Evans, Jack M. 3,129,919.
Bandy, Kenneth, L., and E. H. Rohrer, to The McKay Machine Co. Apparatus for cutting metal strip into sheets. 3,162,-079, 12–22–64, Cl. 83—287.
Bane, William R. Process of patching hoofs. 3,118,449, 1–21–64, Cl. 128—336.
Banerian, Gordon, to Aerojet-General Corp. Re-entry turbine. 3,138,363, 6–23–64, Cl. 253—66.
Banet, Leo, and A. Hirschman. Thermal radiation explosion locator. 3,124,685, 3–10–64, Cl. 250—83.
Bangert, John T., to Bell Telephone Laboratories, Inc. Signal delay system. 3,135,932, 6–2–64, Cl. 333—29.
Bango, Joseph, to Kay Musical Instrument Co. Bass bow holder. 3,128,664, 4–14–64, Cl. 84—329.
Bangs, John R., and F. Maud, to The Budd Co. Articulated radioactive source. 3,121,168, 2–11–64, Cl. 250—106.
Bangs, Ralph C., to Coro, Inc. Quick-detachable mounting for jewelry drop ornament. 3,116,616, 1–7–64, Cl. 63—13.
Bank of America National Trust and Savings Association: *See*—
Warfel, George H., and Thorson. 3,144,989.
Bank of California, The, National Association: *See*—
Rambo, William H. 3,147,842.
Banke, Henry C., to Clarin Mfg. Co. Chair. 3,127,218, 3–31–64, Cl. 297—248.
Banker, John J., W. A. Drab, and H. F. Mohs, to The Babcock & Wilcox Co. Vapor generator. 3,118,431, 1–21–64, Cl. 122—333.
Banko, George. Precision work-piece positioning cross-slide. 3,133,385, 5–19–64, Cl. 51—240.
Banko, George. Counter balancing apparatus for machine tool reciprocating tables. 3,137,104, 6–16–64, Cl. 51—166.
Banko, George. Optical viewer and grinding wheel dresser. 3,143,831, 8–11–64, Cl. 51—165.
Bankowski, Raymond A., to The Regents of the University of California. Avian pneumoencephalitis virus vaccine and method of making. 3,155,588, 11–3–64, Cl. 167—78.
Banks, Arthur N., to Navy, Army and Air Force Institutes. Method and apparatus for the automatic brewing of tea and like beverages. 3,146,108, 8–25–64, Cl. 99—76.
Banks, Charles R.: *See*—
Brown, Harry B., and Banks. 3,157,839.
Banks, Clarence K., and L. M. Edwards, to M & T Chemicals Inc. Novel process for preparing antimony oxychloride. 3,148,943, 9–15–64, Cl. 23—85.
Banks, Edward J.: *See*—
Banks, John and E. J. 3,157,199.
Banks, Ephraim, N. H. Riederman, and H. W. Schleuning, to Polytechnic Institute of Brooklyn. Process for producing thin film ferrimagnetic oxides. 3,148,079, 9–8–64, Cl. 117—62.
Banks, Eric J.: *See*—
Creighton, John P., and Banks. 3,131,539.
Banks, George W. Metal clad soft seat valve closure assembly. 3,160,390, 12–8–64, Cl. 251—334.
Banks, John and E. J. Disc valve. 3,157,199, 11–17–64, Cl. 137—625.11.
Banks, Melville R., to Walton Laboratories, Inc. Humidifier. 3,130,245, 4–21–64, Cl. 261—29.
Banks, Melville R., to Walton Laboratories, Inc. Humidifier assembly. 3,130,246, 4–21–64, Cl. 261—29.
Banks, Raymond, to Walton Laboratories Inc. Humidifier. 3,155,746, 11–3–64, Cl. 261—29.
Banks, Robert H.: *See*—
Odum, William T., Banks, and Preston. 3,161,028.
Banks, Waldo H., to Draper Corp. Bobbin magazine. 3,159,-961, 12–8–64, Cl. 57—1.
Banks, William B., to Automation Products, Inc. Method of and apparatus for determining physical properties of materials. 3,145,559, 8–25–64, Cl. 73—32.
Banks, William P., to Jersey Production Research Co. Lubricant compositions. 3,118,839, 1–21–64, Cl. 252—25.
Bankston, Lester T., and H. P. Jenkins, Jr., to United States of America, Navy. Hydrodynamic electromagnetic propulsion. 3,138,129, 6–23–64, Cl. 114—20.
Banlier, Paul, to Chimiotex S.A. Yarn package support. 3,139,242, 6–30–64, Cl. 242—129.5.
Banner Metals, Inc.: *See*—
Smith, Cecil F. 3,149,729.
Banner Mining Co.: *See*—
Brace, Eldred C., and Horton. 3,148,130.
Bannister, Brian: *See*—
Schroeder, William, Lewis, Hoeksema, Eble, and Bannister. 3,125,567.
Bannister, Brian, to The Upjohn Co. 9-D-psicofuranosylpurine derivatives. 3,126,372, 3–24–64, Cl. 260—211.5.
Bansen, Inc.: *See*—
Seneca, Harry. 3,122,553.
Bantjes, Adriaan, to E. I. du Pont de Nemours and Co. Production of 2,4-dicyanothiophene. 3,162,650, 12–22–64, Cl. 260—329.
Banus, Mario D., to Metal Hydrides Inc. Method for preparing metal aluminum hydride compounds. 3,124,417, 3–10–64, Cl. 23—14.
Banville, Roger O.: *See*—
St. Pierre, Arsene J. 3,162,415.
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Kovács, István. 3,159,265.
Banyu Pharmaceutical Co., Ltd.: *See*—
Kawaguchi, Hiroshi, Okanishi, Miyaki, Ohmori, Matsuzaki, Koshiyama, and Tsukiura. 3,142,671.
Banzhaf, Donald H., to Harley-Davidson Motor Co. Governor assembly. 3,146,631, 9–1–64, Cl. 74—472.
Baptist, Harold L.: *See*—
Baptist, James N. and H. L. 3,149,364.
Baptist, James N., to W. R. Grace & Co. Process for preparing poly-β-hydroxybutyric acid. 3,121,669, 2–18–64, Cl. 195—47.
Baptist, James N. and H. L. Attachable cleaning device. 3,194,364, 9–22–64, Cl. 15—506.
Bar, Kurt: *See*—
Glathe, Manfred, and Bar. 3,117,109.
Bara, Mary B. Eraser cleaner. 3,127,714, 4–7–64, Cl. 51—187.
Barabach, Boris, J. Berger, G. Dupuy, J. Lacour, and V. Raievski, to Commissariat a l'Energie Atomique. Reactor pile unit for studying materials under radiation. 3,147,-189, 9–1–64, Cl. 176—62.
Barabas, János, K. Láng, and L. Zselyonka. Microscope substage illuminating device. 3,161,717, 12–15–64, Cl. 88—40.
Barabas, John J., to Castro Convertible Corp. Reclining chair. 3,147,038, 9–1–64, Cl. 297—89.
Barach, Joseph L.: *See*—
Mahoney, William R., and Barach. 3,126,009.
Barager, Alfred T. Roller separator for ball bearings. 3,124 396, 3–10–64. Cl. 308—200.
Barainsky, Rudolf, to Dyna-Plastik-Werk G.m.b.H. Slot nozzle apparatus for producing thermoplastic foils, sheets and the like. 3,123,859, 3–10–64, Cl. 18—12.
Baran, Joseph G., and E. Czernobil, to Advance Transformer Co. Ballast with push-in terminal block. 3,135,822, 6–2–64, Cl. 174—59.
Baran, Peter J., to Farrel-Birmingham Co., Inc. Discharge door operating mechanism for rubber mixers and the like. 3,135,440, 6–2–64, Cl. 222—504.
Baranauckas, Charles F.: *See*—
Hodan, James J., and Baranauckas. 3,136,804.
Baranauckas, Charles F., and J. J. Hodan, to Hooker Chemical Corp. Process for making trialkyl phosphates. 3,136,805, 6–9–64, Cl. 260—461.
Baranski, Stephen: *See*—
Batlas, George X., and Baranski. 3,126,234.
Barasch, Buddy R.: *See*—
Duke, Alexander J. 3,145,049.
Barassi, Carlo, and G. Cappa, to Pirelli, S.p.A. Pneumatic tires and anti-skid elements therefor. 3,126,040, 3–24–64, Cl. 152—184.
Baratelli, Charles A., to Pennsylvania Optical Co. Eyeshield. 3,155,982, 11–10–64, Cl. 2—12.
Barbagallo, Charles J., to Honeywell Inc. Electrical storage apparatus. 3,157,858, 11–17–64, Cl. 340—173.
Barbagallo, Charles J., and E. S. Fabiszewski, to Minneapolis-Honeywell Regulator Co. Digital data processing conversion and checking apparatus. 3,130,386, 4–21–64, Cl. 340—146.1.
Barbe, Joyce L.: *See*—
Propster, Charles H., Jr., White, Trangle, and Barbe. 3,161,855.
Propster, Charles H., Jr., and Barbe. 3,161,856.
Barbeau, Raymond A.: *See*—
Lyons, George E., and Barbeau. 3,126,150.
Barber, Alan G., D. L. Kayser, and P. H. Lahr, to Union Carbide Corp. Applicator device having gas permeable liquid impermeable vent. 3,124,828, 3–17–64, Cl. 15—569.
Barber, Brian K., to The British Oxygen Co. Ltd. Extrusion process and apparatus. 3,153,108, 10–13–64, Cl. 264—176.
Barber, Clifford C., to National Research Development Corp. Testing of gear wheels. 3,150,451, 9–29–64, Cl. 33—179.5.

Barber-Colman Co.: *See*—
Bordenet, Eugene W. 3,154,728.
Cibelius, Charles A., Jr., Schaeve, and Horton. 3,119,-956.
Johnson, Royce E. 3,124,952.
Johnson, Royce E. 3,153,496.
Kennedy, Walter W. 3,123,097.
Kennedy, Walter W. 3,126,811.
Kennedy, Walter W. 3,147,768.
Kennedy, Walter W. 3,151,714.
Paulson, William A. 3,127,563.
Sweger, Russell P., Horton and Young. Re. 25,540.
Townsend, Franklin L. 3,155,332.
Trost, Wayne C. 3,121,541.

Barber, Derek L. A., and M. P. Atkinson, to National Research Development Corp. Measurement of displacements. 3,153,111, 10–13–64, Cl. 88—14.

Barber, Ernest E., and K. H. Simpkin, to General Precision Systems Ltd. Non-linear function generator. 3,128,376, 4–7–64, Cl. 235—197.

Barber, Ernest H. Aircraft wing construction. 3,136,501, 6–9–64, Cl. 244—44.

Barber, Gene D., to Control Data Corp. Variable pulse width generator. 3,139,595, 6–30–64, Cl. 332—12.

Barber, George F., to Alloyd Electronics Corp. Electron beam heating devices. 3,135,855, 6–2–64, Cl. 219—121.

Barber-Greene Co.: *See*—
Sauer, James F., Gebhardt, and Martenson. 3,155,021.
Turner, John D. 3,128,014.

Barber, James C., G. H. Megar, and T. S. Sloan, to Tennessee Valley Authority. Recovery of phosphorus from sludge. 3,136,604, 6–9–64, Cl. 23—165.

Barber, Jimmie L. Mold for pipe fitting seals. 3,116,523, 1–7–64, Cl. 22—136.

Barber Machinery Ltd.: *See*—
Brennan, Edward H. 3,125,190.

Barber Mfg. Co., The: *See*—
Mitchell, Ralph I., and Hillenbrand. 3,119,670.

Barber, Robert E., to United Aircraft Corp. Starting means for supersonic inlet. 3,116,601, 1–7–64, Cl. 60—35.6.

Barber, Robert J., to Burroughs Corp. Document handling apparatus. 3,159,396, 12–1–64, Cl. 271—34.

Barber, Ronald J., and J. M. Lowe, to Dunlop Tire and Rubber Corp. Method for the manufacture of pneumatic tires. 3,143,450, 8–4–64, Cl. 156—126.

Barber, Roy H., to Hardwick Stove Co. Removable oven door and hinge assembly. 3,155,088, 11–3–64, Cl. 126—191.

Barber, William A.: *See*—
Dargan, Ervin E., and Barber. 3,129,733.
Sloan, Carol L., and Barber. 3,133,062.

Barbera, Vito W., 50% to G. R. Biviano. Ball camera. 3,121,377, 2–18–64, Cl. 95—12.5.

Barbero, Fermo. Scraper segments. 3,155,394, 11–3–64, Cl. 277—141.

Barbknecht, Fred W., and J. S. Svitoris, to International Harvester Co. Plow beam locating and alignment gage. 3,126,643, 3–31–64, Cl. 33—180.

Barbour, Donald R., and R. V. Cahill, to General Electric Co. Elastic heater for compound curves. 3,152,313, 10–6–64, Cl. 338—214.

Barbour, Marshall S.: *See*—
Hoge, William H., and Barbour. 3,118,782.

Barbry, Etienne, to Boyer & Cie. Preparation of the tetraesters of pentaerythritol. 3,130,200, 4–21–64, Cl. 260—340.2.

Barbulesco, Daniel J., and R. S. Braden, to General Motors Corp. Domestic appliance. 3,126,131, 3–24–64, 222—185.

Barch, William E., to Standard Brands Inc. Instant tea. 3,163,539. 12–29–64, Cl. 99—77.

Barclay, John L., J. B. Bream, D. J. Hadley, and D. G. Stewart, to The Distillers Co. Ltd. Production of unsaturated aliphatic nitriles. 3,152,170, 10–6–64, Cl. 260—465.3.

Barco Mfg. Co., Inc.: *See*—
Snyder, Francis H. 3,117,057.

Bard, Albert L., and A. M. Johnsen, to Armco Steel Corp. Abrasive grinding balls and method of manufacturing same. 3,141,768, 7–21–64, Cl. 75—204.

Bard, Archie, and A. F. Aggen. Mushroom tray. 3,118,249, 1–21–64, Cl. 47—1.1.

Bard, Charleston C., to Eastman Kodak Co. Method of inhibiting discoloration of color photographic layers containing dye images and resulting photographic products. 3,157,504, 11–17–64, Cl. 96—61.

Bard, Charleton C., A. G. Millikan, and D. S. Thomas, Jr., to Eastman Kodak Co. Silver halide solvent containing developers and process. 3,128,182, 4–7–64, Cl. 96—61.

Bard, Charleton C., and D. S. Thomas, to Eastman Kodak Co. Aldehyde scavengers for photographic silver halide developers. 3,141,771, 7–21–64, Cl. 96—22.

Bard-Parker Co., Inc.: *See*—
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Barden and Robeson Corp., The: *See*—
Hetrick, Robert C. 3,146,736.

Bardet, George V., to M.J.B. Co. Gas contact of conveyed particulate solids. 3,160,483, 12–8–64. Cl. 34—236.

Barditch, Irving F., to Westinghouse Electric Corp. Monolithic variable tuning amplifier. 3,118,114, 1–14–64, Cl. 330—38.

Barditch, Irving F., to Westinghouse Electric Corp. Magneto-optical analog to digital signal converter. 3,121,866, 2–18–64. Cl. 340—347.

Bardoneschi, Roland: *See*—
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Muller, Georges, Martel, and Bardoneschi. 3,128,270.

Bardt, Klaus J., to Ciba Ltd. Process for dyeing or printing structures of olefines of low molecular weight. 3,122,409, 2–25–64, Cl. 8—34.

Baré, Jules. Gun case. 3,138,306, 6–23–64. Cl. 224—2.

Barendrecht, Embrecht, to Stamicarbon N.V. Process and apparatus for titrating. 3,131,133, 4–28–64, Cl. 204—1.

Barendsen, Pieter, and K. B. Berglund, to Atlas Copco Aktiebolag. Material handling machines. 3,153,476, 10–20–64, Cl. 198—128.

Barényi, Béla: *See*—
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Barényi, Béla, to Daimler-Benz Aktiengesellschaft. Motor vehicle door construction. 3,155,421, 11–3–64, Cl. 296—47.

Bares, Edward F., and R. A. Haggard, to Automatic Poultry Feeder Co. Animal feeder system. 3,159,142, 12–1–64, Cl. 119—52.

Baretta, Patrick A. Packageable boat. 3,121,887, 2–25–64, Cl. 9—2.

Barfield, William M.: *See*—
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Bargen, David W., to Motorola, Inc. Thermistor. 3,158,-828, 11–24–64, Cl. 338—28.

Barger, John N., C. W. Hurter, E. Perry, and S. G. Rumbold, to Aerojet-General Corp. System for pressurizing and expelling cryogenic liquids. 3,136,121, 6–9–64, Cl. 60—35.6.

Barger, Stewart D.: *See*—
Heming, Edward W., Renshaw, Dilling, and Barger. 3,138,702.

Bargetzi, Fred H., to Sperry Rand Corp. Magnetic transducer. 3,150,357, 9–22–64, Cl. 340—174.1.

Barham, Allan M.: *See*—
Toone, Brian, Arkless, and Barham. 3,136,125.

Baricordi, Antonio. Grinding apparatus. 3,119,569, 1–28–64, Cl. 241—55.

Baricordi, Antonio. Method and apparatus for fine grinding. 3,124,312, 3–10–64, Cl. 241—5.

Baril, Albert, Jr., and L. B. De Luca, to Kalvar Corp. Method of improving gradation of light scattering photographic materials. 3,149,971, 9–22–64, Cl. 96—49.

Barilotti, Eugene E.: *See*—
Craycraft, Lester V., and Barilotti. 3,141,326.

Baring, John A., to Minneapolis-Honeywell Regulator Co. Photographic light unit. 3,127,111, 3–31–64, Cl. 240—1.3.

Barish Associates, Inc.: *See*—
Barish, David T. 3,117,630.
Barish, David T. 3,150,850.

Barish, Benjamin J. Writing slate device. 3,135,059, 6–2–64, Cl. 35—66.

Barish, Benjamin J. Self-erasing device. 3,149,425, 9–22–64, Cl. 35—61.

Barish, Benjamin J., to Burroughs Corp. Method and apparatus for positioning and assembling wires and the like. 3,157,721, 11–17–64, Cl. 264—157.

Barish, David T. Auto-rotating parachute and swivel. 3,118,-641, 1–21–64, Cl. 244—142.

Barish, David T., to Barish Associates, Inc. Rotors. 3,117,-630, 1–14–64, Cl. 170—160.1.

Barish, David T., to Barish Associates, Inc. Aerial-recovery vehicles or systems. 3,150,850, 9–29–64, Cl. 244—138.

Barkan, Philip, to General Electric Co. Hydraulically-actuated operating mechanism for an electric circuit breaker. 3,133,475, 5–19–64, Cl. 91—446.

Barker, Arthur J.: *See*—
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Barker Automation, Inc.: *See*—
Fox, Gaston M., and Masters. 3,152,360.

Barker, Bernard, to Fisher & Ludlow Ltd. Mobile hopper poultry feeder. 3,156,215, 11–10–64, Cl. 119—52.

Barker, Charles T., and T. O. Gray. Lounge-type chair. 3,129,976, 4–21–64, Cl. 297—423.

Barker, Clarence L.: *See*—
Scheifele, Hudson B., Barker, and Jensen. 3,156,506.

Barker, Frank S., to Shakertown Corp. Material fabricating machine. 3,125,919, 3–24–64, Cl. 83—201.

Barker, John L., to Laboratory for Electronics Inc. Traffic actuated control system. 3,128,446, 4–7–64, Cl. 340—35.

Barker, John L., to Laboratory For Electronics, Inc. Airport traffic indicating and control system. 3,152,327, 10–6–64, Cl. 343—8.

Barker, John L., to Laboratory for Electronics, Inc. Pulse Doppler radar system. 3,161,876, 12–15–64, Cl. 343—8.

Barker, Melvin R., and B. H. Dellinger, to Comet Corp. Blank twistable to form a blowgun dart. 3,138,382, 6–23–64, Cl. 273—106.5.

Barker, Norman H., and F. W. Grahame, to General Electric Co. Electrical capacitor construction to reduce shock hazard. 3,133,238, 5–12–64, Cl. 318—220.

Barker, Peter W., to Imperial Chemical Industries Ltd. New azo dyestuffs. 3,117,118, 1–7–64, Cl. 260—207.1.

Barker, Stephen: *See*—
Bennett, Walter, Barker, and Heinmiller. 3,163,306.

Barkley, Charles R., to Evans Reamer and Machine Co. Combination abrading and exhaust unit. 3,157,009, 11–17–64, Cl. 51—273.

Barkman, David R., to Package Machinery Co. Wrapper forming means for wrapping machines. 3,140,631, 7–14–64, Cl. 83—302.

Barkman, Rolf K. E.: *See*—
Enstrom, Hans G., Barnieske, and Barkman. 3,155,093.
Barksdale, Leon S. Railroad track guard rail clamp. 3,123,-301, 3–3–64, Cl. 238—23.
Barletta, John R. Pressure responsive liquid level control. 3,136,871, 6–9–64, Cl. 200—81.
Barley, Leo D., to Harris-Intertype Corp. Cutting machine. 3,118,338, 1–21–64, Cl. 83—461.
Barley, Leo D., to Harris-Intertype Corp. Servo controlled clamp. 3,160,048, 12–8–64, Cl. 83—390.
Barlow, Donald W.: *See*—
Savage, Harry A. 3,144,963.
Barlow, John A., F. E. Martin, G. T. Maugham, T. E. Chapman, and E. W. Dalby, to Fairey Engineering Ltd. Formation of fins on metal bar or tube stock. 3,137,926, 6–23–64, Cl. 29—157.3.
Barlow, Norman M., to United-Carr Fastener Corp. Separable plastic snap fastener. 3,130,464, 4–28–64, Cl. 24—208.
Barlow, Norman M., and E. Melanson, to United-Carr Inc. Method of applying snap fasteners to articles of manufacture. 3,160,540, 12–8–64, Cl. 156—66.
Barlow, Paul D., to Monsanto Chemical Co. Temperature control circuit. 3,131,279, 4–28–64, Cl. 219—20.
Barlow, Thomas E., and O. L. Norman, to International Minerals & Chemical Corp. Foundry sand composition and method of preparation. 3,137,046, 6–16–64, Cl. 22—193.
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Howard, Ronald W., and Barltrop. 3,126,736.
Barmer Maschinenfabrik Aktiengesellschaft: *See*—
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Schippers, Heinz, and Lohest. 3,153,837.
Barna, Alexander: *See*—
Barna, Sándor. 3,123,515.
Barna, Bohdan, and J. G. Thompson, to British Drug Houses (Canada) Ltd. Microbial sensitivity testing device. 3,138,544, 6–23–64, Cl. 195—103.5.
Barna, Sándor, now by judicial change of name to Alexander Barna. Scratch-resistant molded product and method of manufacture. 3,123,515, 3–3–64, Cl. 161—162.
Barnard, Bruce E.: *See*—
Barnard, Henry H. 3,147,729.
Barnard, Clifford A., to Pye Ltd. Black level stabilization circuit. 3,145,263, 8–18–64, Cl. 178—7.3.
Barnard, Henry H., deceased; Boston Safe Deposit and Trust Co., and B. E. Barnard, co-executors of said H. H. Barnard. Sail. 3,147,729, 9–8–64, Cl. 114—108.
Barnard & Leas Mfg. Co., Inc.: *See*—
Ronk, George T., and White. 3,150,863.
Stephens, Will R. 3,130,033.
Barnard, Mark C. S., to The Rover Co. Ltd. Rotary fuel pump of the kind including cam-operated pistons. 3,160,-104, 12–8–64, Cl. 103—41.
Barnard, William B., to Minneapolis-Honeywell Regulator Co. Pneumatic fire alarm system. 3,119,368, 1–28–64, Cl. 116—102.
Barnby, Herbert A., and R. H. Whitney, to Owens-Illinois Glass Co. Method of producing aerosol-type package. 3,131,077, 4–28–64, Cl. 117—5.5.
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Barner, Klaus H.: *See*—
Meurer, Siegfried, and Barner. 3,127,880.
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Barnes, Allie C.; 12½% to E. J. Rahm, 36½% to B. G. Preston, 2% to I. Cramer, 13% to C. W. Wesch, 6% to C. B. McFarlin, 6% to Brinson Development Co., and 6% to L. H. and/or V. L. McElderry. Drill bit. 3,142,347, 7–28–64, Cl. 175—349.
Barnes, Charles: *See*—
Barnes, Llewellyn T. 3,155,887.
Barnes, Charles R., and C. R. Geesner, to United States of America, Air Force. Process for depositing thin films of silicon nitride dielectric. 3,122,450, 2–25–64, Cl. 117—230.
Barnes, Charles R., and C. R. Geesner, to United States of America, Air Force. Process for depositing silicon dioxide dielectric coatings. 3,123,497, 3–3–64, Cl. 117—230.
Barnes, Charles T.: *See*—
Barnes, Llewellyn T. 3,156,333.
Barnes, Charles W.: *See*—
Lytton, Kenneth G., Barnes, and Wise. Re. 25,609.
Barnes, Chester L., to L.P.T. Systems, Inc. Advertising device. 3,159,937, 12–8–64, Cl. 40—130.
Barnes, Clare E., and R. V. Goordman, to Bell Telephone Laboratories, Inc. Circuit for producing short rise time current pulses in inductive loads. 3,149,244, 9–15–64, Cl. 307—104.
Barnes, Clare E., and R. V. Goordman, to Bell Telephone Laboratories, Inc. Circuit for producing current pulses having overshoot and undershoot. 3,149,245, 9–15–64, Cl. 307—106.
Barnes Drill Co.: *See*—
Greenberg, Donald K., and Casson. 3,154,893.
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Astheimer, Robert W. 3,130,308.
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Barnes, Epp R. Garment hangers. 3,157,324, 11–17–64, Cl. 223—88.
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Hungerford, Richard C., and Brown. 3,139,097.
Hungerford, Richard C., and Brown. 3,139,098.
Barnes, Hugh R.: *See*—
Pensavecchia, Frank G., and Barnes. 3,152,540.
Barnes, Hugh R., to Holley Computer Products Co. Permanent magnet hammer module in high speed printers. 3,156,-180, 11–10–64, Cl. 101—93.
Barnes, James A. Package and method of making same. 3,138,252, 6–23–64, Cl. 206—62.
Barnes, Jeffrey W., to Ferranti, Ltd. Erection means for vertical gyroscopes. 3,147,628, 9–8–64, Cl. 74—5.44.
Barnes, John V., to Ford Motor Co. Automotive brake having servo assist fluid distributing means. 3,147,825, 9–8–64, Cl. 188—78.
Barnes, John V., to Ford Motor Co. Anti-skid brake system. 3,157,052, 11–17–64, Cl. 73—514.
Barnes, Joseph T. Printing press attachment. 3,131,629, 5–5–64, Cl. 101—148.
Barnes, Lant I. Liquid mixer for car wash machine. 3,154,086, 10–27–64, Cl. 137—1.
Barnes, Llewellyn T., ⅛ to C. Barnes, and ⅛ to J. F. Woog. Gas filled trimmer capacitor. 3,155,887, 11–3–64, Cl. 317—245.
Barnes, Llewellyn T., 33⅓% to C. T. Barnes. Idling fuel-supply control mechanism for induction carburetors of vehicles. 3,156,333, 11–10–64, Cl. 192—3.
Barnes, Lloyd L., Jr., and P. G. Pace, to The Bendix Corp. Visible filter clogging indicator. 3,119,367, 1–28–64, Cl. 116—70.
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Barnes, Phillip E., and N. B. Newton, to United Aircraft Corp. Self-contained lubrication system. 3,126,980, 3–31–64, Cl. 184—6.
Barnes, Philip E., S. J. Viikinsalo, and R. B. Pitbladdo, to United Aircraft Corp. Two-part pitch changing mechanism. 3,163,231, 12–29–64, Cl. 170—135.24.
Barnes, Ralph P., to International Harvester Co. Hay discharge control means for hay conditioning devices. 3,118,-264, 1–21–64, Cl. 56—1.
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Barnes, Robert B.: *See*—
Banca, Maggio C., and Barnes. 3,138,697.
Barnes, Robert B., to Barnes Engineering Co. Multiple element thermal detector. 3,153,343, 10–20–64, Cl. 73—355.
Barnes, Sydney G., to North American Aviation, Inc. Toggle switch locking device. 3,153,707, 10–20–64, Cl. 200—42.
Barnes, Vernon M., Jr., J. A. Burke, Jr., I. R. King, and R. L. Wolf, to Texaco Experiment Inc. Launcher and rocket. 3,139,794, 7–7–64, Cl. 89—1.7.
Barnes, William R., and H. G. Emblem, to Philadelphia Quartz Co. Preparation of silicon tetrachloride. 3,122,-492, 2–25–64, Cl. 204—157.
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Kelley, Arnold E., and Barnet. 3,132,086.
Kelley, Arnold E., Wood, and Barnet. 3,132,087.
Barnett, Benjamin G. Trays. 3,163,287, 12–29–64, Cl. 206—19.5.
Barnett, Edward H.: *See*—
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Van Horne, William E., Barnett, and Goddard. 3,149,-900.
Barnett, Irvin, to Johns-Manville Corp. Filter bag fabric. 3,159,187, 12–1–64, Cl. 139—420.
Barnett, James M. Sheave and method of fabricating the same. 3,137,177, 6–16–64, Cl. 74—230.3.
Barnett, John S., to Data Recording Systems, Inc. Pulse operated camera. 3,157,882, 11–17–64, Cl. 352—131.

Barnett, Joseph, Jr., to Johns-Manville Corp. Continuous strand package supply and method of forming and of unwinding the same. 3,160,365, 12–8–64, Cl. 242—128.

Barnett, Louis H., and J. D. Davis, to Loma Industries. Foldable valet. 3,144,940, 8–18–64, Cl. 211—1.

Barnett, Orville C. Charcoal cooker. 3,140,651, 7–14–64, Cl. 99—339.

Barnett, Paul B.: *See*—
Lieberman, Irving, Zernow, and Barnett. 3,156,973.

Barnett, Sonja. Pin type fastening devices. 3,118,206, 1–21–64, Cl. 24—157.

Barnett, Stanley D.: *See*—
Nisenson, Jules, and Barnett. 3,135,369.

Barnett, Thomas R., and H. E. Warner, to Imperial Chemical Industries Ltd. Process and apparatus for uniformly cooling melt-spun filaments. 3,135,811, 6–2–64, Cl. 264—176.

Barney, Duane L., to General Electric Co. Process for producing interlaminar insulation for electrical apparatus. 3,129,124, 4–14–64, Cl. 148—6.35.

Barney, Harold L., and M. B. Gardner, to Bell Telephone Laboratories, Inc. Method of and apparatus for automatically measuring sound transmission characteristics of a room. 3,156,316, 11–10–64, Cl. 181—.5.

Barney, John R., to Motorola, Inc. Receiver cabinet structure. 3,131,980, 5–5–64, Cl. 312—7.

Barnhart, Carlton L. Bottled drink dispenser. 3,125,246, 3–17–64, Cl. 221—116.

Barnhart, Clyde S., Sr. Collapsible mosquito trap. 3,120,075, 2–4–64, Cl. 43—139.

Barnhart, Robert E., and P. B. Leege, to The Procter & Gamble Co. Double ply web transfer device. 3,128,057, 4–7–64, Cl. 242—56.

Barnhill, James H., to E. I. du Pont de Nemours and Co. Reinforced bag. 3,154,238, 10–27–64, Cl. 229—55.

Barnhill, James W., to Rohr Corp. Composite radius block. 3,118,488, 1–21–64, Cl. 153—40.

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Barnitz, Edward S., and M. L. Marks, to Consolidated Electrodynamics Corp. Chromatography apparatus. 3,149,941, 9–22–64, Cl. 55—386.

Barnum, Carlton S. Pipe cutting tool. 3,132,563, 5–12–64, Cl. 90—12.

Barnum, Donald L., and H. Dickstein, to Liberty Optical Mfg. Co., Inc. Packaging and display device and method for packaging and displaying spectacle frames. 3,123,208, 3–3–64, Cl. 206—45.14.

Barnum, Emmett R., and L. E. Lorensen, to Shell Oil Co. Nitrogen-containing copolymers and their preparation. 3,153,640, 10–20–64, Cl. 260—86.1.

Barnum, Hewitt M., to The Technicon Co., Inc. Histologic tissue receptacle. 3,128,902, 4–14–64, Cl. 220—60.

Barnum, Robert E.: *See*—
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Barns, Fred K., and R. F. Cooper, to The B. F. Goodrich Co. Tire piercing apparatus. 3,124,978, 3–17–64, Cl. 77—23.

Barocela, Edward C., to Saginaw Insurance Agency. Motion picture projector. 3,119,300, 1–28–64, Cl. 88—17.

Barogenics, Inc.: *See*—
Brayman, Jacob, and Gabey. 3,154,619.
Gerard, George, and Brayman. 3,125,240.
Gerard, George, and Brayman. 3,126,096.
Gerard, George, and Brayman. 3,156,475.
Zeitlin, Alexander, Brayman, and Gerard. 3,150,413.

Baron, Alfred M., to Texas Research and Electronics Corp. Dishwasher drain airgap. 3,155,106, 11–3–64, Cl. 137—216.

Bar-on, Arie, to Honeywell Inc. Measuring apparatus. 3,161,068, 12–15–64, Cl. 74—95.

Baron, Arthur G. Oil heater for cooking system. 3,123,122, 3–10–64, Cl. 126—360.

Baron, Frank E., and W. R. Belko, Jr., to Vitramon, Inc. Capacitor and terminal therefor. 3,118,095, 1–14–64, Cl. 317—261.

Baron, Guy, and A. Veronneau, to Institut Francais du Petrole des Carburants et Lubrifiants. High speed drill bit. 3,158,216, 11–24–64, Cl. 175—402.

Baron, William: *See*—
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Barons, Lidija. Mouth exerciser for strengthening face, neck and lip muscles. 3,118,667, 1–21–64, Cl. 272—79.

Barosko, John M., to Walker Mfg. Co. Jack. 3,134,232, 5–26–64, Cl. 60—52.

Barosko, John M., to Walker Mfg. Co. Jack. 3,145,859, 8–25–64, Cl. 214—331.

Barozzi, Alberto, to Fabbrica Italiana Magneti Marelli S.p.A. Contact breaker for ignition distributors. 3,155,784, 11–3–64, Cl. 200—30.

Barozzi, Giam P., and G. C. Horeschi, to Sperry Rand Corp. Mechanism to selectively insert single digits or a plurality of the same digits into a calculator register. 3,155,315, 11–3–64, Cl. 235—60.

Barr, Arthur. Musical straw means. 3,122,959, 3–3–64, Cl. 84—94.

Barr, Chalmers W., to Riegel Paper Corp. Reclosable container. 3,122,301, 2–25–64, Cl. 229—40.

Barr, Chalmers W., to Riegel Paper Corp. Container sealing machine. 3,143,837, 8–11–64, Cl. 53—373.

Barr, Charles R.: *See*—
Whitmore, Keith E., Staud, Barr, and Williams. 3,148,062.

Barr, Claude J., and H. R. Weisbrod, to Olin Mathieson Chemical Corp. Solid propellant fuel binder. 3,138,502, 6–23–64, Cl. 149—109.

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Barr, Courtland H., Sr., C. H. Barr, Jr., and J. W. Barr. 3,123,073.

Barr, Courtland H., Sr., C. H. Barr, Jr., and J. W. Barr. Blood sampling assembly. 3,123,073, 3–3–64, Cl. 128—276.

Barr, Ellis V., to Laughter Corp. Tapping unit with means to advance spindle to work. 3,158,883, 12–1–64, Cl. 10—139.

Barr, Frank T.: *See*—
Black, James F., Sweeney, and Barr. 3,162,580.

Barr, Hugh C., to Acme Visible Records, Inc. Record filing device. 3,163,294, 12–29–64, Cl. 211—58.

Barr, Irwin R., to Aircraft Armaments, Inc. Gas sealed explosive propelling arrangement. 3,119,302, 1–28–64, Cl. 89—1.

Barr, James R., to General Electric Co. Pivotally mounted disconnect switch contacts. 3,137,778, 6–16–64, Cl. 200—164.

Barr, James R., and R. L. Comer, to General Electric Co. Electrical apparatus having means for indicating liquid level. 3,122,017, 2–25–64, Cl. 73—322.

Barr, John G.: *See*—
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Barr, John M., and H. H. Dietrich, to General Motors Corp. Crankcase regulating system. 3,145,697, 8–25–64, Cl. 123—119.

Barr, John T.: *See*—
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Barr, John T., to Pennsalt Chemical Corp. Copolymers of chlorine-substituted fluorobutadienes and process for their preparation. 3,148,175, 9–8–64, Cl. 260—85.5.

Barr, John T., to Pennsalt Chemicals Corp. Chlorine and bromine substituted fluorobutanes and fluorobutenes. 3,155,735, 11–3–64, Cl. 260—653.

Barr, John W.: *See*—
Barr, Courtland H., Sr., C. H. Barr, Jr., and J. W. Barr. 3,123,073.

Barr, Josiah M., to American Machine & Foundry Co. Toy missile and launcher. 3,132,442, 5–12–64, Cl. 46—77.

Barr, Leslie, to Nibot Corp. Dispenser top. 3,140,019, 7–7–64, Cl. 22—480.

Barr, Robert A.: *See*—
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Barr Rubber Products Co., The: *See*—
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Dorn, Randolph J. 3,118,672.
Wentz, Wayne E. 3,139,185.

Barr and Stroud Ltd.: *See*—
Strang, John M., and Ritchie. 3,133,143.

Barr, Victor L., to Roller Bearing Co. of America. Keyed segmented race rings and improved method of making same. 3,140,130, 7–7–64, Cl. 308—216.

Barr, William H. Cam energized engine starter. 3,140,703, 7–14–64, Cl. 123—179.

Barr, William H. Automatically rewinding engine starter. 3,150,653, 9–29–64, Cl. 123—179.

Barr, William J., and F. C. Wassel, to United States Steel Corp. Intermediate guide for adjacent vertical and horizontal bar-mill stands. 3,132,546, 5–12–64, Cl. 80—51.

Barragato, Achille R., and E. F. Smith, to United States of America, Army. Intra vehicle mechanical connector. 3,152,815, 10–13–64, Cl. 285—1.

Barras, Herbert. Quarter drain ditchers. 3,132,430, 5–12–64, Cl. 37—92.

Barrer, Richard M., to Union Carbide Corp. Separatory process using modified montmorillonites. 3,121,756, 2–18–64, Cl. 260—674.

Barrett, Arthur M., Jr., to Barrett Electronics Corp. Random control for power-driven unit. 3,128,840, 4–14–64, Cl. 180—77.

Barrett, Arthur M., Jr., to Barrett-Cravens Co. Fork lift truck with a laterally shiftable carriage means and forks that are pivoted about a horizontal axis. 3,154,208, 10–27–64, Cl. 214—730.

Barrett, Bernard J.: *See*—
Henry, Charles L., Barrett, Guest, and Floros. 3,118,725.

Barrett, Charles A. Apparatus for shadow projection of clock dial. 3,136,210, 6–9–64, Cl. 88—24.

Barrett-Cravens Co.: *See*—
Barrett, Arthur M., Jr. 3,154,208.

Barrett, David M., and O. C. Hollstein, to Picker X-Ray Corp., Waite Mfg. Division, Inc. Tiltable X-ray table comprising means to produce a variable speed translational movement. 3,131,301, 4–28–64, Cl. 250—55.

Barrett, Donald L., to The Goodyear Tire & Rubber Co. Tire pitch. 3,160,194, 12–8–64, Cl. 152—367.

Barrett, Edward L., 11% to L. Pohl, 11% H. P. Reynolds, 11% to F. A. Furar, and 11% to W. G. Pohn. Electromechanical drive and motion conversion device. 3,127,529, 3–31–64, Cl. 310—21.

Barrett Electronics Corp.: *See*—
Barrett, Arthur M., Jr. 3,128,840.
De Liban, Robert. 3,147,817.

Barrett, Herbert I. Lid remover and replacer. 3,158,879, 12–1–64, Cl. 7—14.6.

Barrett, Laverne H., to Gorton's of Gloucester, Inc. Material handling apparatus. 3,150,775, 9–29–64, Cl. 209—124.

Barrett, Leo D.: *See*—
Pekar, Howard, and Barrett. 3,141,797.
Barrett, Leonard W. Weight operated overload motor control for ventilating systems. 3,135,845, 6–2–64, Cl. 200—85.
Barrett, Oliver O'C. Illusions. 3,126,202, 3–24–64, Cl. 272—8.
Barrett, Paul A., A. G. Caldwell, and L. P. Walls, to Burroughs Wellcome & Co. (U.S.A.) Inc. Piperazino alkylamino quinoline derivatives and the manufacture thereof. 3,142,679, 7–28–64, Cl. 260—268.
Barrett, Richard A.: *See*—
Hirschfeld, Irving M., and Barrett. 3,137,445.
Barrett, Robert, to The General Electric Co. Ltd. Carrier communication systems with repeater stations. 3,144,607, 8–11–64, Cl. 325—5.
Barrett, Waren P., to Three Rivers Industries, Inc. Feedthrough smoothing filter. 3,141,145, 7–14–64, Cl. 333—79.
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Moebius, Charles M., and Barricklow. 3,159,971.
Barringer, Jerry M., to General Electric Co. Isolating and frequency multiplying circuit employing varactor diodes. 3,163,781, 12–29–64, Cl. 307—885.
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Remmers, Edward G., Barringer, and Ritter. 3,122,578.
Remmers, Edward G., Barringer, and Sieger. 3,159,542.
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Francis, Arthur B., Barrington, and Helmer. 3,117,224.
Barrios, Hector R., J. S. Molletta, and R. C. Nordberg, to H. I. Thompson Fiber Glass Co. Method and apparatus for helically winding strips on edge under pressure. 3,140,968, 7–14–64, Cl. 156—192.
Barron, Edward R.: *See*—
Bailey, Theodore L., and Barron. 3,130,414.
Barron, James. Feeding and suction tubes. 3,155,097, 11–3–64, Cl. 128—350.
Barron, Joseph M., to Texaco Development Corp. Recovery of oil by in situ combustion. 3,120,264, 2–4–64, Cl. 166—39.
Barron, Lee H. Diamond coated wire saw. 3,150,470, 9–29–64, Cl. 51—185.
Barrow, James E. File cabinet marker. 3,149,892, 9–22–64, Cl. 312—234.5.
Barrow, John K., Jr. Apparatus for continuously producing a fertilizer mixture. 3,140,920, 7–14–64, Cl. 23—259.1.
Barrow, John K., Jr. Apparatus for producing a fertilizing mixture. 3,140,921, 7–14–64, Cl. 23—259.1.
Barrows, Howard E., and J. R. Prengel, to John Oster Mfg. Co. Lather making machine. 3,119,779, 1–28–64, Cl. 252—359.
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Dowd, Howard M., and Barrows. 3,123,357.
Barry, Adelbert, and W. D. Mounce, to Jersey Production Research Co. Apparatus for drill stem testing. 3,134,441, 5–26–64, Cl. 166—187.
Barry, Alexander. Course corrector. 3,126,151, 3–24–64, Cl. 235—78
Barry, Frank W., to United Aircraft Corp. Gaseous sealing means in an apparatus for working materials by a beam of charged particles. 3,156,811, 11–10–64, Cl. 219—121.
Barry, George D. Bowler's glove. 3,152,337, 10–13–64, Cl. 2—159.
Barry, James R., and E. G. Doyle. Pressure flush radiator cap. 3,151,887, 10–6–64, Cl. 285—13.
Barry, John K., to South Chester Corp. Non-removable screw. 3,134,291, 5–26–64, Cl. 85—45.
Barry, John K., and R. H. Bisbing, to South Chester Corp. Clip-on receptacle or socket member for one-quarter turn stud. 3,123,880, 3–10–64, Cl. 24—221.
Barry, Leonard D. Magnetic recorder for symbols. 3,119,988, 1–28–64, Cl. 340—174.1.
Barry, Leonard D., to Ampex Corp. Tape recorder circuit. 3,136,866, 6–9–64, Cl. 179—100.2.
Barry, Leonard D. Material handling system. 3,154,203, 10–27–64. Cl. 214—38.
Barry, Thomas F., and J W. Smith, to Bethlehem Steel Co. Method and apparatus for cable prestressing. 3,119,434, 1–28–64, Cl. 153—35.
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Nekola, William J., and Babunovic. 3,117,665.
Barry, William R. Packing cartridge assembly. 3,131,938, 5–5–64, Cl. 277—9.
Barske, Ulrich M. W. Spring-loaded seal with coaxial relatively rotating contact faces. 3,160,418, 12–8–64, Cl. 277—90.
Barson, Clifford W.: *See*—
Gough, Vernon E., and Barson. 3,142,178.
Barstow, Frederick E., and C. Lilliott, to Edgerton, Germeshausen & Grier, Inc. Flashblindness protective apparatus. 3,152,215, 10–6–64, Cl. 88—61.
Barsy, Imre J., and R. P. Desch, to Armstrong Cork Co. Semiconductive surface coverings and method of manufacture. 3,132,065, 5–5–64, Cl. 161—165.
Bart Enterprises, Inc.: *See*—
Bartolucci, Leo M., and Rohrer. 3,148,383.
Bartolucci, Leo M., and Rohrer. 3,148,384.
Barta, Edward J.: *See*—
Smith, George S., Barta, and Lazar. 3,132,948.
Barta, Gerald T., and J. R. Miskell, to Indiana General Corp. Magnet tester utilizing a motor-driven balancing network to determine plural discrete levels of energy. 3,140,441, 7–7–64, Cl. 324—34.
Barta, Henry J., to S & C Electric Co. Means for controlling the connection between underground high voltage conductors. 3,122,658, 2–25–64, Cl. 307—94.
Barta, Henry R.: *See*—
Woods, John P., and Barta. 3,117,349.
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Bartel, Robert S., and D. W. Bright, to International Business Machines Corp. Electro-magnetic signal responsive device. 3,142,046, 7–21–64, Cl. 340—174.
Bartell, Pasquale F., H. Tint, and S. F. Colalongo, to American Home Products Corp. Bacteria free dried smallpox vaccine. 3,135,661, 6–2–64, Cl. 167—78.
Bartels, Erich, to Rheinmetal G.m.b.H., Firma. Packing ring for firearms. 3,125,928, 3–24–64, Cl. 89—26.
Bartels, Ernst-August, to Chemische Werke Albert. Seed stock protecting agent in drillable form. 3,156,550, 11–10–64, Cl. 71—2.4.
Bartels, Herbert D., S. L. Flugge, and L. F. Irland, to Continental Can Co., Inc. Package and method of forming same. 3,117,873, 1–14–64, Cl. 99—171.
Bartels-Keith, James R., to Smith Kline & French Laboratories. Tropolone derivatives. 3,134,768, 5–26–64, Cl. 260—239.3.
Bartelson, Donald, to Chrysler Corp. Training device. 3,123,921, 3–10–64, Cl. 35—19.
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Barth, Hans: *See*—
Rauscher, Herbert, Barth, and Knöpke. 3,132,067.
Barth, Hans, to Deutsche Gesellschaft fur Schadlings bekampfung m.b.H. Packaging gas-producing materials. 3,151,919, 10–6–64, Cl. 312—31.
Barth, Heinz A., to Gesellschaft fur Linde's Eismaschinen Aktiengesellschaft. Testing of structural materials for low temperatures. 3,140,602, 7–14–64, Cl. 73—100.
Barth, Heinz A., to Gesellschaft fur Linde's Eismaschinen Aktiengesellschaft. Method for heat treating welded metal plates. 3,162,555, 12–22–64, Cl. 148—145.
Barth, Seymour, R. D. McCoy, and E. K. Stodola, to Dynamics Corp. of America. Missile tracking and control system. 3,134,972, 5–26–64, Cl. 343—7.4.
Barth, Stephan L.: *See*—
Gerber, Roger, and Barth. 3,119,281.
Barthel, Karl, to Schnellpressenfabrik Aktiengesellschaft. Rotary letterpress having a mirror image cylinder arrangement. 3,158,092, 11–24–64, Cl. 101—177.
Barthelemy, Pierre: *See*—
Nomine, Gerard, Penasse, and Barthelemy. 3,159,616.
Barthelmes, Otto P., to Math. Bauerle, G.m.b.H. Printing mechanism. 3,117,515, 1–14–64, Cl. 101—93.
Barthelmess, Otto: *See*—
Bauder, Ulrich, and Barthelmess. 3,120,607.
Barthelmess, Otto, to Fr. Hesser Maschinenfabrik-Aktiengesellschaft. Machine for manufacturing packaging bags. 3,140,643, 7–14–64, Cl. 93—12.
Barthelemy, Pierre: *See*—
Nomine, Gerhard, Penasse, and Barthelemy. 3,132,135.
Bartholomay, Robert P., to Eastman Kodak Co. Web inverter arrangement. 3,125,268, 3–17–64, Cl. 226—97.
Bartholomeo, Frank A., and R. E. Hefner, to The Dow Chemical Co. Ammonia-epichlorohydrin resins. 3,132,112, 5–5–64, Cl. 260—2.1.
Bartholomew, George A., and R. F. Higgs, to United States Steel Corp. Roll for marking metal strip. 3,152,977, 10–13–64, Cl. 204—224.
Bartholomew, George L.: *See*—
Shanta, Peter L., Bartholomew, Sturges, McGahan, and Caine. 3,153,636.
Bartholomew, Wion L., deceased (Southern Bank & Trust Co., executor), to First Baptist Benevolent Assn. Mobile crane. 3,152,789, 10–13–64, Cl. 254—139.1.
Barth-Wehrenalp, Gerhard: *See*—
Mandell, Harry C., Jr., and Barth-Wehrenalp. 3,140,934.
Bartik, William J., to Sperry Rand Corp. Method and apparatus for wiring memory arrays. 3,117,368, 1–14–64, Cl. 29—155.56.
Bartik, William J., to Sperry Rand Corp. Ferrite core storage device. 3,124,787, 3–10–64, Cl. 340—174.
Bartkus, Edward A., R. F. Elfant, K. R. Grebe, and N. J. Mazzeo, to International Business Machines Corp. Magnetic memory. 3,134,096, 5–19–64, Cl. 340—174.
Bartky, Walter S.: *See*—
Tannenbaum, Jerome, and Bartky. 3,135,916.

Bartky, Walter S., to General Controls Co. Capacitance measuring apparatus. 3,119,267, 1–28–64, Cl. 73—304.
Bartl, Herbert, and H. Scheurlen, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of elastomers. 3,160,575, 12–8–64, Cl. 204—154.
Bartl, Herbert: *See*—
Peter, Julius, Schmidt, and Bartl. 3,130,175.
Bartl, Hugo: *See*—
Karácsonyi, Paul, Bartl, and Zimmermann. 3,150,916.
Bartleson, Christian J., Jr.: *See*—
Huboi, Robert W., Bartleson, and Goddard. 3,152,897.
Bartleson, John D., and R. B. Faris, Jr., to The Standard Oil Co. Lubricating oil for jet engines. 3,121,061, 2–11–64, Cl. 252—59.
Bartlett, Charles B.: *See*—
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Strickland, Gerald, Johnson, Horn, and Bartlett. 3,145,-078.
Bartlett Engineering Co., Inc.: *See*—
Martin, Le Roy L. 3,143,937.
Bartlett, Howard J., D. T. Lapp, and G. R. Watson, to Norton Co. Method for the preparation of aluminum nitride refractory material. 3,141,737, 7–21–64, Cl. 23—192.
Bartlett, Jeffrey H.: *See*—
Morway, Arnold J., and Bartlett. 3,142,643.
Bartlett, Jeffrey H., to Esso Research and Engineering Co. Cyclopentenyl esters of 2-mercapto-2-thiono 1,3,2-dioxaphosphorinane and 1,3,2-dioxaphospholane acids. 3,159,664, 12–1–64, Cl. 260—461.
Bartlett, Jeffrey H., and S. B. Lippincott, to Esso Research and Engineering Co. Production of monocarboxylic acids from large ring alicyclic alcohols. 3,121,728, 2–18–64, Cl. 260—413.
Bartlett, Joseph E. Valve member assembly for faucets and the like. 3,117,762, 1–14–64, Cl. 251—88.
Bartlett Laboratories, Inc.: *See*—
Bartlett, Peter G. 3,148,351.
Bartlett, Peter G. and R. C. 3,142,479.
Bartlett, Lloyd C.: *See*—
Bartlett, Reginald C. 3,140,546.
Bartlett, Marjorie: *See*—
Bartlett, Norman. 3,153,536.
Bartlett, Merrill F., to Ciba Corp. Ajmaline derivatives and process therefor. 3,133,929, 5–19–64, Cl. 260—293.
Bartlett, Norman, ½ to M. Bartlett. Passenger carrying roundabout. 3,153,536. 10–20–64, Cl. 272—36.
Bartlett, Paul D., to Pittsburgh Plate Glass Co. Purification of oxiranes by reduction of carbonyl impurities with trivalent nitrogen compounds. 3,149,131, 9–15–64, Cl. 260—348.
Bartlett, Peter G., to Bartlett Laboratories, Inc. Directional hydrophone system. 3,148,351, 9–8–64, Cl. 340—16.
Bartlett, Peter G. and R. C., to Bartlett Laboratories, Inc. Control for an air heater. 3,142,479, 7–28–64, Cl. 263—19.
Bartlett, Philip D.: *See*—
Hamilton, Joel A., and Bartlett. 3,161,516.
Bartlett, Reginald C., to L. C. Bartlett. Skin fold caliper. 3,140,546, 7–14–64, Cl. 33—148.
Bartlett, Richard C.: *See*—
Bartlett, Peter G. and R. C. 3,142,479.
Bartlett, Ronald S.: *See*—
Ryan, Patrick W., Bartlett, and Sanford. 3,136,825.
Bartlett, Shirley C., Jr.: *See*—
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Bartlett-Snow-Pacific, Inc.: *See*—
Hartley, Henry J., and Hollingsworth. 3,131,919.
Bartlett, Thomas B.: *See*—
Hendricks, George D., Bartlett, and Fieser. 3,159,817.
Bartlett, William F., to General Dynamics Corp. Time division multiplex telephone circuitry for providing rapid transfer of a call from one called party to another. 3,158,-688, 11–24–64, Cl. 179—15.
Bartlett, William F., to General Dynamics Corp. Impulse analyzer for time division multiplex switching systems. 3,158,812, 11–24–64, Cl. 328—42.
Bartlett, William F., B. W. Brightman, and J. H. Guenther, to General Dynamics Corp. Automatic communication system. 3,134,858, 5–26–64, Cl. 179—18.
Bartley, Donald R., and G. S. Irby, to Haveg Industries, Inc. Process for forming foamed polyurethane using a silicone elastomer containing mold. 3,133,978, 5–19–64, Cl. 264—45.
Bartley, Jerald H.: *See*—
Allred, Don C., and Bartley. 3,154,367.
Bartley, Leo S., to Bartley Mfg. Co., Inc. Wire stripping tool. 3,161,087, 12–15–64, Cl. 81—9.5.
Bartley Mfg. Co., Inc.: *See*—
Bartley, Leo S. 3,161,087.
Bartmann & Bixer, Inc.: *See*—
Spallina, James P. 3,157,553.
Bartok, William, to Esso Research and Engineering Co. Method of oxidizing hydrocarbon feeds employing discontinuous triggering means. 3,145,220, 8–18–64, Cl. 260—348.5.
Bartok, William, and P. J. Lucchesi, to Esso Research and Engineering Co. Method of upgrading light hydrocarbons. 3,125,498, 3–17–64, Cl. 204—154.
Bartolomeo, Frank T., deceased, J. A. Bartolomeo, executrix. Smoking accessories. 3,124,143, 3–10–64, Cl. 131—253.
Bartolomeo, Julia A.: *See*—
Bartolomeo, Frank T. 3,124,143.
Bartolotta, Joseph. Collapsible community multi-dwelling birdhouse. 3,135,239, 6–2–64, Cl. 119—23.
Bartolucci, Leo M., and J. A. Rohrer, to Bart Enterprises, Inc. Pool cover securing means. 3,148,383, 9–15–64, Cl. 4—172.
Bartolucci, Leo M., and J. A. Rohrer, to Bart Enterprises, Inc. Structure for covering a swimming pool. 3,148,384, 9–15–64, Cl. 4—172.
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Riboni, Ubaldo, and Bartolucci. 3,116,066.
Barton, Alan E., to Goral Ltd. Suspender fasteners. 3,139,-662, 7–7–64, Cl. 24—246.
Barton, Amos B. Mobile saw for pavement and the like. 3,141,702, 7–21–64, Cl. 299—39.
Barton, Arthur F., ¼ to J. C. Boston. Electrical connecting clamp assembly. 3,129,279, 4–14–64, Cl. 174—43.
Barton, Bruce A., to E. I. du Pont de Nemours and Co. Polyamide filament. 3,145,133, 8–18–64, Cl. 161—168.
Barton, Bruce G., to Westinghouse Air Brake Co. Multiple block fluid distribution panel for mounting fluid control devices and method of directing fluid flow through the blocks. 3,158,164, 11–24–64, Cl. 137—15.
Barton, Charles J., and J. E. Lawver, to International Minerals & Chemical Corp. Method for determining the phosphate content of phosphatic materials. 3,137,543, 6–16–64, Cl. 23—230.
Barton, Derek H. R., to Fritzshe Brothers, Inc. 6-substituted ionones and methods and intermediates used in their production. 3,117,982, 1–14–64, Cl. 260—348.
Barton, Derek H. R., B. A. Hems, T. Walker, A. C. Ritchie, R. F. K. Meredith, P. G. Holton, D. E. Clark, and G. B. Webb, to Glaxo Group Ltd. 1-substituted tetrahydro isoquinolines and process for preparing the same. 3,121,720, 2–18–64, Cl. 260—288.
Barton, Frank L., Jr., and W. L. Miller, to Libbey-Owens-Ford Glass Co. Marking of glass sheets. 3,146,083, 8–25–64, Cl. 65—60.
Barton, George C., to United Shoe Machinery Corp. Plastic injection molding machines. 3,117,347, 1–14–64, Cl. 18—30.
Barton, Gerald B., to United States of America, Atomic Energy Commission. Radioactive strontium containment. 3,161,600, 12–15–64, Cl. 252—301.1.
Barton, Gerald B., to United States of America, Atomic Energy Commission. Radioactive cesium containment. 3,161,601, 12–15–64, Cl. 252—301.1.
Barton, Hugh M., Jr., to Phillips Petroleum Co. Method of and apparatus for irradiating fluid and solid materials with emanations from a radioactive source. 3,124,687, 3–10–64, Cl. 250—106.
Barton, Raymond W., and J. T. Herron, to Don Baxter, Inc. Additive container for medicants or the like. 3,143,251, 8–4–64, Cl. 222—209.
Barton, Raymond W., H. Heckel, P. Prickett, and E. G. Swenson, to Don Baxter, Inc. Parenteral solution container. 3,161,310, 12–15–64, Cl. 215—1.
Barton, Roscoe C., to Armour and Co. Material separating device. 3,143,213, 8–4–64, Cl. 209—93.
Bartone, John. Trailer hitch. 3,129,019, 4–14–64, Cl. 280—485.
Bartos, Donald M., to Dow Corning Corp. Electric tape insulation and its application to conductor. 3,162,722, 12–22–64, Cl. 174—110.
Bartoseski, Carl J., and R. E. Pickett, to North Electric Co. Automatic selective control of pumping engines. 3,160,101, 12–8–64, Cl. 103—11.
Bartram, Earl. Automobile drivers signaling device. 3,141,-253, 7–21–64, Cl. 40—129.
Bartz, Fred H. Foldable ejector insert for food cartons. 3,144,189, 8–11–64, Cl. 229—23.
Baruch, Jordan J., to Bolt, Beranek and Newman Inc. Acoustically absorbent conduit. 3,132,717, 5–12–64, Cl. 181—50.
Barusch, Edward J. Combination line penetrating valve device. 3,162,211, 12–22–64, Cl. 137—318.
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Kautsky, George J., Barusch, and Richardson. 3,148,-959.
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Lindstrom, Eddie G., and Barusch. 3,122,577.
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Basalt Rock Co., Inc.: *See*—
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Bird, Walter W., Reitmeier, and Baschmann. 3,150,670.
Basci, Joseph. Stacked vessels. 3,144,016, 8–11–64, Cl. 126—265.
Bascom, Hollis H., to Coast Mfg. and Supply Co. Glass fiber filter for hot gas distribution in driers. 3,128,160, 4–7–64, Cl. 34—82.
Base Engineering Development Co.: *See*—
Ceglia, Michael J. 3,146,298.
Baseel, Sam M. Close grip safety razor. 3,162,944, 12–29–64, Cl. 30—60.5.
Baselt, Frederick C., to American Can Co. Method of preparing and dispensing comestibles. 3,139,343, 6–30–64, Cl. 99—71.

Basen, Toralv: *See*—
Collin, Fredrik C., and Basen. 3,163,520.
Collin, Fredrik C., Båsen, and Skretting. 3,150,958.
Basham, Edgar W. J., E. J. Gratrex, R. F. Harland, and D. F. Maskell, to Normalair, Ltd. Body harness fastening means. 3,142,968, 8–4–64, Cl. 61—70.
Basham, Henry J. Aligning means for stuffing boxes. 3,135,-534, 6–2–64, Cl. 285—112.
Basham, Raymond B., to The Western Co. Coincident pulse suppression system for simultaneous radioactivity well logging. 3,142,757, 7–28–64, Cl. 250—83.3.
Bashlow, Archie. Dust-proof cabinet. 3,134,637, 5–26–64, Cl. 21—74.
Bashover, Albert, and M. Samberg, to Conmar Products Corp. Method and apparatus for making plastic slide fasteners. 3,137,036, 6–16–64, Cl. 18—19.
Basic Food Materials, Inc.: *See*—
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Basic Inc.: *See*—
Shurtz, Robert F. 3,123,407.
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Eichelberg, Henry L., and Thomson. 3,152,795.
Krezek, Donald. 3,139,577.
Lenox, Warren S., and Gurnik. 3,142,030.
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Basile, Rocco F.: *See*—
Crimmins, David J., Marcsanyi, and Basile. 3,159,447.
Baskell, Raymond C., to Jenkins Bros. Assembly tool. 3,149,413, 9–22–64, Cl. 29—235.
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Sweatt, Albert E., and Baskevitch. 3,126,909.
Baskin, Herbert A., to W. R. Grace & Co. Process for purifying crude calcium cyanate. 3,131,023, 4–28–64, Cl. 23—75.
Baskin, Herbert B., to International Business Machines Corp. Logical and memory circuits utilizing tri-level signals. 3,129,340, 4–14–64, Cl. 307—88.5.
Baskin, Herbert B., to International Business Machines Corp. Specimen identification apparatus and method. 3,158,840, 11–24–64, Cl. 340—172.5.
Basler Electric Co.: *See*—
Lee, Robert H., and Frierdich. 3,119,934.
Bass Brothers Enterprises, Inc.: *See*—
Erwin, Ransome W., and O'Shields. 3,136,723.
Griffin, Phil H., III. 3,136,583.
Bass, Miles M.: *See*—
Hammond, Lee C., Bass, and Faulkner. 3,152,423.
Bass, Waldo E., and J. F. Kirby, to West Essex Printing Plate, Inc. Method and apparatus for mounting printing sleeves. 3,146,709, 9–1–64, Cl. 101—375.
Bassano, Joseph. Production of macaroni and the like. 3,131,653, 5–5–64, Cl. 107—4.
Basseches, Harold, P. L. McGeough, and D. A. McLean, to Bell Telephone Laboratories, Inc. Metal film resistors. 3,148,129, 9–8–64, Cl. 204—38.
Basseches, Mark T. Surgical tape. 3,163,162, 12–29–64, Cl. 128—156.
Basset, Harry S., to S. Basset. Monopole elevator. 3,126,-071, 3–24–64, Cl. 187—19.
Basset, Susan: *See*—
Basset, Harry S. 3,126,071
Bassett, Joseph A.: *See*—
Battles, Malcolm H., Bassett, Cassidy, and Giella. 3,130,069.
Bassett, Raymond C., Jr., to General Electric Co. Logic circuits using non-linear resonance. 3,134,910, 5–26–64, Cl. 307—88.
Bassett, William M.: *See*—
Bouvier, Ward A., and Bassett. 3,125,887.
Bassford, John M., T. H. Biven, A. E. Lovett, and F. R. and W. E. Smith, to United Shoe Machinery Corp. Heel attaching machines. 3,148,374, 9–15–64, Cl. 1—335.
Bassham, James H.: *See*—
Pickels, Edward G., and Bassham. 3,144,831.
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Bassin, Murray I., to Minnesota Mining and Mfg. Co. Curable composition comprising an admixture of polyester polymer, a polymeric polymer and a polyalkyleneamide polymer. 3,157,607, 11–17–64, Cl. 260—22.
Bassinger, Ross. Enclosed case mud percussion tool. 3,162,-251, 12–22–64, Cl. 173—73.
Bassinger, Ross, and J. D. Gardner, to Bassinger Tool Co. Fluid actuated impact tool. 3,132,704, 5–12–64, Cl. 173—71.
Bassinger Tool Co.: *See*—
Bassinger, Ross, and Gardner. 3,132,704.
Bassoff, Arthur B.: *See*—
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Bastam, Hans-Dieter: *See*—
Kohler, Ernst, Bastam, and Brantner. 3,140,140.
Basten, Rolf, to International Standard Electric Corp. Program-control unit comprising an index register. 3,144,550, 8–11–64, Cl. 235—157.
Baster, Forest S., to The White Motor Co. Internal combustion engine. 3,145,696, 8–25–64, Cl. 123—59.
Bastiaanse, Abraham G. Reciprocating engine. 3,144,813, 8–18–64, Cl. 91—329.
Bastian-Blessing Co., The: *See*—
Carlson, Clifford R., and Swiftney. 3,159,438.
Ivins, Nelson J. 3,152,818.
Shaw, Harry N., and Hanson. 3,145,733.
Bastien, Jules. Portable watercraft. 3,150,386, 9–29–64, Cl. 9—6.
Bastis, Thomas E., and H. H. Borup, to Kaiser Aluminum & Chemical Corp. Lap joint for highway guard rail. 3,140,-885, 7–14–64, Cl. 287—64.
Baston, Delbert R.: *See*—
Stoligrosz, Eugene, and Baston. 3,161,191.
Bastone, Anthony R.: *See*—
Loughney, Richard W., Hoffman, and Bastone. 3,133,595.
Batchelder, George W., to Aerojet-General Corp. Process of preparing solid propellant compositions using a dehydrating agent. 3,131,101, 4–28–64, Cl. 149—19.
Batchelder, George W., and G. A. Zimmerman, to Aerojet-General Corp. Solid propellant compositions containing unsaturated polyester resin. 3,150,018, 9–22–64, Cl. 149—19.
Batchelder, James W., to Textron Inc. Feeder apparatus. 3,130,863, 4–28–64, Cl. 221—9.
Batcheller, Kent J. Female electric connector member. 3,152,856, 10–13–64, Cl. 339—258.
Batcheller, Kent J., and D. R. McDougall, to The Thomas & Betts Co., Inc. Link for series of connectors. 3,147,086, 9–1–64, Cl. 29—180.
Batchelor, James D., G. P. Curran, R. J. Friedrich, and E. Gorin, to Consolidation Coal Co. Production of low sulfur formcoke. 3,117,918, 1–14–64, Cl. 202—26.
Batchelor, John H., and N. S. Dennis, to Rotary Juicer Co., Inc. Fruit juice extracting device. 3,154,122, 10–27–64, Cl. 146—3.
Batchelor, Robert L. Lubricating system. 3,148,747, 9–15–64, Cl. 184—15.
Batchelor, William L., to Allied Thermal Corp. Air damper. 3,119,320, 1–28–64, Cl. 98—40.
Batcher, Ralph R., to Irwin F. Mills Associates. Portable heating trays. 3,141,090, 7–14–64, Cl. 219—438.
Bateman, Bryce C., to Packard-Bell Electronics Corp. Garage door opening device. 3,119,608, 1–28–64, Cl. 268—74.
Bateman, Franklin L., to Jervis B. Webb Co. Trolley construction. 3,123,016, 3–3–64, Cl. 105—154.
Bateman, Henry S.: *See*—
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Bateman, Joseph L. Pipeworking machine. 3,159,071, 12–1–64, Cl. 83—411.
Bateman, Lawrence G., to Delamere & Williams Co., Ltd. Bag making machine and method. 3,147,168, 9–1–64, Cl. 156—290.
Bates, Arthur I., to FMC Corp. Cyanoethylation and xanthation of alkali cellulose. 3,146,116, 8–25–64, Cl. 106—165.
Bates, Charles E., W. E. Brown, D. C. Redick, J. F. Ault, L. Stottlemeyer, and A. Heiny, to General Motors Corp. Dynamoelectric machine. 3,146,362, 8–25–64, Cl. 310—68.
Bates, Howard J., R. A. Spry, and R. E. Murray, to The Rucker Co. Vector alignment device. 3,142,169, 7–28–64, Cl. 73—1.
Bates, James O.: *See*—
Francais, Richard K., Hauenstein, and Bates. 3,137,128.
Bates, John K., Jr., to HRB-Singer, Inc. Voltage ratio to time difference translator. 3,161,766, 12–15–64, Cl. 235—195.
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Bates, Marshall S.: *See*—
Nelson, Jeffery N., Bennington, and Bates. 3,142,920.
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Chisholm, John P., Bates, and Russell. 3,161,869.
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Roehn, Herbert F., Jr. 3,119,353.
Batesvile Casket Co., Inc.: *See*—
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Bath, Cyril Co., The: *See*—
Bath, Cyril J. 3,116,780.
Dolney, Stanley M. 3,138,192.
Seavers, Edward W. 3,148,721.
Bath, Cyril J., to The Cyril J. Bath Co. Prestretch fixture and combination thereof with drawing die press. 3,116,780, 1–7–64, Cl. 153—48.
Bath Iron Works Corp.: *See*—
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Danyluke, Ostap. 3,162,386.
Batista, Harry J., and A. J. Guerriero. Egg-shaped gelatin molding system. 3,161,156, 12–15–64, Cl. 107—19.
Batko, Adam D., to Village of Edina. Attachment for material moving vehicles such as graders and the like. 3,148,-466, 9–15–64, Cl. 37—156.
Batlas, George X., and S. Baranski. Rolls of paper toweling and dispensers therefor. 3,126,234, 3–24–64, Cl. 312—39.
Batley, James V., to International Business Machines Corp. Core driver checking circuit. 3,157,860, 11–17–64, Cl. 340—174.
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Batou, Boris, to Anstalt fur die Enlwicklung von Erfindungen und gewerblichen Anwendungen Energa. Rifle-grenades. 3,156,187, 11–10–64, Cl. 102—41.
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Batt, Richard W., to United Aircraft Corp. Mounting system for accessory case. 3,155,352, 11–3–64, Cl. 248—17.
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Battarel, Claude, to International Business Machines Corp. Binary logic circuits. 3,134,025, 5–19–64, Cl. 307—88.
Battell, Leslie C., D. B. McIlvin, and R. L. Peterson, to United Shoe Machinery Corp. Plastic injection molding machines. 3,131,432, 5–5–64, Cl. 18—30.
Battelle Development Corp., The: *See—*
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King, Robert W., Mitchell, and Vogelhuber. 3,159,149.
McCrory, Rollin J., Creswick, and King. 3,143,282.
McCrory, Rollin J., and Mark. 3,120,220.
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Battelle Memorial Institute: *See—*
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Bauder, Ulrich, and O. Barthelmess, to Fr. Hesser Maschinenfabrik-Aktiengesellschaft, Firma. Volumetric dispensing device with radioactive control means. 3,120,607, 2–4–64, Cl. 250—43.5.
Bauder, Ulrich, and H. Paal, to Fr. Hesser Maschinenfabrik-Aktiengesellschaft, Firma. Packaging container. 3,135,451, 6–2–64, Cl. 229—5.5.
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Baudoin, Louis, to Compagnie de Construction Electrique. Electric induction watt-hour meter with separate voltage and current magnetic structures and current flux adjusting means. 3,123,770, 3–3–64, Cl. 324—137.
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Bauer, Herbert, to Radio Corp. of America. Magnetic recording element having diisocyanate-based elastomer binder and method for preparing same. 3,150,995, 9–29–64, Cl. 117—138.8.
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Bauer, La Verne N., to Rohm & Haas Co. Compositions comprising a petroleum liquid and an N-vinyl pyrrolidinone polymer. 3,147,222, 9–1–64, Cl. 252—51.5.
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Baum, Bernard O., to Union Carbide Corp. Propylene resin stabilized with a mixture of a para-tertiaryalkylphenol-formaldehyde resin and an aminodithioformate. 3,119,784, 1–28–64, Cl. 260—43.
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Baumgartner, Pierre, and P. Duhaut, to Institut Francais Petrole, des Carburants et Lubrifants. Process for manufacturing chlorine by oxidation of hydrochloric acid. 3,152,870, 10–13–64, Cl. 23—219.
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Baumgartner, William H., and A. Druschitz, to Teletype Corp. Manual unshift mechanism for teletypewriters. 3,124,646, 3–10–64, Cl. 178—25.
Baumgartner, Willy, C. Baumberger, and A. Jaques, to Gesellschaft zur Foerderung der Forschung an der Eidg. Techn. Hochschulle. Arrangement for amplifying the brightness of an optically formed image. 3,137,762, 6–16–64, Cl. 88—61.
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Baur, Fredric J., and E. S. Uutton, to The Procter & Gamble Co. Salad oils and method of making them. 3,158,490, 11–24–64, Cl. 99—118.
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Bavley, Abraham: *See*—
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Bawcom, James S., and F. G. Weeden, Jr., to John L. Dore Co. Lined vacuum bellows. 3,139,115, 6–30–64, Cl. 138—121.
Bawn, Cecil E. H., and M. R. Clarke, to Monsanto Chemicals Ltd. Polymerization process. 3,155,643, 11–3–64, Cl. 260—94.9.
Bawtinheimer, Charles E. Method of forming workpieces. 3,143,901, 8–11–64, Cl. 77—32.2.
Baxley, William H., W. A. Biggs, Jr., and W. R. Cook, to Sonoco Products Co. Process for recovery of fat-resin constituents from black liquor. 3,138,580, 6–23–64, Cl. 260—97.
Baxter, Benjamin. Externally operated gate valve for irrigation conduits. 3,141,649, 7–21–64, Cl. 251—176.
Baxter, Benjamin. Fluid dispensing device. 3,159,172, 12–1–64, Cl. 137—236.
Baxter, Clyde W., and D. W. Weber, to Collins Radio Co. A.F.C. spectrum lock-in circuit. 3,155,919, 11–3–64, Cl. 331—19.
Baxter, Don, Inc.: *See*—
Barton, Raymond W., Heckel, Prickett, and Swenson. 3,161,310.
Barton, Raymond W., and Herron. 3,143,251.
Coanda, George. 3,149,186.
Hamilton, Donald A. 3,138,827.
Baxter, Donald L., and F. C. Summers, to Reliable Electric Co. Ready access cable housing. 3,153,693, 10–20–64, Cl. 174—40.
Baxter, Ernest W., to Baxter Products Co. Liquid measuring and dispensing device. 3,128,919, 4–14–64, Cl. 222—207.
Baxter Filtration Corp.: *See*—
Baxter, Thomas D. 3,121,681.
Baxter, J. H., & Co.: *See*—
Best, Charles W., and Napier. 3,125,141.
Baxter, John R., R. W. Cumming, D. B. Fraser, and J. C. Lane, to Commonwealth of Australia, Crown Solicitor's Office. Glide path guidance means for aircraft. 3,152,316, 10–6–64, Cl. 340—26.
Baxter, Joseph, Jr., to The Black-Clawson Co. Paper making pulp refiner. 3,162,385, 12–22–64, Cl. 241—163.
Baxter Laboratories, Inc.: *See*—
Bellamy, David, Jr. 3,123,072.
Bellamy, David, Jr., and Welch. 3,127,892.
Berger, Arthur, and Borgaes. 3,121,111.
Harrison, Robert R. 3,119,391.
Harrison, Robert R., and Waldman. 3,140,716.
Waldman, Leonard F., Jr. 3,163,164.
Baxter Products Co.: *See*—
Baxter, Ernest W. 3,128,919.
Baxter, Thomas D., to Baxter Filtration Corp. Industrial filter. 3,121,681, 2–18–64, Cl. 210—104.
Baxter, Thomas E. Cast ventilating arrangement. 3,116,731, 1–7–64, Cl. 128—91.
Baxter, Thomas R., to Continental Can Co., Inc. Special package. 3,129,815, 4–21–64, Cl. 206—56.
Baxter, Warren N. Preparation of caprolactam. 3,139,423, 6–30–64, Cl. 260—239.3.
Bay, Harry. Multiple exposure device for cameras. 3,124,050, 3–10–64, Cl. 95—36.
Bay, James, to Jeffrey Galion Mfg. Co. Clip unit for holding removable and replaceable idler rollers in a mounting stand. 3,157,272, 11–17–64, Cl. 198—192.
Bayard, Thomas J. Rotary cutter having multiple cutting surfaces. 3,125,807, 3–24–64, Cl. 30—34.
Baybick, Solomon, and S. M. Shelley, to Radio Corp. of America. Braking mechanism for tape feeding apparatus. 3,123,181, 3–3–64, Cl. 188—65.1.
Baycura, Orestes M., D. F. Busch, P. Essinger, and J. F. O'Donnell, to International Business Machines Corp. Ferroresonant transformer with saturating control winding. 3,148,326, 9–8–64, Cl. 323—56.
Bayer, Christian L., and N. EnHolm. Fluid metering method and apparatus. 3,134,508, 5–26–64, Cl. 222—135.
Bayer, Franz: *See*—
Rau, Christian A., Frank, and Bayer. 3,136,371.
Bayer, Gerhard, to Owens-Illinois Glass Co. Manganese oxide ceramics, and method for their preparation. 3,157,523, 11–17–64, Cl. 106—65.
Bayer, Otto: *See*—
Bunge, Wilhelm, Bayer, and Mielke. 3,122,451.
Malz, Hugo, Bayer, Freytab, and Kühle. 3,135,735.
Merten, Rudolf, Bayer, Simmler, and Loew. 3,134,741.
Müller, Erwin, Bayer, Braun, and Scheurlen. 3,134,755.
Nischk, Günther, Münz, Bayer, and Theis. 3,140,273.
Thoma, Wilhelm, Bayer, and Rinke. 3,135,711.
Bayer, Willi. String and process for its manufacture. 3,120,144, 2–4–64, Cl. 84—199.
Bayers, George W., Jr. Coin-operated vending machine for alcoholic beverages. 3,119,485, 1–28–64, Cl. 194—13.
Bayes, Alfred W., to Ashton Brothers & Co. Ltd. Bed clothing and the like. 3,139,913, 7–7–64, Cl. 139—391.
Bayha, Jack E., and G. E. Hammond, to Assembly Products, Inc. Peak reading meter utilizing periodically interrupted locking contact. 3,139,580, 6–30–64, Cl. 324—103.
Bayless, Jack H., to Jersey Production Research Co. Fluid flow control in wells. 3,120,267, 2–4–64, Cl. 166—53.
Bayley, Donald S.: *See*—
Ten Bosch, Maurits, and Bayley. 3,119,259.
Bayley, Volney P. Method and apparatus for imparting and recording comparative instruction of a motion skill. 3,145,484, 8–25–64, Cl. 35—29.

Bayliss, Ernest G., to Forgings and Presswork Ltd. Method for parting-off a length from metal bar stock. 3,155,300, 11–3–64, Cl. 225—2.
Baylor Medical Foundation: *See*—
Melnick, Joseph L., and Wallis. 3,128,229.
Melnick, Joseph L., and Wallis. 3,128,231.
Bayly, John G., and W. H. Stevens, to Atomic Energy of Canada Ltd. Apparatus for determining the quantity of contaminant in a substance. 3,153,722, 10–20–64, Cl. 250—43.5
Bayne, Henry G.: *See*—
Garibaldi, John A., and Bayne. 3,131,067.
Bayne, Peter D.: *See*—
McFarlane, William D., Bayne, Azorlosa, and Martinelli. 3,117,004.
Bayne, Robert T., to Varo Inc., Electrokinetics Div. Apparatus for the remote measurement of capacitance. 3,159,-786, 12–1–64, Cl. 324—60.
Bays, Marvin G., G. L. Brown, and H. A. Wakefield, to Continental Oil Co. Seismic transducer and cushion device therefor. 3,143,181, 8–4–64, Cl. 181—.5.
Bayuk Cigars Inc.: *See*—
Bradley, Fred L., and Wurman. 3,126,093.
Cain, James F., Grabosky, and Gurdack. 3,126,106.
Bazinet, Wilfred P., Jr., to American Optical Co. Method of forming multi fiber structure. 3,119,678, 1–28–64, Cl. 65—2.
Bazinet, Wilfred P., Jr., to American Optical Co. Flexible tubular structures. 3,162,214, 12–22–64, Cl. 138—120.
Beach, Arthur V.: *See*—
Atkins, John H., and Beach. 3,117,890.
Beach, David E., to Eastman Kodak Co. Camera take-up reel release mechanism. 3,137,457, 6–16–64, Cl. 242—71.6.
Beach, Ralph L., Jr., to International Paper Co. Container. 3,117,710, 1–14–64, Cl. 229—17.
Beachler, Edward D.: *See*—
Hornbostel, Lloyd, and Beachler. 3,129,135.
Justus, Edgar J., and Beachler. 3,126,761.
Justus, Edgar J., and Beachler. 3,134,653.
Beachy, Alvie R.: *See*—
Smoker, Isaac Z. and N. B., Beachy, and Beiler. 3,132,-754.
Beacon, John H. A. Apparatus for use in the cultivation of plants. 3,144,732, 8–18–64, Cl. 47—34.13.
Beacon Plastic & Metal Products Inc.: *See*—
Spier, I. Martin. 3,140,020.
Beacon Plastics Corp.: *See*—
Nutting, Charles E. 3,140,329.
Beadex Dry Wall Specialties, Inc.: *See*—
Dunlap, Arthur H. 3,130,821.
Beadle, John C. W., and J. Gregory, deceased (by R. W. Lock and B. M. Gregory, representatives), to G. Q. Parachute Co. Ltd. Load-extraction from aircraft. 3,141,641, 7–21–64, Cl. 244—139.
Beal, Edward W.: *See*—
Roth, Wilfred, and Beal. 3,155,883.
Beal, James F. Buoyant net and safety cover for swimming pools. 3,128,478, 4–14–64, Cl. 4—172.
Beal, Philip F., III, and R. W. Jackson, to The Upjohn Co. 15-methyl derivatives of cortical hormones. 3,147,248, 9–1–64, Cl. 260—239.55.
Beale, Julian R. A., and A. F. Beer, to North American Philips Co., Inc. High-frequency transistor. 3,160,799, 12–8–64, Cl. 317—235.
Beale, Stanley E.: *See*—
Schwab, Helmut, Beale, and Anderson. Re. 25,595.
Beall, Charles T. Belt drive for track type tractor. 3,120,-409, 2–4–64, Cl. 305—13.
Beall, Edythe E.: *See*—
Beall, Francis W. 3,127,289.
Beall, Francis W., deceased, by E. E. Beall, executrix, to Armco Steel Corp. Method of decarburizing steel coil. 3,127,-289, 3–31–64, Cl. 148—16.
Beall, Glenn L. Catheter. 3,136,316, 6–9–64, Cl. 128—350.
Beall, Glenn L., and J. E. Alder, to Abbott Laboratories. Apparatus for the induced infusion of liquid from a flexible liquid container. 3,153,414, 10–20–64, Cl. 128—214.
Beam, Benjamin H. Thermo-electrostatic generator. 3,147,-390, 9–1–64, Cl. 310—4.
Beam Guidance, Inc.: *See*—
Hafner, Theodore. 3,150,371.
Beam, Harry L.: *See*—
Riley, Robert H., Jr., and Beam. 3,161,954.
Beam, Paul E., Jr., to General Motors Corp. Cooled rocket nozzle. 3,137,998, 6–23–64, Cl. 60—35.6.
Beaman, Bernard: *See*—
Fisher, Bernard, and Beaman. 3,134,036.
Beaman, Charles A., and R. L. Kraley, to General Dynamics Corp. Voltage comparator system. 3,120,663, 2–4–64, Cl. 307—88.5.
Beaman, John B., Jr.: *See*—
Ott, Vivian L., and Beaman. 3,140,575.
Ott, Vivian L., and Beaman. 3,152,431.
Beamish, Bernard D., and W. B. Weis; said Weis assor. to said Beamish. Apparatus for folding sheets. 3,133,732, 5–19–64, Cl. 270—61.
Beam-Matic Hospital Supply Inc.: *See*—
Marcus, Benjamin. 3,137,393.
Beams, Jessie T. Pontoon boat. 3,143,992, 8–11–64, Cl. 114—61.
Bean, Arthur I., to The Fellows Gear Shaper Co. Cutter testing mechanism. 3,120,063, 2–4–64, Cl. 33—179.5.
Bean, Arthur R., Jr.: *See*—
Moss, F Dudley, and Bean. 3,119,800.
Bean, Claude T.: *See*—
Blair, Noel D., and Bean. 3,151,992.
Robitschek, Paul, and Bean. 3,131,115.
Bean, David W., H. N. Eagleton, R. R. Olson, O. Praeger, Jr., B. P. Schaberg, and D. J. Vinson, to Colorado Interstate Gas Co. Method and system for gas transmission. 3,148,-689, 9–15–64, Cl. 137—1.
Bean, Kenneth E., and W. E. Medcalf, to The Eagle-Picher Co. Process for producing crystalline silicon over a substrate and removal therefrom. 3,128,154, 4–7–64, Cl. 23—223.5.
Bean, Lawrence H. Method of rough registration for reprinting on a flexographic printing press. 3,160,094, 12–8–64, Cl. 101—181.
Bean, William T., Jr., to American Electrical Heater Co. Electric soldering iron. 3,134,884, 5–26–64, Cl. 219—233.
Bear, Fred B., to Grayling State Bank. Archery bow. 3,120,222, 2–4–64, Cl. 124—24.
Bear Mfg. Co.: *See*—
MacMillan, Charles W. 3,135,052.
McCormick, Maurice D. 3,129,516.
Bear, Marshall D.: *See*—
Ford, James R., and Bear. 3,140,487.
Beard, Chester S., and F. R. Hedger, to General Controls Co. Electrohydraulic control system. 3,120,103, 2–4–64, Cl. 60—52.
Beard, Edward S. Feeder for tubular knit fabrices. 3,126,-606, 3–31–64, Cl. 26—55.
Beard, John H., to Taylor Mfg. Co. Bottle case inverter. 3,119,139, 1–28–64, Cl. 15—304.
Beard, Ray D.: *See*—
Roorda, Harry W., Gresch, and Beard. 3,155,082.
Bearden, Olen. Teletypesetter perforator attachment. 3,127,982, 4–7–64, Cl. 199—18.
Bearden, William G., and G. C. Howard., to Pan American Petroleum Corp. Cementing casing. 3,126,958, 3–31–64, Cl. 166—29.
Beardow, George M., to Vitramon, Inc. Push rod or similar device. 3,156,806, 11–10–64, Cl. 200—172.
Beardow, George M., to Vitramon, Inc. Means for adjustable mounting switch units. 3,157,754, 11–17–64, Cl. 200—22.
Beardslee, Lewis D., to Montcalm Inc. Absorption refrigeration apparatus. 3,138,938, 6–30–64, Cl. 62—141.
Beardslee, Lewis D., to Montcalm Inc. Absorption refrigeration apparatus. 3,141,307, 7–21–64, Cl. 62—141.
Beardsley, Kenneth D., and E. J. Wilk, to General Electric Co. Method of making magnetic cores. 3,122,821, 3–3–64, Cl. 29—155.57.
Beardsley, Melville W.: *See*—
Alper, William H., and Beardsley. 3,130,939.
Beardsley, Melville W., to National Research Associates, Inc. Air cushion vehicle for travelling over irregular terrain. 3,139,947, 7–7–64, Cl. 180—7.
Beardsley, Melville W., to National Research Associates, Inc. Water traversing air cushion vehicle. 3,140,687, 7–14–64, Cl. 114—67.
Beare, Berniece: *See*—
Schoeppell, Ray. 3,117,399.
Beare, Elmer: *See*—
Schoeppell, Ray. 3,117,399.
Beasley, George A., to Univis, Inc. Lens blocking device. 3,140,568, 7–14–64, Cl. 51—216.
Beasley, Hershel V.: *See*—
Gullotti, Damian, Hurley, and Beasley. 3,131,056.
Beasley, Max M., to The Singer Co. Yarn threading mechanism for a pattern attachment for tufting machines. 3,134,529, 5–26–64, Cl. 226—110.
Beasley, Max M., to The Singer Co. Apparatus for making patterned pile fabric. 3,157,554, 11–17–64, Cl. 156—435.
Beason, Elmer C.: *See*—
Mader, George E., Jr., and Beason. 3,151,428.
Beason, Elmer C., Jr.: *See*—
Buttolph, Doyle D., and Beason. 3,131,521.
Beason, George C., and C. E. Stichweh, to The National Cash Register Co. Detent controlling mechanism. 3,158,318, 11–24–64, Cl. 235—146.
Beason, Raymond C., and B. J. Beitman, Jr., to Collins Radio Co. Motion and direction sensing device. 3,120,655, 2–4–64, Cl. 340—271.
Beason, Robert V.: *See*—
Williams, Harley H., and Beason. 3,140,855.
Beaton, Brian M., to General Electric Co. Radio controlled public warning system utilizing carrier current. 3,130,369, 4–21–64, Cl. 325—364.
Beatrice Foods Co.: *See*—
Noznick, Peter P., Bundus, and Eggen. 3,126,283.
Beattie, Clifford G., and V. D. Gumbert, to Allegheny Ludlum Steel Corp. Control system for surfacing apparatus. 3,149,439, 9–22–64, Cl. 51—34.
Beattie-Coleman, Inc.: *See*—
Beattie, James S. 3,118,357.
Marjoram, Ernest B. 3,118,358.
Marjoram, Ernest B., and Hedglin. 3,118,360.
Beattie, Jackson R., to Ford Motor Co. Ullage rod. 3,147,-554, 9–8–64, Cl. 33—126.7.
Beattie, James S., to Beattie-Coleman, Inc. Camera. 3,118,-357, 1–21–64, Cl. 95—11.
Beattie, Kenneth B. and R. P. Beattie, II, to Kenro Graphics, Inc. Lighting system for photographic cameras. 3,119,-301, 1–28–64, Cl. 88—24.

Beattie, Robert D., and D. F. Othmer. Vapor-liquid contacting and mass transfer. 3,151,043, 9–29–64, Cl. 202—40.

Beattie, Roland P., II: *See*—
Beattie, Kenneth B. and R. P. Beattie, II. 3,119,301.

Beattie, William C., T. Champion, and E. C. Prowse, to Drake Block Co., Inc. Air-cooled burner ring. 3,130,773, 4–28–64, Cl. 158—1.5.

Beatty, Milton R., to D. G. Carty and S. J. Ternyak. Lock device for telephones. 3,124,664, 3–10–64, Cl. 179—189.

Beaty, Charles A., to Trak Microwave Corp. Miniature triode oscillator for high frequency operation. 3,162,823, 12–22–64, Cl. 331—97.

Beau, Charles, to Brown, Boveri & Cie, Aktiengesellschaft. Electrical fuse of the cartridge type incorporating cylindrical assembly of fusible links. 3,147,355, 9–1–64, Cl. 200—131.

Beauchamp, Wilfred A., to The Youngstown Steel Door Co. Sliding gates and operating assembly for railway hopper cars. 3,127,852, 4–7–64, Cl. 105—253.

Beauchamp, Wilfred A., to The Youngstown Steel Door Co. Aluminum doors for box cars. 3,127,963, 4–7–64, Cl. 189—46.

Beaudet, Wilfrid A. Grapples for lifting apertured items. 3,132,890, 5–12–64, Cl. 294—86.

Beaudoin, Norman R., and L. T. Stegmaier, to General Electric Co. Enclosed electric switch with rotary type operating handle and interlocking mechanism. 3,141,934, 7–21–64, Cl. 200—50.

Beaudry, John B.: *See*—
Beaudry, John R. 3,124,663.

Beaudry, John R., ½ to J. B. Beaudry. Hearing aid noise suppressor. 3,124,663, 3–10–64, Cl. 179—107.

Beaufils, Nicloe, and Y. Landler, to Pneumatiques Caoutchouc Manufacture et Plastiques Kleber Colombes, a.k.a. Kleber Colombes. Process for rendering linear polyester fibers adherent to polymers of vinyl chloride. 3,160,516, 12–8–64, Cl. 117—76.

Beaujard, Louis, J. Mondot, and M. Kapluszak, to Institut de Recherches de la Siderurgie Francaise. Ultrasonic inspection. 3,159,756, 12–1–64, Cl. 310—8.7.

Beaulieu, Delton C., and R. W. Martinek, to Kimberly-Clark Corp. Papermaking machine. 3,163,066, 12–29–64, Cl. 83—91.

Beaulieu, John L., to Golay and Co., Inc. Portable washing unit for tanks. 3,130,676, 4–28–64, Cl. 103—87.

Beaulieu, Raymond D., to Monsanto Co. Resin treated flexible battery separators. 3,161,547, 12–15–64, Cl. 136—146.

Beaulieu, Roland J. Sliding contact brushes. 3,157,770, 11–17–64, Cl. 200—166.

Beaumann, Raymond, to Derby S.A. Watch movement. 3,129,556, 4–21–64, Cl. 58—59.

Beaumann, Raymond, to Derby S.A. Watch movement. 3,138,916, 6–30–64, Cl. 58—59.

Beaumont, Lewis, to The Metal Box Co. of South Africa Ltd. Method of coating the inside surface of a container with palladium and adhesive for vacuum-packing of edible and like products. 3,123,491, 3–3–64, Cl. 117—8.

Beaumont, Richard W., to Ingersoll-Rand Co. Rock drill. 3,130,800, 4–28–64, Cl. 175—293.

Beaumont, Warren L.: *See*—
Crowther, Milton, Beaumont, and Kesler. 3,118,952.

Beaupre, Howard J., and C. M. Mesecke, to Texas Instruments Inc. Infrared detector and method of making same. 3,128,253, 4–7–64, Cl. 252—501.

Beauregard, Theodore: *See*—
Wolfe, Harmon M. 3,147,979.

Beauty Industries, Inc.: *See*—
Reeves, Frank S. 3,120,066.

Beaver, Bernard F., and W. O. Haberman, to Ralston Purina Co. Fly bait compositions containing dioctyl phthalates. 3,160,556, 12–8–64, Cl. 167—48.

Beaver, David J.: *See*—
Stoffel, Paul J., and Beaver. 3,149,031.
Stoffel, Paul J., and Beaver. 3,160,655.

Beaver, David J., and P. J. Stoffel, to Monsanto Co. Antiseptic detergent formulations containing halogenated carbanilates. 3,142,646, 7–28–64, Cl. 252—106.

Beaver, Garth H., and D. E. Cobb, to The Dow Chemical Co. Heat-sensitive water soluble cellulose ether compositions. 3,124,474, 3–10–64, Cl. 106—189.

Beaver Precision Products, Inc.: *See*—
Doran, Leo F. 3,128,611.
Doran, Leo F. 3,130,522.
Doran, Leo F. 3,145,599.

Beaver, Richard C., to Quadrant Engineering Corp. Means and method for purging a hydraulic system. 3,154,087, 10–27–64, Cl. 137—15.

Beaver Tool & Engineering Corp.: *See*—
Iacco, Albert A. 3,162,457.

Beaver, Victor E.: *See*—
Pappas, Charles A. 3,159,909.

Beaver, Wallace W., and B. B. Lympany, to The Brush Beryllium Co. Process for the production of ammonium beryllium compounds. 3,123,438, 3–3–64, Cl. 23—88.

Beaver, Wallace W., R. M. Paine, and A. J. Stonehouse, to The Brush Beryllium Co. Beryllium-tantalum composition. 3,150,970, 9–29–64, Cl. 75—174.

Beaver, Wallace W., R. M. Paine, and A. J. Stonehouse, to The Brush Beryllium Co. Method of making intermetallic compound-composition bodies. 3,150,975, 9–29–64, Cl. 75—214.

Beavers, Herman. Dual master cylinder. 3,157,034, 11–17–64, Cl. 60—54.6.

Beavon, David K.: *See*—
Goldsby, Arthur R., Beavon, and Flynn. 3,121,126.

Beavon, David K., to Texaco Inc. Alkylation process with assisted deisobutanizing. 3,162,694, 12–22–64, Cl. 260—683.62.

Bebb, Herbert B., H. E. Heath, R. B. Hilborn, Jr., and F. S. Maddocks, to International Business Machines Corp. Thin film color display device. 3,141,920, 7–21–64, Cl. 88—1.

Bebco Experimental & Mfg. Co.: *See*—
Calabrese, William L. 3,123,923.
Jackson, Elmer W., Jr. 3,162,477.

Beber, Arthur. Disposable nasal filter. 3,145,711, 8–25–64, Cl. 128—48.

Beber, Oral L.: *See*—
Carr, Norman L., Beber, and Brozowski. 3,142,713.

Bebinger, Jack E., to General Electric Co. Stopper for food waste disposer. 3,154,256, 10–27–64, Cl. 241—46.

Becher, Harold, and C. B. Hatfield, to Strato-Missiles, Inc. Positive displacement pump. 3,162,359, 12–22–64, Cl. 230—149.

Bechik Products, Inc.: *See*—
Flightner, Donald O. 3,120,009.

Bechman, William O.: *See*—
Swanson, F. V. Knight, Pueschner, Erickson, and Bechman. 3,126,927.

Becht, Cletus A., R. C. Gordon, N. Jouriles, and R. W. Sheatsley, to Goodyear Aerospace Corp. Plastic foam mixer. 3,142,477, 7–28–64, Cl. 259—44.

Bechtel, Paul B.: *See*—
Clemons, Vernon B., and Bechtel. 3,133,619.

Bechtle, Richard: *See*—
Neander, Erich, and Bechtle. 3,132,291.

Bechtold, Ira C.: *See*—
Alexander, Ford I., and Bechtold. 3,153,339.

Bechtold, Max F., to E. I. du Pont de Nemours and Co. Process for preparing printing element stencils from clarifiable polymeric materials. 3,149,967, 9–22–64, Cl. 96—27.

Bechtold, Max F., to E. I. du Pont de Nemours and Co. Composition containing iron, molybdenum, silicon and selected low-melting metals. 3,161,948, 12–22–64, Cl. 29—182.5.

Bechtold, Max F., and E. L. Little, Jr., to E. I. du Pont de Nemours and Co. High temperature resistant metal. 3,128,541, 4–14–64, Cl. 29—182.5.

Beck, Alfred. Cylindrical thread cutting tool having a chamfered rear section on the forward conical thread cutting portion. 3,125,772, 3–24–64, Cl. 10—111.

Beck, Basil D., to Owens-Illinois Glass Co. Refractory structure for molden glass. 3,123,345, 3–3–64, Cl. 263—46.

Beck, Carl E.: *See*—
Walker, Harry M., and Beck. 3,116,794.

Beck, Carl E., 10% to C. R. Beck. Pump. 3,138,109, 6–23–64, Cl. 103—127.

Beck, Carl R.: *See*—
Beck, Carl E. 3,138,109.

Beck, Donald J.: *See*—
Owl, George A., Ley, and Beck. 3,137,460.

Beck, Edward, to Crawford Fitting Co. Support for optical devices. 3,133,719, 5–19–64, Cl. 248—187.

Beck, Edward S.: *See*—
Lox, Walter E., and Beck. 3,137,666.

Beck, Edwin C., and L. H. Saylor, to Sealed Power Corp. Combined compression and oil ring assembly. 3,151,868, 10–6–64, Cl. 277—140.

Beck, Edwin H., to Manufacturers Supplies Co. Presser foot for high speed skiving machine. 3,133,434, 5–19–64, Cl. 69—9.5.

Beck, Edwin H., to Manufacturers Supplies Co. Mechanism for sharpening the bell knife of a skiving machine. 3,157,008, 11–17–64, Cl. 51—247.

Beck, Frederick R., and W. H. Jones, to Controls Co. of America. Timer controlled pressure operated dispenser. 3,124,271, 3–10–64, Cl. 222—70.

Beck, George, E. H. Bowers, P. H. Brown, and O. Thoma, to Dowty Hydraulic Units Ltd., and O. Thoma. Hydraulic pumps or motors. 3,137,243, 6–16–64, Cl. 103—162.

Beck, Harold L.: *See*—
Rosenkrands, John W., Beck, and Boettger. 3,121,561.

Beck, Henry C., H. E. Fowler, and F. J. Delmerico, to United States of America, Navy. Support structure for underwater sensing equipment. 3,160,847, 12–8–64, Cl. 340—4.

Beck, Henry E., to Caterpillar Tractor Co. Automatic positioning device for material handling bucket. 3,122,247, 2–25–64, Cl. 214—140.

Beck, Henry N.: *See*—
Alsgaard, Richard W., Beck, and Plueddemann. 3,137,599.
Alsgaard, Richard W., Beck, and Plueddemann. 3,146,248.
Alsgaard, Richard W., Beck, and Plueddemann. 3,146,249.

Beck, Henry N., to Dow Corning Corp. Silethylenesilarylenes and siloxane derivatives thereof. 3,162,663, 12–22–64, Cl. 260—448.2.

Beck, Henry T. Lighting fixture with supporting clip. 3,127,229, 3–31–64, Cl. 339—99.

Beck, Howard G., to The General Tire & Rubber Co. Pneumatic closure for multicompartment receptacle. 3,151,650, 10–6–64, Cl. 150—1.

Beck, Hugo M., to United States of America, Navy. Electronic real time statistical analyzer. 3,151,312, 9–29–64, Cl. 340—172.5.

Beck, Hugo M., to United States of America, Navy. Passive transistor-magnetic core switching system. 3,156,904, 11–10–64, Cl. 340—174.

Beck, Jacob H., to BTU Engineering Corp. Heat treating apparatus. 3,138,372, 6–23–64, Cl. 263—37.

Beck, Jerry G., G. E. F. Brewer, G. L. Burnside, J. W. Mistele, and J. Smarsh, to Ford Motor Co. Method for filling electrically charged receptacle. 3,122,320, 2–25–64, Cl. 239—3.

Beck, John H., and A. B. Stiles, to E. I. du Pont de Nemours and Co. Preparation of supported catalysts. 3,161,605, 12–15–64, Cl. 252—455.

Beck, Julius S. Seal for a suspension drilling device. 3,128,102, 4–7–64, Cl. 277—17.

Beck, Leonard H., to Wyandotte Chemicals Corp. Process for the preparation of carboxylic acids. 3,154,549, 10–27–64, Cl. 260—250.

Beck, Martin L., Jr. Grass planter. 3,159,121, 12–1–64, Cl. 111—1.

Beck, Nelson: *See*—
Adam, Folger, Browning, Stapay, and Nelson. 3,142,166.

Beck, Nicholas R. Method of providing a cooked meat and sauce package. 3,132,029, 5–5–64, Cl. 99—174.

Beck, Robert J., to Duff-Norton Co. Nut and screw mechanism. 3,135,497, 6–2–64, Cl. 254—103.

Beck, Roland D.: *See*—
Rice, Harold W., and Beck. 3,122,616.

Beck, Roland D., to Robertshaw Controls Co. Pneumatic control device. 3,143,141, 8–4–64, Cl. 137—625.2.

Beck, Rudolf, to Hans J. Zimmer Verfahrenstechnik. Angular position signal generator. 3,158,826, 11–24–64, Cl. 336—30.

Beck, Walther: *See*—
Wagner, Anton, Beck, and Diskus. 3,123,526.

Beck, Warren R.: *See*—
Tung, Chi F., and Beck. 3,149,016.

Beck, Wayne W.: *See*—
Hill, Earl W., and Beck. 3,129,631.

Beckadolph, Richard, to Continental Gummi-Werke Aktiengesellschaft. Pneumatic vehicle tire. 3,118,483, 1–21–64, Cl. 152—361.

Beckadolph, Richard, to Continental Gummi-Werke Aktiengesellschaft. Pneumatic tire with reinforcement in zenith portion thereof. 3,123,122, 3–3–64, Cl. 152—330.

Beckadolph, Richard, to Continental Gummi-Werke Aktiengesellschaft. Pneumatic tire with angular reinforcement. 3,126,936, 3–31–64, Cl. 152—341.

Beckadolph, Richard, to Continental Gummi-Werke Aktiengesellschaft. Pneumatic vehicle tire. 3,161,220, 12–15–64, Cl. 152—356.

Beckenhauer, William H., and A. L. Brown, to Norden Laboratories, Inc. Hog cholera vaccine and method of making the same. 3,122,477, 2–25–64, Cl. 167—80.

Becker, Arnold F., to Bemis Bro. Bag Co. Bags. 3,129,871, 4–21–64, Cl. 229—62.5.

Becker, Arnold F., to Bemis Bro. Bag Co. Manufacture of bags. 3,143,936, 8–11–64, Cl. 93—35.

Becker, Bernard B., to Lewis-Shepard Co. Hydraulic hose take up. Re. 25,548, 4–7–64, Cl. 214—653.

Becker, Bernard B., to Lewis-Shepard Co. Mechanism for extending and retracting a load supporting member on an industrial truck. 3,162,317, 12–22–64, Cl. 214—731.

Becker, Charles H., to United-Carr Inc. Bowden wire clip. 3,154,277, 10–27–64, Cl. 248—73.

Becker, Charles H., to United-Carr Inc. Bowden wire clip. 3,154,278, 10–27–64, Cl. 248—73.

Becker, Charles W.: *See*—
Surls, Joseph P., Jr., Becker, and Mod. 3,131,994.

Becker, Earl M., and J. J. Bridge, to Mine Safety Appliances Co. Breathing apparatus. 3,129,707, 4–21–64, Cl. 128—142.

Becker, Edward J.: *See*—
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Becker, Floyd K., and J. R. Davey, to Bell Telephone Laboratories, Inc. Bipolar binary digital data vestigial sideband system. 3,152,305, 10–6–64, Cl. 325—50.

Becker, Frank E., to General Electric Co. Sheet-type heater and overheat protection device. 3,143,640, 8–4–64, Cl. 219—20.

Becker, Gottfried, to Deutsche Edelstahlwerke Aktiengesellschaft. Method of producing chromised screws, nuts and bolts. 3,118,224, 1–21–64, Cl. 29—528.

Becker, Helmut: *See*—
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Becker, Helmut, and H. Hickmann, to Huttenwerk Oberhausen A.G. Hot-gas valve. 3,150,680, 9–29–64, Cl. 137—375.

Becker, Johannes, to Optische Industrie "De Oude Delft," N.V. Optical imagery system. 3,125,627, 3–17–64, Cl. 88—57.

Becker, John C., Jr., and J. H. Bress, to Celanese Corp. of America. High gloss latex paints. 3,150,110, 9–22–64, Cl. 260—17.

Becker, Josef, and W. G. J. Heckmann, to Klockner-Humboldt-Deutz A.G. Axially oscillating, horizontal centrifuge. 3,133,879, 5–19–64, Cl. 210—370.

Becker, Karl V., to United Shoe Machinery Corp. Heel end assembling and back part molding machines. 3,138,810, 6–30–64, Cl. 12—12.3.

Becker, Kenneth F. Flexible corner molding for curved surfaces. 3,159,251, 12–1–64, Cl. 189—85.

Becker, Mitchell: *See*—
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Becker, Myron, to Socony Mobil Oil Co., Inc. N-aminoethyl alkenyl succinamic acid deicer. 3,148,960, 9–15–64, Cl. 44—71.

Becker, Otto: *See*—
Eckerle, Otto, and Becker. 3,136,261.

Becker, Otto A. Filing device. 3,125,041, 3–17–64, Cl. 108—60.

Becker, Otto A. Vertical filing cabinet with fixed or movable compartments for standing or hanging up the folders therein. 3,146,046, 8–25–64, Cl. 312—234.2.

Becker, Peter A., to General Electric Co. Dynamoelectric machine with liquid-cooled excitation supply means. 3,145,314, 8–18–64, Cl. 310—68.

Becker, Ralph W. Webbing system using preprinted tape. 3,125,335, 3–17–64, Cl. 270—5.

Becker, Reynolds G., to United States of America, Army. Target ring assembly for aircraft external cargo hook. 3,133,759, 5–19–64, Cl. 294—74.

Becker, Richard W., to Eastman Kodak Co. Photographic multicolor diffusion transfer process using dye developers. 3,161,506, 12–15–64, Cl. 96—3.

Becker, Rudolf: *See*—
Linde, Gerhard, Becker, and Reyhing. 3,163,511.

Becker, Rudolf, to Gesellschaft fur Linde's Eisenmaschinen Aktiengesellschaft. Method and apparatus for the separation of carbon dioxide from compressed gases. 3,130,026, 4–21–64, Cl. 62—17.

Becker, Rudolf, to Gesellschaft fur Linde's Eismaschinen Aktiengesellschaft. System for conducting heat exchange operations in a gas separation apparatus incorporating periodically reversible regenerators. 3,143,406, 8–4–64, Cl. 62—13.

Becker, Wilhelm: *See*—
Glabisch, Dietrich, Becker, and Dennstedt. 3,126,361.
Müller, Erwin A., and Becker. 3,135,708.

Becker, William C., and E. Smith, Jr., to Reynolds Metals Co. Methods and apparatus for shaping baking materials and the like. 3,128,725, 4–14–64, Cl. 107—54.

Beckerich, John F.: *See*—
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Beckett, Madeline: *See*—
Leonard, Robert F., and Beckett. 3,118,765.

Beckham Instruments, Inc.: *See*—
Arthur, Edwin P., and Friedman. 3,151,052.
Kuffer, Fernand B., and Dora. 3,150,517.
Place, Thomas M., Jr., and Bradford. 3,149,300.
Place, Thomas M., Sr. and Place, Jr. 3,149,002.
Stevenson, George W., Carlsen, and Arthur. 3,147,081.
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Beckham, Virgil E. Boat trailer. 3,127,042, 3–31–64, Cl. 214—505.

Beckius, Ivar, and M. Rydinger, to Allmänna Svenska Elektriska Aktiebolaget. Corona projection screen for inductor coils in vacuum furnaces. 3,146,300, 8–25–64, Cl. 174—127.

Beckley, Maurice S.: *See*—
Smith, Francis F., and Beckley. 3,125,066.

Beckman, Harry R. Apparatus for grinding valves, valve seats, and cylinder ridges. 3,151,423, 10–6–64, Cl. 51—170.

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Abrams, Virgil J. 3,157,081.
Arthur, Edwin P. 3,124,470.
Arthur, Edwin P., and Leonard. 3,143,488.
Arthur, Edwin P., and Leonard. 3,145,157.
Braymer, Noel B. 3,130,373.
Burnell, Maurice R., Foster, and Gallaway. 3,134,898.
Carter, Norman W. 3,129,160.
Charlton, Kyle W., Maxwell, and Spracklen. 3,160,015.
Dora, Ralph A. 3,159,737.
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Gallaway, William S., Foster, Sternberg, and Dora. 3,140,919.
Gardner, Douglas B., and Kuffer. 3,145,339.
Gilbert, Paul T., Jr. 3,138,330.
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Isborn, Carl L. 3,161,867.
Klein, Walter. 3,141,153.
Langenbach, Jack E., and Prill. 3,135,941.
Lehman, Ben J. 3,134,512.
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Matthews, Kenneth V. 3,123,660.
Metz, George. 3,159,792.
Miller, Kenneth F., and Szobonya. 3,134,085.
Oates, William M. 3,141,336.
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Pickels, Edward G., and Stallman. 3,129,174.
Stallman, Richard C., and Oates. 3,128,716.
Sternberg, James C., and Jones. 3,158,446.
Strickler, Allen. 3,141,094.
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Beckman, John H., to Union Carbide Corp. Liquified gas container. 3,147,877, 9–8–64, Cl. 220—9.

Beckman, Leland J., and F. L. Kelly, to Allied Chemical Corp. Fertilizer containing ammelide-urea mixture. 3,142,558, 7–28–64, Cl. 71—30.

Beckman, Paul. Temperature compensated electrical strain gage. 3,158,827, 11–24–64, Cl. 338—3.

Beckman, Philip J.: *See*—
O'Connell, Daniel J., Beckman, and Stockholm. 3,142,-069.
Beckman, Ronald, D. Gilchrist, and H. Yarme. Seating. 3,121,588, 2–18–64, Cl. 297—1.
Beckman & Whitley, Inc.: *See*—
Bagley, Charles H. 3,159,103.
Buck, Willard E. 3,122,052.
Corcoran, John W. 3,161,885.
Teeple, Lawrence R., Jr. 3,143,051.
Beckmann, Erna M. D. E.: *See*—
Beckmann, Hans. 3,162,020.
Beckman, Hans. Method and device for deep freezing of foods, luxuries and medicines. 3,150,497, 9–29–64, Cl. 62—64.
Beckmann, Hans, deceased; E. M. D. E., L. E. H. K., and U. R. Beckmann, heirs. Method of conserving fresh fish. 3,162,020, 12–22–64, Cl. 62—240.
Beckmann, Ludwig E. H. K.: *See*—
Beckmann, Hans. 3,162,020.
Beckmann, Uta R.: *See*—
Beckmann, Hans. 3,162,020.
Beckner, Marshal H., and B. C. Coit, Jr., to Tri-State Engineering Co. Support means for steel studs and the like. 3,134,466, 5–26–64, Cl. 189—34.
Beckord, Lawrence D., and J. G. Fleckenstein, to Kurth Malting Co. Malting process. 3,134,724, 5–26–64, Cl. 195—71.
Beckson Mfg. Corp.: *See*—
Sisson, Earl L. 3,124,080.
Beckwith, Edward P., to United States of America, Navy. Torpedo steering control unit. 3,161,169, 12–15–64, Cl. 114—23.
Beckwith, Sterling, to Dual Jet Refrigeration Co. Refrigerated display cabinet and method of operation. 3,122,892, 3–3–64, Cl. 62—81.
Beckwith, Sterling, to Dual Jet Refrigeration Co. Refrigeration system. 3,129,567, 4–21–64, Cl. 62—256.
Beckwith, Sterling, to Dual Jet Refrigeration Co. Multiple jet conditioning cabinet. 3,130,559, 4–28–64, Cl. 62—256.
Beckwith, Sterling, to Dual Jet Refrigeration Co. Defrost method and means for refrigerated cabinets. 3,147,602, 9–8–64, Cl. 62—278.
Beckwith, Sterling, to Dual Jet Refrigeration Co. Refrigerated display cabinet. 3,149,476, 9–22–64, Cl. 62—256.
Beckwith, Sterling, and R. Vogel, to Dual Jet Refrigeration Co. Refrigerated enclosure. 3,128,609, 4–14–64, Cl. 62—256.
Beckwith, Sterling, and D. B. Smith. Magnetohydrodynamic generator. 3,162,781, 12–22–64, Cl. 310—11.
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Blackman, Seymour N. 3,141,754.
Buono, Frank S. 3,155,134.
Taylor, Harry E. 3,119,521.
Tsochatzopoulos, Photios P. 3,141,460.
Bedard, Francis L., and C. E. Mathis, to General Motors Corp. Engine horsepower meter. 3,135,110, 6–2–64, Cl. 73—115
Bedell, John R., and V. Tsonev, to Day Co., N.V. Method of producing electrical components. 3,147,167, 9–1–64, Cl. 156—264.
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Neumann, Clarence A., Helberg, and Bedford. 3,160,842.
Bedford, Colin T.: *See*—
Scott, Alastair I., and Bedford. 3,146,265.
Bedford, Leslie H., to The English Electric Co. Ltd. Accelerometers. 3,124,961, 3–17–64, Cl. 73—497.
Bedford, William A., Jr. Fastening device. 3,119,490, 1–28–64, Cl. 206—53.
Bedford, William A., Jr., to Thompson Bremer & Co. Fastener for supporting a conductor. 3,130,948, 4–28–64, Cl. 248—58.
Bedford, William A., Jr., to Thompson Bremer & Co. Molding clips. 3,137,048, 6–16–64, Cl. 24—73.
Bedford, Wiliam A., Jr., to Bremer, Thompson & Co. Sheet metal fastener with T-shaped key. 3,156,282, 11–10–64, Cl. 151—41.75.
Bedil, Mustafa F., to The English Electric Co. Ltd. Electric transformers. 3,160,838, 12–8–64, Cl. 336—69.
Bedinghaus, William H. Rotary perforating roll units supported for movement towards and away from each other. 3,135,152, 6–2–64, Cl. 83—345.
Bednar, Joseph A., and R. T. Warner, to General Motors Corp. Power steering system for articulated vehicles. 3,123,174, 3–3–64, Cl. 180—79.2.
Bednarski, Valery N.: *See*—
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Bednash, John H. Bowling ball having removable finger grip insert with venting and tool-receiving opening. 3,129,002, 4–14–64, Cl. 273—63.
Bedoit, William C., Jr., to Jefferson Chemical Co., Inc. Process for the production of polyglycolamine and morpholine. 3,155,657, 11–3–64, Cl. 260—247.
Bedol, Alan, to Marshallan Mfg. Co. Tray-table. 3,160,121, 12–8–64, Cl. 108—157.
Beduerftig, Herman F.: *See*—
Moore, Thomas M., and Beduerftig. 3,150,847.
Beebe Bros., Inc.: *See*—
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Selset, Ronald S. 3,126,985.
Beebe, Emmett R., to S & C Electric Co. Arc welding apparatus. 3,123,704, 3–3–64, Cl. 219—125.
Beebe, Herbert R., to American Doll & Toy Corp. Ball joint between doll head and body. 3,124,901, 3–17–64, Cl. 46—161.
Beebe, Herbert R., and B. Suchowski, to American Character, Inc. Doll, toy figure and the like with an adjustable lock of hair. 3,162,976, 12–29–64, Cl. 46—172.
Beebe, James R.: *See*—
Fuhrwerk, Victor C., Rose, and Beebe. 3,121,387.
Beebe, Paul, Jr., to The Goodyear Tire & Rubber Co. Meat package and method of preparing same. 3,122,748, 2–25–64, Cl. 99—174.
Beebe, Raymond A., to Massey-Ferguson Inc. Seed dropping attachment for planting implements. 3,133,515, 5–19–64, Cl. 111—36.
Beebe, Ronald F., to Litton Systems, Inc. Pulse forming network. 3,153,730, 10–20–64, Cl. 307—88.5.
Beebe, Stuart J., to Tex-Sun Glove Co. Glove with elastic band at wrist. 3,119,118, 1–28–64, Cl. 2—162.
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Shelton, Leonard, Beebee, Jones, and Bush. 3,142,322.
Beech, Austin S., and T. Spencer, to Austin S. Beech & Co. Ltd. Apparatus for controlling series of operations. 3,136,335, 6–9–64, Cl. 137—624.13.
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Beecham Group Ltd.: *See*—
Doyle, Frank P., and Nayler. 3,129,217.
Doyle, Frank P., and Nayler. 3,157,639.
Doyle, Frank P., Nayler, and Rolinson. 3,132,136.
Doyle, Frank P., Nayler, and Rolinson. 3,134,767.
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Buckwalter, Frank H., Granatek, and De Murio. 3,121,-044.
Doyle, Frank P., Nayler, and Smith. 3,120,513.
Doyle, Frank P., Nayler, and Smith. 3,120,514.
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Beecher, Stanley B., to Union Tank Car Co. Welding supporting apparatus. 3,159,126, 12–1–64, Cl. 113—99.
Beegle, Lindley C.: *See*—
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Beegle, Robert L., Jr., R. C. Brown, and C. M. James, to Aerojet-General Corp. Sensitized nitroparaffin. 3,132,060, 5–5–64, Cl. 149—36.
Beehler, Richard F., and S. F. Murray, to The Lau Blower Co. Radial flow fan. 3,131.236, 4–28–64, Cl. 261—28.
Beekenkamp, Gerald. Cuff links. 3,149,385, 9–22–64, Cl. 24—101.
Beeman, Lyle. Compressor unloading system. 3,119,551, 1–28–64, Cl. 230—31.
Beeman, Lyle. Pressure responsive snap acting switch. 3,135,844, 6–2–64, Cl. 200—83.
Beeman, Lyle. Magnetic type pressure operated snap switch. 3,141,077, 7–14–64, Cl. 200—83.
Been, Amos H. Cotton harvesting machine. 3,137,983, 6–23–64. Cl. 56—48.
Been, Jerome L., and M. M. Grover, to Pittsburgh Plate Glass Co. Structural adhesive compositions. Re. 25,625, 7–28–64, Cl. 161—186.
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Beene, Jones C., III. Furniture leg and attaching means therefor. 3,134,566, 5–26–64, Cl. 248—189.
Beer, Andrew F.: *See*—
Beale, Julian R. A., and Beer. 3,160,799.
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Beer, Emanuel E., to General Precision, Inc. Two-speed tape recorder transport mechanism. 3,124,291, 3–10–64, Cl. 226—178.
Beer, Ludwig, H. Metzger, and D. Weiser, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Purification of lactams. 3,154,540, 10–27–64, Cl. 260—239.3.
Beerbower, Alan, and J. L. Murray, to Esso Research and Engineering Co. Method of using radioactive tracers. 3,130,314, 4–21–64, Cl. 250—106.
Beerbower, Alan, H. W. Rudel, and F. A. Baumle, to Esso Research and Engineering Co. Pyrethrin-elastomer insecticidal composition and method. 3,158,535, 11–24–64, Cl. 167—24.
Beerend, Ray F., to Basic Food Materials, Inc. Baking pan with replaceable liner. 3,155,304, 11–3–64, Cl. 229—3.1.
Beermann, Claus, R. Graf, and H. Bestian, to Farbwerke Hoechst Aktiengesellschaft. Alkyltitanium halides. 3,117,-984, 1–14–64, Cl. 260—429.5.
Beermann, Paul, to Richard Rinker Firma. Detonator. 3,119,334, 1–28–64, Cl. 102—81.6.
Beernaert, Claude, to Commissariat a l'Energie Atomique. Processes for sheathing the fuel elements of nuclear reactors. 3,118,222, 1–21–64, Cl. 29—514.
Beers, George L. Devices for protecting and lubricating electric shavers. 3,132,422, 5–12–64, Cl. 30—34.
Beers, George L. Directional glare reducing viewing device. 3,133,139, 5–12–64, Cl. 88—1.
Beers, Roland F., Jr. Process for recovering catalase from the cells of micrococcus lysodeikticus. 3,123,539, 3–3–64, Cl. 195—66.

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Beese, Norman C., to United States of America, Navy. Sealed beam high-intensity short arc lamp. 3,138,731, 6–23–64, Cl. 313—113.
Beese, Norman C., to United States of America, Navy. High intensity short arc lamp. 3,154,713, 10–27–64, Cl. 313—267.
Beeskow, Bruno E. A. H., to Daimler-Benz Aktiengesellschaft. Clutch control system. 3,130,827, 4–28–64, Cl. 192—13.
Beesley, James P., to International Business Machines Corp. Cryotron clip and clamp circuit. 3,149,240, 9–15–64, Cl. 307—88.5.
Beeson, Harry W.: *See*—
Lemm, Lester F., and Beeson. 3,117,299.
Lemm, Lester F., and Beeson. 3,121,857.
Beeson, Robert J.: *See*—
Apel, John H., and Beeson. 3,130,654.
Beetz, Hans: *See*—
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Beezer, Earl F. Automatic cam cutting machine. 3,160,067, 12–8–64, Cl. 90—13.4.
Beezer, Earl F. Proportioning on cam cutting machine. 3,160,068, 12–8–64, Cl. 90—13.6.
Beezer, Earl F., and R. Mahr, to Radio Corp. of America. Automatic grid winding apparatus. 3,139,120, 6–30–64, Cl. 140—71.5.
Beffa, Fabio, and G. Schetty, to J. R. Geigy, A.-G. Heavy metal-containing monoazo dyes. 3,125,561, 3–17–64, Cl. 260—146.
Beffa, Fabio, and G. Schetty, to J. R. Geigy, A.-G. Heavy metal-containing azo dyestuffs. 3,132,130, 5–5–64, Cl. 260—147.
Beffa, Fabio, and G. Schetty, to J. R. Geigy, A.-G. Heavy metal-containing formazane dyestuffs. 3,139,420, 6–30–64, Cl. 260—149.
Begeman, Robert H., to United States of America, Navy. Direct current coupled crossover detector circuit. 3,154,745, 10–27–64, Cl. 328—133.
Begeman, Robert H., and F. A. Marasco, to United States of America, Navy. Fixed antenna terrain clearance system. 3,153,234, 10–13–64, Cl. 343—16.
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Begg, Percy R. Orthodontic bracket. 3,128,553, 4–14–64, Cl. 32—14.
Beggs, Donald, C. Cone, G. H. Young, and P. L. Knight, to Midland-Ross Corp. Convective cooling of continuously moving metal strip. 3,116,788, 1–7–64, Cl. 165—120.
Beggs, Hugh E.: *See*—
Cottrell, Robert B., Jr., Buzby, and Beggs. 3,159,291.
Beggs, James E., to General Electric Co. Electron beam focusing by means of contact differences of potential. 3,154,711, 10–27–64, Cl. 313—82.
Beghetto, Raymond A., Jr. Box buckle. 3,118,201, 1–21–64, Cl. 24—16.
Beghetto, Raymond A., Jr. Means for securing a pendant to a chain, including means for blocking release thereof. 3,122,900, 3–3–64, Cl. 63—23.
Beghetto, Raymond A., Jr. Fastening device. 3,151,370, 10–6–64. Cl. 24—16.
Begley, Edward R.: *See*—
Alper, Allen M., Begley, Londeree, and McNally. 3,132,953.
Begley, Richard T., to Westinghouse Electric Corp. High strength niobium-base alloys. 3,152,891, 10–13–64, Cl. 75—174.
Beguin, Fred P., to American Optical Co. Ear protectors. 3,160,717, 12–8–64, Cl. 179—182.
Beguin, Richard F. Sequential annunciator system. 3,138,791, 6–23–64, Cl. 340—223.
Behan, Louis R. Steering, throttle and gear shift control. 3,141,351, 7–21–64, Cl. 74—484.
Behan, William: *See*—
Tihovici, Maria. 3,136,578.
Behar, Isaac, to Societe Metallurgique d'Imphy. Alloy based on iron, containing nickel, chromium and aluminium, and process for obtaining same. 3,131,055, 4–28–64, Cl. 75—124.
Behlen, George D., to The United States Electrical Tool Co. Grinding machine with means for compensating for grinding wheel wear. 3,157,006, 11–17–64, Cl. 51—134.5.
Behlen Mfg. Co., Inc.: *See*—
Plugge, Dale L., and Shonka. 3,145,855.
Behles, Michael M.: *See*—
Miller, Herbert J., Behles, and Clark. 3,127,207.
Behmenburg, Hans, M. Tomanek, W. Neugebauer, and K. Kurt-Walter, to Azoplate Corp. Process for the preparation of electro-photographic reversed images. 3,159,483, 12–1–64, Cl. 96—1.
Behn, Prescott, and A. C. Whitaker, to J. M. Huber Corp. Abrasive paper filled with pellets of spray dried siliceous pigments. 3,149,024, 9–15–64, Cl. 162—181.
Behncke, Hans J. Drum drying apparatus. 3,149,930, 9–22–64, Cl. 34—115.
Behner, Donald C., to North American Refractories Co. Refractory structure. 3,148,230, 9–8–64, Cl. 264—30.
Behnke, Arnold F., to Kay-Brunner Steel Products, Inc. Self equalizing tandem spring suspension assembly. 3,117,799, 1–14–64, Cl. 280—104.5.
Behnke, George W., to Simplicity Engineering Co. Crusher apparatus. 3,148,840, 9–15–64, Cl. 241—275.
Behnke, George W., R. G. Westcott, and H. A. Wirth, to Simplicity Engineering Co. Crusher mechanism. 3,154,259, 10–27–64, Cl. 241—275.
Behnke, George W., R. G. Westcott, and J. A. Richmond, to Simplicity Engineering Co. Apparatus for shaking out foundry flasks. 3,162,910, 12–29–64, Cl. 22—95.7.
Behnke, Robert C., and A. R. Walker, to General Motors Corp. Valve lifter. 3,124,869, 3–17–64, Cl. 29—156.7.
Behr, Albert I. Dual-purpose trailer. 3,118,552, 1–21–64, Cl. 214—500.
Behr, Samuel H. Apparatus for testing portable equipment for A.C. and D.C. leakage and for ground continuity. 3,141,128, 7–14–64, Cl. 324—51.
Behr, Walther, and H. Elsner, to Olympia Werke A.G. Tabulator for typewriters and the like. 3,137,381, 6–16–64, Cl. 197—191.
Behrenbruch, Horst, W. Happe, and H. Hoyer, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of shaped structures of polyolefins having improved dyeing properties. 3,156,745, 11–10–64, Cl. 260—897.
Behrendt, Otto, and J. Schiffers, to Schloemann Aktiengesellschaft. Means for severing from an extruded product a pack expelled by a press ram from the container of a metal extrusion press. 3,129,818, 4–21–64, Cl. 207—1.
Behrendt, Werner K.: *See*—
Brainard, Wallace E., and Behrendt. 3,124,017.
Behrens, Charles A., to National Mfg. Co. Bolt latch. 3,141,692, 7–21–64, Cl. 292—147.
Behrens, Curtis E., to Borg-Warner Corp. Dry cleaning machine. 3,162,032, 12–22–64, Cl. 68—18.
Behrens, Curtis E., and R. D. Shapter, to Borg-Warner Corp. Suspension system for an automatic washer. Re. 25,693, 12–1–64, Cl. 68—24.
Behrens, Heinz: *See*—
Cremer, Gottfried, and Behrens. 3,129,933.
Cremer, Gottfried, and Behrens. 3,158,364.
Behrens, Heinz. Tunnel kilns for the calcining particularly of sensitive ceramic ware. 3,122,814, 3–3–64, Cl. 25—142.
Behrens, Herbert C., W. M. Mack, and C. L. Metzler, to American Can Co. Adjustable cup dispenser. 3,163,323, 12–29–64, Cl. 221—4.
Behrens, Joh. F.: *See*—
Bade, Heinz E. 3,140,492.
Bade, Heinz E. 3,146,459.
Bade, Heinz E., and Behrens. 3,128,468.
Behrens, Roy E.: *See*—
Donahue, Leo O., and Behrens. 3,117,500.
Behrens, Walter R. Front-end loader attached cultivator. 3,138,210, 6–23–64, Cl. 172—277.
Behrens, William H., M. I. Hudis, H. L. Neal, A. E. Arnosti, and R. A. Fricke, to Chain Belt Co. Placing plastic paving material. 3,156,170, 11–10–64, Cl. 94—46.
Behringer, Hans, to W. Bahlsen. Process for pneumatic formation of thermoplastic foils. 3,159,695, 12–1–64, Cl. 264—93.
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Hennessen, Walter, Mauler, and Ross. 3,143,473.
Schönenberger, Max, and Erbach. 3,148,141.
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Behrman, Abraham S., to Chilean Nitrate Sales Corp. Solid alkali iodide compositions and process for producing the same. 3,132,068, 5–5–64, Cl. 167—17.
Behymer, Oral C.: *See*—
Lawley, James R., Jr., Behymer, Wadley, Schutze, and Manne. 3,150,204.
Behymer, Oral C., W. K. Robbins, and J. E. Kehoe, to Esso Research and Engineering Co. Production of specialty oil. 3,121,678, 2–18–64, Cl. 208—212.
Beicos, Sotirios S., to Simoniz Co. Hydrophilic polyurethane sponge. 3,149,000, 9–15–64, Cl. 117—98.
Beidler, Richard F.: *See*—
Paul, Albert P., and Beidler. 3,155,716.
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Heckmaier, Joseph, Bergmeister, and Beier. 3,145,194.
Beigay, Jack M., R. C. Bongartz, and D. R. Zaremski, to Titanium Metals Corp. of America. Descaling metals and alloys with aqueous potassium hydroxide at relatively low temperature. 3,121,026, 2–11–64. Cl. 134—2.
Beihl, Clarence A. Tongs. 3,153,554, 10–20–64, Cl. 294—28.
Beijer, Gene. Adjustable drawing board. 3,150,615, 9–29–64, Cl. 108—9.
Beijnink, Willem: *See*—
Ensink, Johannes, and Beijnink. 3,131,352.
Beiler, Aaron P.: *See*—
Smoker, Isaac Z. and N. B., Beachy, and Beiler. 3,132,754.
Beiler, Aaron P., to Sperry Rand Corp. Agricultural device. 3,128,054, 4–7–64, Cl. 241—186.
Beiler, Aaron P., to Sperry Rand Corp. Bale conveyor. 3,155,226, 11–3–64, Cl. 198—182.
Beilis, Herbert J. Multiple key retainer. 3,132,504, 5–12–64, Cl. 70—456.
Beimiller, Philip E., and K. H. Schoenrock, to Hamilton Watch Co. Indexing mechanism. 3,143,848, 8–11–64, Cl. 58—28.
Beine, Floyd J., to Allis-Chalmers Mfg. Co. Rotary machine support. 3,161,389, 12–15–64, Cl. 248—14.
Beiner, Raymond S.: *See*—
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Beinke, Randall E., to General Motors Corp. Filter purging device. 3,144,405, 8–11–64, Cl. 210—117.

Beischer, Philip F.: *See*—
Greene, William J., and Beischer. 3,133,186.

Beisel, Donald H., to Ford Motor Co. Vehicle wheel suspension having spring rate adjustment feature. 3,162,466, 12–22–64, Cl. 280—124.

Beisel, Donald H., and H. J. Kozicki, to Ford Motor Co. Accelerator pedal. 3,125,896, 3–24–64, Cl. 74—513.

Beisel, Walter E., to C. W. Olson Mfg. Co. Windshield frame. 3,121,924, 2–25–64, Cl. 20—56.

Beisma, Louw A., to North American Philips Co., Inc. Cutting head for dry shaver. 3,144,714, 8–18–64, Cl. 30—43.92.

Beispel, Robert: *See*—
Anderson, Thomas P., and Beispel. 3,141,275.
Anderson, Thomas P., and Beispel. 3,141,276.
Anderson, Thomas P., and Beispel. 3,147,561.

Beissner, Wilhelm, to Continental Gummi-Werke Aktiengesellschaft. Pneumatic tire for vehicles. 3,118,482, 1–21–64, Cl. 152—354.

Beitchman, Burton D., to Air Products and Chemicals Inc. Catalyst composition and method of using same. 3,146,219, 8–25–64, Cl. 260—75.

Beitchman, Burton D., to Air Products and Chemicals, Inc. Polyisocyanurate preparation using a triethylene diamine and a tertiary imine cocatalyst. 3,154,522, 10–27–64, Cl. 260—77.5.

Beitel, Herbert M.: *See*—
Fried, Louis, and D'Andrea. 3,130,059.
Fried, Louis, D'Andrea, and Browning. 3,142,411.

Beitel, Robert C.: *See*—
Brownrigg, Ebbie F. 3,116,947.

Beiter, Rudolf E., and F. K. Ellis, to Honolulu Iron Works Co. Sugar mill. 3,131,624, 5–5–64, Cl. 100—165.

Beitler, Samuel. Display form for cut-up yard goods for garments. 3,149,424, 9–22–64, Cl. 35—56.

Beitman, Bernard J., Jr.: *See*—
Beason, Raymond C., and Beitman. 3,120,655.

Beitman, Bernard J., Jr., L. R. Duncan, Jr., M. T. Ludvigson, and D. R. Stevens, to Collins Radio Co. Automatic coupling and impedance matching network. 3,160,832, 12–8–64, Cl. 333—17.

Beitz, Ruben E., and P. D. Huston, to Admiral Corp. Screen protection circuit for radar display device. 3,154,716, 10–27–64, Cl. 315—20.

Bekelman, Alan M.: *See*—
Matsch, Ladislas, Wang, Bekelman, and Cheung. 3,121,624.

Bekey, Andrew, to Genisco, Inc. Electric motor having low Curie point magnetic bridge between poles. 3,157,809, 11–17–64, Cl. 310—156.

Bekey, Andrew, to Genisco, Inc. Induction motor including two commutated windings for speed control. 3,161,795, 12–15–64, Cl. 310—173.

Bekk & Kaulen, Dr., Chemische Fabrik G.m.b.H.: *See*—
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Kaulen, Robert. 3,124,485.
Kaulen, Robert. 3,126,808.

Bel, Alain, R. Delmas, and B. Francois, to Commissariat a l'Energie Atomique. Manufacture of sintered uranium dioxide. 3,129,055, 4–14–64, Cl. 23—14.5.

Belaieff, James F.: *See*—
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Belak, Steven G., and W. J. Stout, to Sun Oil Co. Asphalt composition containing atactic polypropylene. 3,144,423, 8–11–64, Cl. 260—28.5.

Belanger, Arthur J. Automobile jack. 3,159,382, 12–1–64, Cl. 254—105.

Belanich, John A. Multi-character readout assembly. 3,150,362, 9–22–64, Cl. 340—378.

Belardinelli, Enzo: *See*—
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Belcher, James E., Jr.: *See*—
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Belden, Frederick H., W. W. McManus, and W. H. Hoffman, to Union Carbide Corp. Production of acetylene. 3,135,810, 6–2–64, Cl. 260—679.

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Beléndez-Garcia, Joaquin. Coconut classifier. 3,135,387, 6–2–64, Cl. 209—123.

Belezos, Stratis G., to The Murray Co. of Texas, Inc. Adapter for mounting a speed-reducer. 3,162,061, 12–22–64, Cl. 74—606.

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Marino, Anthony J., Belfiore, and Graf von Soden. 3,140,520.

Belfiore, Samuel, ⅛ to R. L. Boose. Rotary lawn mower blade. Re. 25,611, 7–7–64, Cl. 56—295.

Belford, Adam J. R., to Stewarts and Lloyds Ltd. Crane hook suspensions. 3,123,340, 3–3–64, Cl. 254—139.

Belindco, Inc.: *See*—
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Beling, Horst: *See*—
Sandegren, Evald, and Beling. 3,159,551.

Belisle, Adelard J., H. D. Allyn, and F. M. Re, to Dual Manufacturing & Engineering, Inc. Swivel rocking chair. 3,122,396, 2–25–64, Cl. 297—89.

Belisle, Alfred E.: *See*—
McCrum, Russell T., Belisle, and Oransky. 3,160,093.

Belk, Wilber C., to FMC Corp. Method of and apparatus for sectionizing citrus fruit. 3,155,132, 11–3–64, Cl. 146—236.

Belke Mfg. Co.: *See*—
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Belke, William E. 3,152,060.

Belke, Ralph E.: *See*—
Belke, William E. 3,152,060.

Belke, Ralph E., to Belke Mfg. Co. Electroplating barrels. 3,159,560, 12–1–64, Cl. 204—213.

Belke, William E., deceased; L. L. Linquist and R. E. Belke, executors, to Belke Mfg. Co. Rotary electroplating barrel. 3,152,060, 10–6–64, Cl. 204—213.

Belkin, Nathan L., to Angelica Uniform Co. Surgeon's gown. 3,129,432, 4–21–64, Cl. 2—114.

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Belko, William R., Jr.: *See*—
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Belko, William R., Jr., to Vitramon, Inc. Method of making a stacked capacitor. 3,117,365, 1–14–64, Cl. 29—25.42.

Bell Aerospace Corp.: *See*—
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De Boy, Marvin F., and Flexman. 3,161,968.
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Hall, Randolph F. 3,132,590.
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Bell, Alan: *See*—
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Bell, Alan, to Foster Wheeler Corp. Steam generator. 3,138,199, 6–23–64, Cl. 165—105.

Bell, Alan, to Foster Wheeler Corp. Vapor generator with integral superheater. 3,141,445, 7–21–64, Cl. 122—34.

Bell, Alan, and G. R. Lappin, to Eastman Kodak Co. 2,2-dialkyl-1,3-propanediol diesters as functional fluids. 3,148,147, 9–8–64, Cl. 252—47.5.

Bell, Alan, C. J. Kibler, and J. G. Smith, to Eastman Kodak Co. Preparation of elastomeric polymers. 3,157,619, 11–17–64, Cl. 260—75.

Bell, Basil E., to National Research Development Corp. Depth gauges. 3,161,053, 12–15–64, Cl. 73—300.

Bell, Borden E.: *See*—
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Bell, Carl E. Interrelated web feed and tool drive means. 3,163,070, 12–29–64, Cl. 83—311.

Bell, Charles C. Cable strap. 3,118,200, 1–21–64, Cl. 24—16.

Bell, Charles C. Tightening and cut-off tool for cable straps. 3,118,473. 1–21–64, Cl. 140— 93.

Bell, Charles C., and R. L. Davidson, to Curtis & Marble Machine Co. Shearing apparatus for textile fabrics. 3,119,167, 1–28–64, Cl. 26—15.

Bell, Charles R., and K. G. Johnson, to United States of America, Army. Liquid propellant gun. 3,160,064, 12–8–64, Cl. 89—155.

Bell, Claude V., and J. R. Twinam, to Radio Corp. of America. Pulse signal demodulator. 3,119,901, 1–28–64, Cl. 178—88.

Bell Corp., The: *See*—
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Bell, Davitt S., to Edgewater Steel Co. Adjustable template system for machining surfaces of revolution. 3,133,464, 5–19–64, Cl. 82—14.

Bell, Donald G., to Giannini Controls Corp. Helical potentiometer. 3,119,976, 1–28–64, Cl. 338—143.

Bell, Edward R., and W. S. Anderson, to Shell Oil Co. Process for polymerizing isoolefins. 3,137,643, 6–16–64, Cl. 204—154.

Bell, George C.: *See*—
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Bell, George H., Jr., to The Morgan Engineering Co. Peel control. 3,129,616, 4–21–64, Cl. 78—96.

Bell, George W., to Northwestern Steel & Wire Co. Tumbling drum for coating nails having a weighing feeder. 3,131,090, 4–28–64, Cl. 118—9.

Bell, Gordon M., to General Electric Co. Voltage stabilizing system. 3,155,894, 11–3–64, Cl. 323—66.

Bell & Gossett Co.: *See*—
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Bell, James F., B. Folda, Jr., and R. A. Trimble, to Socony Mobil Oil Co., Inc. Process for preparing binder pitches. 3,140,248, 7–7–64, Cl. 208—40.

Bell, James K.: *See*—
Eiselstein, Herbert L., and Bell. 3,157,495.

Bell, Joe W., and H. H. Fowler, to The Rockwell Mfg. Co. Dual valve plug assemblies. 3,139,906, 7–7–64, Cl. 137—594.

Bell, John F., to Zenith Radio Corp. U.H.F. tuning device utilizing coaxially aligned coils. 3,154,742, 10–27–64, Cl. 325—465.

Bell, John J. Check valves. 3,154,096, 10–27–64, Cl. 137—523.

Bell, John J., to Maryland Glass Corp. Conveying apparatus for arranging massed articles into a columnized relationship. 3,162,291, 12–22–64, Cl. 198—30.

Bell, John W., Jr. Tobacco harvesting apparatus. 3,132,751, 5–12–64, Cl. 214—5.5.

Bell, John W., Jr. Apparatus for looping string around tobacco leaves. 3,133,650, 5–19–64, Cl. 214—5.5.

Bell, Kenneth, to National Dairy Products Corp. Print forming apparatus. 3,120,703, 2–11–64, Cl. 31—8.

Bell, Lewis W., to Star Expansion Industries Corp. Ejector key. 3,149,414, 9–22–64, Cl. 29—278.

Bell, Lewis W., and I. Peskin, to Star Expansion Industries Corp. Self-drilling shield structure. 3,124,029, 3–10–64, Cl. 85—2.4.

Bell, Malcolm R.: *See*—
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Archer, Sydney, and Bell. 3,145,210.

Bell, Noel G. Auto track laying and amphibious vehicle. 3,118,419, 1–21–64, Cl. 115—1.

Bell, Norton W., to Bell & Howell Co. Circuit for detecting the frequency difference of simultaneously applied alternating current signals as a direct current signal. 3,136,900, 6–9–64, Cl. 307—88.5.

Bell, Norton W., to Consolidated Electrodynamics Corp. Moisture analysis apparatus. 3,146,181, 8–25–64, Cl. 204—195.

Bell, Norton W., R. H. Small, and A. R. Soffel, to Consolidated Electrodynamics Corp. Negative feedback amplifier for bridge-type transducers. 3,148,339, 9–8–64, Cl. 330—69.

Bell Punch Co. Ltd.: *See*—
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Bell, Ralph E.: *See*—
Ford, Ledger D., and Bell. 3,119,442.

Bell, Ramsay M., to Hammond Machinery Builders, Inc. Belt type electrolytic grinding machine. 3,162,588, 12–22–64, Cl. 204—141.

Bell, Raymond J., J. J. Byrne, and A. J. Schlueter, to Sylvania Electric Products Inc. Terminal box. 3,151,923, 10–6–64, Cl. 339—18.

Bell, Richmond T., to The Pure Oil Co. Gasoline containing organic boron-phosphorus additive. 3,158,451, 11–24–64, Cl. 44—69.

Bell, Robert E.: *See*—
Allen, William M., Fick, Rockwood, and Bell. 3,159,868.

Bell, Robert E., to Toledo Scale Corp. Printer delivery means. 3,119,326, 1–28–63, Cl. 101—66.

Bell, Robert E., to Toledo Scale Corp. Condition responsive devices. 3,130,802, 4–28–64, Cl. 177—12.

Bell, Robert E., to Toledo Scale Corp. Computing weighing scale. 3,145,792, 8–25–64, Cl. 177—4.

Bell, Robert E., and R. C. Loshbough, to Toledo Scale Corp. Numerical display device with solenoid controlled tooth interception. 3,147,470, 9–1–64, Cl. 340—347.

Bell, Robert E., and D. B. Kendall, to Toledo Scale Corp. Condition responsive apparatus. 3,163,247, 12–29–64, Cl. 177—3.

Bell, Robert R.: *See*—
Friend, Carl O., and Bell. 3,126,453.

Bell, Ross L., to Granger Associates. Tapered ladder log periodic antenna. 3,134,979, 5–26–64, Cl. 343—792.5.

Bell, Samuel A.: *See*—
Olt, Theodore F., Marshall, and Bell. 3,160,498.

Bell, Sidney R., to Jet Brush Products Inc. Window cleaning device. 3,118,166, 1–21–64, Cl. 15—531.

Bell Telephone Co. of Canada, The: *See*—
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Bell Telephone Laboratories, Inc.: *See*—
Aaron, Marvin R. 3,139,615.
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Bennett, Ernestine D., and A. F. Graf von Soden; said Graf von Soden assor. of ¼ to P. L. Hartland. Hair structure, process of making same and method for implanting hair in scalp. 3,119,398, 1–28–64, Cl. 132—5.

Bennett, Floyd M., to Lundy Electronics and Systems, Inc. Space waste collecting valve and pump. 3,158,874, 12–1–64, Cl. 4—142.

Bennett, Frank P., and A. E. Webb, to Sawyers Research Development Corp. Projected image transmitting apparatus. 3,130,635, 4–28–64, Cl. 88—24.

Bennett, Harold E., to United States of America, Navy. Reflectometer for measuring surface finishes. 3,160,752, 12–8–64, Cl. 250—83.3.

Bennett, Hilliard D. Wall bed structure. 3,116,494, 1–7–64, Cl. 5—136.

Bennett Inc.: *See*—
Kunzli, Werner. 3,138,880.

Bennett, Jack O., ⅓ to A. C. Nolte, Jr. Toy helicopter. 3,119,611, 1–28–64, Cl. 272—31.

Bennett, John C.: *See*—
Heltzel, Robert E., Arnold and Alex Sherman, Brugler, and Bennett. 3,156,312.

Bennett, John D., to Sun Oil Co. Bore hole apparatus for marking drilling mud. 3,155,176, 11–3–64, Cl. 175—42.

Bennett, John D., P. E. Chaney, and F. M. Mayes, to Sun Oil Co. Motion detection apparatus and method for use in bore hole logging. 3,141,126, 7–14–64, Cl. 324—1.

Bennett, John D., P. E. Chaney, and F. M. Mayes, to Sun Oil Co. Borehole logging apparatus including flexible detector and weighting means. 3,149,277, 9–15–64, Cl. 324—1.

Bennett, John D., and S. B. McCaleb, to Sun Oil Co. Apparatus for obtaining gas samples. 3,151,689, 10–6–64, Cl. 175—77.

Bennett, John L., and A. C. Stanley, to The Black and Decker Mfg. Co. Accessory holder for tool or appliance. 3,141,359, 7–21–64, Cl. 77—7.

Bennett, John M., to United States of America, Army. Mount structure for filamentary cathodes. 3,122,671, 2–25–64, Cl. 313—269.

Bennett, John T., ½ to F. Di Ferdiando. Tool holder for indexable cutting inserts. 3,125,799, 3–24–64, Cl. 29—105.

Bennett, Moreland P., and E. L. Hughes, to General Electric Co. Electrode for electrical resistance heating tool. 3,134,-883, 5–26–64, Cl. 219—119.

Bennett, Peter J., and D. W. Noren. Pitch control device for spring coiling machine. 3,127,922, 4–7–64, Cl. 153—64.

Bennett Products Co.: *See*—
Simons, Maurice C., and Huberman. 3,162,962.

Bennett, Ralph S., to General Electric Co. Oil filled fuse cutout with arc interrupting means. 3,132,226, 5–5–64, Cl. 200—150.

Bennett, Raymond G.: *See*—
Risse, Willis H., Tortorici, and Bennett. 3,160.487.

Bennett, Richard J., and W. A. Keene, to Phillips Petroleum Co. Blending apparatus. 3,138,369, 6–23–64, Cl. 259—95.

Bennett, Robert H., Jr., to Stow & Davis Furniture Co. Chair. 3,127,221, 3–31–64, Cl. 297—454.

Bennett, Ronald, to Fluid Chemical Co., Inc. Capless plastic snip-tip bottle. 3,162,327, 12–22–64, Cl. 222—143.

Bennett, Roswell J., to United States of America, Navy. Battery connector. 3,129,047, 4–14–64, Cl. 339—95.

Bennett, Roswell J., to United States of America, Navy. Reserve energizer. 3,162,548, 12–22–64, Cl. 136—90.

Bennett, Wallace R. Water ski rack device. 3,155,238, 11–3–64, Cl. 211—60.

Bennett, Wallis R., and C. W. Kline, to The Dow Chemical Co. Preparation of thorium oxalate. 3,124,603, 3–10–64, Cl. 260—429.2.

Bennett, Walter, S. Barker, and P. M. Heinmiller, to Utility Trailer Mfg. Co. Multiple unit trailers and containers. 3,163,306, 12–29–64, Cl. 214—515.

Bennett, Wesley F., to Western Electric Co., Inc. Fail-safe explosive gas distribution system. 3,127,252, 3–31–64, Cl. 48—192.

Bennett, Wesley F., to Western Electric Co., Inc. Diffusion of semiconductor bodies. 3,155,551, 11–3–64, Cl. 148—191.

Bennett, Willard F.: *See*—
Weed, Gehres D., and Bennett. 3,118,252.

Bennett, Willard H. Device for thermonuclear generation of power. 3,120,475, 2–4–64, Cl. 176—5.

Bennett, Willard H. Simulation of reentry conditions. 3,121,329, 2–18–64, Cl. 73—147.

Bennett, William, to Haase & Kuhn KG. Latch needle. 3,145,550, 8–25–64, Cl. 66—121.

Bennett, William C.: *See*—
Myers, Mark D., Noble, Simmons, and Bennett. 3,130,-840.

Bennett, William D.: *See*—
Waldron, Felix W., Green, and Bennett. 3,157,545.
Bennett, William N., to Cypress Gardens Skis, Inc. Jumping water skis. 3,148,392, 9–15–64, Cl. 9—310.
Bennett, William R., and F. E. Froehlich, to Bell Telephone Laboratories, Inc. Data transmission system. 3,157,741, 11–17–64, Cl. 178—66.
Bennett, William R., Jr., and A. Javan, to Bell Telephone Laboratories, Inc. Gas optical maser. 3,149,290, 9–15–64, Cl. 331—94.
Bennett, William R., Jr., and A. Javan, to Bell Telephone Laboratories, Inc. Gas optical maser. 3,159,707, 12–1–64, Cl. 88—1.
Bennewitz, Robert H., to Union Carbide Corp. Rail weld roll forging. 3,138,858, 6–30–64, Cl. 29—429.
Benning, Anton, U. Dolling, and O. Grosskinsky, to Bergwerksverband G.m.b.H., Firma. Production of aromatic carboxylic acids from aralkyl halides. 3,150,171, 9–22–64, Cl. 260—523.
Benning, Anton, and K. Handrick, to Bergwerksverband G.m.b.H. Method of producing benzene ring-halogenated aromatic hydrocarbons. 3,160,653, 12–8–64, Cl. 260—465.
Benning, Richard F.: *See*—
Baum, Martin A., and Benning. 3,136,662.
Benninger, Herbert: *See*—
Singer, Franz, and Benninger. 3,162,109.
Singer, Franz, Hohn, and Benninger. 3,136,234.
Benninghoff, William E., to The Ohio Crankshaft Co. Apparatus and method for welding strips onto a tube. 3,140,378, 7–7–64, Cl. 219—9.5.
Bennington, Wilbur E.: *See*—
Nelson, Jeffery N., Bennington, and Bates. 3,142,920.
Bennion, David R.: *See*—
Nitzan, David, English, and Bennion. 3,138,788.
Bennion, David R., to AMP Inc. Shift register. 3,125,747, 3–17–64, Cl. 340—174.
Bennon, Saul, and B. W. Hugon, to Westinghouse Electric Corp. Electrical inductive apparatus. 3,160,839, 12–8–64, Cl. 336—84.
Benoit, Jean, to Le Joint Francais. Toric packings. 3,147,984, 9–8–64, Cl. 277—237.
Bensinger, Wolf-Dieter: *See*—
Nallinger, Friedrich K. H., and Bensinger. 3,136,302.
Bensinger, Wolf-Dieter, to Daimler-Benz Aktiengesellschaft. Shifting arrangement for change-speed transmissions particularly in motor vehicles. 3,125,893, 3–24–64, Cl. 74—472.
Bensky, Lowell S., to Radio Corp. of America. Electronic digital information handling system with character recognition for controlling information flow. 3,118,055, 1–14–64, Cl. 235—157.
Benson, Carl F.: *See*—
Cowles, John H., and Benson. 3,116,747.
Benson, Carl F., to The Torrington Co. Shaft mounting for roller bearing. 3,129,038, 4–14–64, Cl. 308—236.
Benson, Carl F., to The Torrington Co. Constant velocity universal coupling. 3,162,025, 12–22–64, Cl. 64—21.
Benson, Carl F., and J. H. Cowles, to The Torrington Co. Valve assembly and method of making it. 3,158,165, 11–24–64, Cl. 137—68.
Benson, Carl H., to O. F. Mossberg & Sons, Inc. Action for semiautomatic firearms. 3,139,799, 7–7–64, Cl. 89—197.
Benson, Clark K.: *See*—
Blesch, Charles A., and Benson. 3,136,273.
Benson, Clark K., to Heat and Control, Inc. Catch box. 3,159,574, 12–1–64, Cl. 210—237.
Benson, Donald A., to Minnesota Mining and Mfg. Co. Adapter. 3,121,388, 2–18–64, Cl. 101—415.1.
Benson, Donald H., to Vanguard Abrasive Corp. Undercut resistant diamond abrasive saw blade. 3,128,755, 4–14–64, Cl. 125—15.
Benson, Elliot W. Fish hook supporting device. 3,133,374, 5–19–64, Cl. 43—57.5.
Benson, George: *See*—
Holt, George W., and Benson. 3,144,190.
Benson, Gustav E., to Owens-Corning Fiberglas Corp. Spun roving apparatus. 3,118,213, 1–21–64. Cl. 28—1.
Benson, Harold R., to The Nuarc Co. Scriber. 3,133,350, 5–19–64, Cl. 30—164.9.
Benson, Harold R., to The Nuarc Co. Line-up table. 3,158,943, 12–1–64, Cl. 33—184.5.
Benson, Harvey D.: *See*—
Palopoli, Frank P., Benson, Allen, and Schumann. 3,135,745.
Palopoli, Frank P., Benson, Allen, and Schumann. 3,150,144.
Benson, James M., to Hastings-Raydist, Inc. Fluid flow measuring apparatus. 3,147,618, 9–8–64, Cl. 73—204.
Benson, Paul R., to North American Aviation, Inc. Apparatus for testing organic liquid film forming characteristics. 3,148,534, 9–15–64, Cl. 73—61.
Benson, Robert W., to Xerox Corp. Image scanning apparatus. 3,131,594, 5–5–64, Cl. 88—24.
Benson, Wilfred Y., to Anelex Corp. Print hammer assembly. 3,126,823, 3–31–64, Cl. 101—93.
Benson, William, and H. Catling, to The Cotton Silk and Man-Made Fibres Research Association. Thread piecing device. 3,149,451, 9–22–64, Cl. 57—22.
Benson, William M., to Consolidated Electrodynamics Corp. Reel holding and centering hub. 3,140,061, 7–7–64, Cl. 242—68.1.
Bensusan, Arthur D., and H. Solomon. Apparatus for producing optical X-ray images. 3,134,900, 5–26–64, Cl. 250—78.
Bent, Arthur J., to Wsetinghouse Air Brake Co. Device for selectively or concurrently controlling a plurality of actuators. 3,131,573, 5–5–64, Cl. 74—471.
Bent, Charles W., and K. H. Mindrum, to Clark Equipment Co. Material handling apparatus. 3,118,555, 1–21–64, Cl. 214—651.
Bent, Dennis H., S. A. Kirk, and E. T. Astley, to Crosfield Electronics Ltd. Splicing of preprinted webs. 3,161,366, 12–15–64, Cl. 242—58.3.
Bent, John H., to Gardner-Denver Co. Fluid pressure actuated positive feed tool. 3,126,766, 3–31–64, Cl. 77—32.7.
Bent, John H., to Standard Pneumatic Motor Co. Rotary tool with power feed. 3,141,509, 7–21–64, Cl. 173—19.
Bent, John H., to Hamilton Co., Inc. Repeating dispenser. 3,161,323, 12–15–64, Cl. 222—41.
Bent, Leo V., to Tailormade Industries, Inc. Louver assembly. 3,161,268, 12–15–64, Cl. 189—69.
Bente, Henry V.: *See*—
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Bentele, Max., to Curtiss-Wright Corp. Rotor housing construction of rotating combustion engine. 3,155,313, 11–3–64, Cl. 230—238.
Bentele, Max, and C. Jones, to Curtiss-Wright Corp. Cooling structure for rotary mechanisms. 3,134,537, 5–26–64, Cl. 230—210.
Benteler, Helmut, to Benteler-Werke Aktiengesellschaft Werk Neuhaus. Manufacture of seamless tubes made of steel or the like. 3,136,185, 6–9–64, Cl. 80—62.
Benteler-Werke Aktiengesellschaft Werk Neuhaus: *See*—
Benteler, Helmut. 3,136,185.
Benthall Machine Co., Inc.: *See*—
Hobbs, Oliver K. 3,156,245.
Bentkowsky, Jerome, J. H. Chadwick, Jr., and V. E. Williams, to Sperry Rand Corp. Coordinated depth control system for submarines. 3,127,864, 4–7–64, Cl. 114—144.
Bentkowsky, Jerome, J. H. Chadwick, Jr., and V. E. Williams, to Sperry Rand Corp. Automatic turn control system. 3,133,520, 5–19–64, Cl. 114—144.
Bentley, Desmond M., to Anglo American Corp. of South Africa Ltd. Rope stretch compensator for suspended conveyances in mine hoisting equipment. 3,158,228, 11–24–64, Cl. 187—32.
Bentley Engineering Co. Ltd., The: *See*—
Manger, Charles F., and Jayes. 3,134,250.
Bentley, Harry A. Vehicle wheel securing means. 3,161,440, 12–15–64, Cl. 301—9.
Bentley, Howard A., to Carrier Corp. Ribbon centering guide. 3,131,843, 5–5–64, Cl. 226—1.
Bentley, James S., to Teleflex Products Ltd. Marine steering controls. 3,135,130, 6–2–64, Cl. 74—485.
Bentley, James S., to Teleflex Inc. Engine controls. 3,153,944, 10–27–64, Cl. 74—472.
Bentley-Leek, Herbert: *See*—
Shand, Stanley G., and Bentley-Leek. 3,139,801.
Bentley-Leek, Herbert, to Saunders Valve Co. Ltd. Plug cocks having spring biased shaft seals. 3,151,837, 10–6–64, Cl. 251—214.
Bentley, Robert F., R. A. Hack, and T. T. Stapleton, to General Motors Corp. Automatic electrode wear compensator. 3,125,700, Cl. 314—69.
Bentley, Robert F., and S. V. Simonetti, to General Motors Corp. Machine tool. 3,135,852, 6–2–64, Cl. 219—69.
Benton, Louis A., to Johns-Manville Corp. Self-sealing shingles. 3,159,518, 12–1–64, Cl. 156—268.
Benton, Robert C., to Centre Circuits, Inc. Optical communication system using a circular electromechanical modulator. 3,121,169, 2–11–64, Cl. 250—199.
Benton, Robert C., to Centre Circuits, Inc. Binary decimal gage. 3,156,983, 11–17–64, Cl. 33—125.
Benton, Robert C., and R. R. Whitehouse, to Centre Circuits, Inc. Programmed motor valves. 3,147,769, 9–8–64, Cl. 137—624.11.
Benton, Robert C., and R. R. Whitehouse, to Centre Circuits, Inc. Difference gage. 3,154,858, 11–3–64, Cl. 33—125.
Benton, Rufus R. C., to HRB-Singer, Inc. Cross modulation detector means tuned to local oscillator frequency. 3,147,440, 9–1–64, Cl. 325—472.
Benton, Toliver P., ⅛ to Gadget-of-The-Month Club, Inc. Sharpening apparatus for shears and scissors. 3,131,518, 5–5–64, Cl. 51—185.
Bentov, Itzhak, to General Motors Corp. Power transmission. 3,119,283, 1–28–64, Cl. 74—640.
Bentov, Itzhak, to Oneida, Ltd. Dressing. 3,157,178, 11–17–64, Cl. 128—156.
Bentworth Engineers NV: *See*—
Hale, Gerald K., A. W., and R. D. 3,132,616.
Benun, David: *See*—
Halsted, Hal F., Benun, Mamone, and Anderson. 3,135,203.
Benwell, Michael R., to The Magnavox Electronics Co. Ltd. Automatic record changing phonographs. 3,128,101, 4–7–64, Cl. 274—10.
Benyon, Carl W., Jr.: *See*—
Nelson, Herbert, and Benyon. 3,158,512.
Benz, Emil, to Litton Systems, Inc. Ion drag pumps. 3,133,500, 5–19–64, Cl. 103—1.
Benz, Fritz, E. Gaeumann, L. Neipp, P. Reusser, A. Stalder, and A. Wettstein, to Ciba Corp. Bagacidin and process for its manufacture. 3,131,124, 4–28–64, Cl. 167—65.

Benz, Josef, 10% to W. E. Thomson, 10% to T. B. Roessel, and 5% to J. R. Schovee. Lawn mower and attachment therefor. 3,118,268, 1–21–64, Cl. 56—255.
Benz, Robert, to United States of America, Atomic Energy Commission. Preparation of PuF3. 3,123,436, 3–3–64, Cl. 23—14.5.
Benz, Rudi O.: *See*—
Koch, Ernst, Benz, and Jochum. 3,163,605.
Benz, Willi, and K. Ege, to Zahnradfabrik Friedrichshafen, Aktiengesellschaft. Methods of selective carburization of ferrous metal surfaces and materials therefor. 3,151,002, 9–29–64, Cl. 148—16.5.
Benzel, Howard A., to Scott Aviation Corp. Singly-adjustable, multiple orifice member. 3,139,114, 6–30–64, Cl. 138—45.
Benzel, Wolfgang, to Dehydag Deutsche Hydrierwerk G.m.b.H. Method of forming and maintaining films on surfaces of liquids. 3,127,235, 3–31–64, Cl. 21—60.5.
Benzing, Erhard P., to Monsanto Chemical Co. Process of preparing α,β-unsaturated thioethers. 3,118,002, 1–14–64, Cl. 260—609.
Benzing, Walter C.: *See*—
Krsek, George, Benzing, and Topas. 3,131,098.
Benzinger, Gerald T.: *See*—
Harding, William R., Sr., Benzinger, and Lewandowski. 3,160,240.
Benzinger, Theodor H. Clinical ear thermometer. 3,156,117, 11–10–64, Cl. 73—359.
Beranek, Rudolph, to United Sheet Metal Co., Inc. Sheet metal forming machines. 3,151,657, 10–6–64, Cl. 153—21.
Berard, Wilfred N.: *See*—
Reeves, Wilson A., and Berard. 3,119,715.
Berardi, Martin J. Water purification and conditioning system for lobster tank. 3,146,195, 8–25–64, Cl. 210—169.
Berardinelli, Frank M.: *See*—
Dolce, Thomas J., and Berardinelli. 3,133,896.
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Berardino, Vincent: *See*—
Pellegrino, Frank G., Taylor, and Berardino. 3,147,180.
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Reuvers, Andrew A., and Berari. 3,135,051.
Berchtold, Joseph E., J. P. King, L. R. Madson, S. P. Nordling, and C. A. Ramsel, to Caterpillar Tractor Co. Track type vehicle power train. 3,137,182, 6–16–64, Cl. 74—720.5.
Berchtold, Ludwig, A. Schuster, and H. Marker. Safety ski binding. 3,145,027, 8–18–64, Cl. 280—11.35.
Berchtold, Merrill E.: *See*—
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Berczynski, Frank A.: *See*—
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Berdrow, Joseph P. Electric wire connection clip. 3,143,596, 8–4–64, Cl. 174—92.
Berenbak, William M., T. J. Farrell, and H. R. Knox, to Allied Chemical Corp. Trimming of large bodies of resinous cellular materials. 3,150,469, 9–29–64, Cl. 51—80.
Berenbaum, Arthur, to Philco Corp. Control mechanism for laundering equipment. 3,129,361, 4–14–64, Cl. 317—139.
Berenbaum, Morris B., and R. H. Gobran, to Thiokol Chemical Corp. Triazine sulfenyl chloride curing agents. 3,128,271, 4–7–64, Cl. 260—248.
Berenschot, Donald J., E. G. King, R. K. Stubbs, and G. R. Bobalik, to Armour Pharmaceutical Co. Quaternary ammonium germicide. 3,140,976, 7–14–64, Cl. 167—22.
Beres, John F., to Philco Corp. Gain control system for common-collector transistor stage. 3,148,338, 9–8–64, Cl. 330—29.
Beres, John F., A. Hopengarten, and R. F. Wood, to Philco Corp. Negative feedback tone control circuit. 3,130,374, 4–21–64, Cl. 330—28.
Beretta, Pier C., to Fabbrica D'Armi P. Beretta S.p.A. Combination gas-operated firearm and bomb or grenade thrower. 3,156,992, 11–17–64, Cl. 42—1.
Beretvas, Helen S., and F. Ramirez, to Standard Oil Co. Method of stabilizing sulfur-containing organic compositions. 3,136,749, 6–9–64, Cl. 260—139.
Berex Establishment: *See*—
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Guiot, Maurice. 3,122,666.
Berg Airlectro Products Co.: *See*—
Berg, Arthur A. 3,156,330.
Berg, Arthur A., Dobrikin, and Schreiber. 3,150,899.
Dobrikin, Harold L. 3,117,496.
Dobrikin, Harold L., and Horowitz. 3,151,525.
Dobrikin, Harold L., and Mastis. 3,131,609.
Berg, Alex, to Dr. Karl Thomae G.m.b.H. Amino-substituted butanols as cough-depressants. 3,121,087, 2–11–64, Cl. 260—294.7.
Berg, Alvin L., to Hughes Aircraft Co. Circularly oriented memory elements. 3,144,159, 8–18–64, Cl. 204—228.
Berg, Arthur A., to Berg Airlectro Products Co. Cylinder attaching structure. 3,156,330, 11–10–64, Cl. 189—36.
Berg, Arthur A., H. L. Dobrikin, and C. H. Schreiber, to Berg Airlectro Products Co. Load responsive pressure control system. 3,150,899, 9–29–64, Cl. 303—22.
Berg, Chester P., to Manor Hosiery Mills, Inc. Hosiery. 3,132,496, 5–12–64, Cl. 66—178.
Berg, Daniel, and C. W. Lewis, to Westinghouse Electric Corp. Circuit interrupters utilizing a gas-evolving material as an arc extinguishing agent. 3,138,683, 6–23–64, Cl. 200—120.
Berg, Edgar A. Tire repair plug inserting apparatus. 3,122,951, 3–3–64, Cl. 81—15.7.
Berg, Elaine. Prayer cabinets. 3,120,410, 2–4–64, Cl. 312—33.
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Sitzler, Fred C. 3,151,443.
Berg, Jack V., to Minnesota Mining and Mfg. Co. Label dispenser. 3,128,012, 4–7–64, Cl. 221—70.
Berg, Leo, J. Nachreiner, and A. Schöll, to Knapsack-Griesheim Aktiengesellschaft. Apparatus for conducting sintered material from a sintering grate to a cooling grate. 3,155,378, 11–3–64, Cl. 263—8.
Berg, Louis, to Duplic Industries. Sample collector. 3,153,345, 10–20–64, Cl. 73—423.
Berg, Ragnar, to Svenska Dataregister Ab. Cart. 3,140,758, 7–14–64, Cl. 186—1.
Berg, Ralph L., to Controls Co. of America. Direction controlling means for synchronous motors. 3,146,867, 9–1–64, Cl. 192—4.
Berg, Robert A., to Weyerhaeuser Co. Carton. 3,137,434, 6–16–64, Cl. 229—31.
Berg, Robert E.: *See*—
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Berg, Rudolph G., to Chas. Pfizer & Co., Inc. 2,2′-oxodisuccinic acid, derivatives thereof, and process for preparing. 3,128,287, 4–7–64, Cl. 260—346.8.
Berg, Samuel S., to May & Baker Ltd. Methods for treating babesiasis. 3,143,461, 8–4–64, Cl. 167—53.
Berg, Vernon R. Tie-stall for cattle. 3,123,051, 3–3–64, Cl. 119—119.
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Berg, Willie. Musician's foot rest. 3,155,364, 11–3–64, Cl. 248—439.
Bergan, Reuben A., to Well Surveys, Inc. Method and apparatus for controlling a sealed atmosphere. 3,123,739, 3–3–64, Cl. 315—108.
Bergan, Reuben A., to Dresser Industries, Inc. Vacuum container. 3,149,741, 9–22–64, Cl. 220—10.
Bergandi, Frank, and H. E. Rohrbacher, to Bergandi Mfg. Co., Inc. Shaft positioning device. 3,144,887, 8–18–64, Cl. 140—926.
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Berge, Sven E., P. G. R. G. Grenander, and S. E. Philip, to Aktiebolaget Bofors. Device for protection against bursting projectiles. 3,137,205, 6–16–64, Cl. 89—36.
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Lewis, Henry W., and Bergen. 3,120,591.
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Davis, Charles S., Jr., and Baker. 3,144,790.
Bergens, Bill. Swimming aid with adjustable buoyancy. 3,138,809, 6–30–64, Cl. 9—339.
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Berger, Alvin J., to Minneapolis-Honeywell Regulator Co. Air conditioning control apparatus. 3,138,326, 6–23–64, Cl. 236—1.
Berger, Arthur, and E. E. Borgaes, to Baxter Laboratories, Inc. Novel 4-thiohydantoic acids. 3,121,111, 2–11–64, Cl. 260—534.
Berger, Carl, and R. M. Lurie, to Ionics, Inc. Dual membrane fuel cell and the use of the same for producing electrical energy. 3,152,014, 10–6–64, Cl. 136—86.
Berger, Charles D.: *See*—
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Berger, Charles V., to Universal Oil Products Co. Combination catalytic reforming process. 3,133,012, 5–12–64, Cl. 208—95.
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Berger, Earl L.: *See*—
Hefley, Gifford, Linfield, Doherty, and Berger. 3,122,076.
Berger, Emil J., and H. K. West, to Turbo Machine Co. Textile treating apparatus. 3,131,840, 5–5–64, Cl. 223—76.
Berger, Emil J., and H. K. West, to Turbo Machine Co. Textile treating apparatus. 3,162,031, 12–22–64, Cl. 68—5.
Berger, Frank M., C. Hubbard, and W. Braun, to Carter Products, Inc. Endotoxin fractions and method for producing same. 3,132,995, 5–12–64, Cl. 167—78.
Berger, Fred E.: *See*—
Finlay, Alexander, and Berger. 3,120,861.
Berger, Gérard G. J.: *See*—
Guinard, Paul A., and Berger. 3,141,475.
Berger, Gerard J. G.: *See*—
Guinard, Paul A., and Berger. 3,150,684.
Berger, Hans. Glare shield attachment for automotive vehicles. 3,158,396, 11–24–64, Cl. 296—97.
Berger, Heinz: *See*—
Hellmig, Ehrhard, and Berger. 3,130,053.

Berger, Heinz, R. Schmidt, and H. Schnoring, to Agfa Aktiengesellschaft. Developing machine for photographic material. 3,121,382, 2–18–64, Cl. 95—94.
Berger, Henry G., F. P. Otto, and J. W. Schick, to Socony Mobil Oil Co., Inc. Fuel containing nitrogen-containing oxidized oil products. 3,121,622, 2–18–64, Cl. 44—63.
Berger, Henry G., F. P. Otto, and J. W. Schick, to Socony Mobil Oil Co., Inc. Nitrogen-containing oxidized oil products and fuel and lubricating oil compositions containing the same. 3,121,690, 2–18–64, Cl. 252—51.5.
Berger, Herbert F., H. W. Gehm, and A. J. Herbert, to National Council for Stream Improvement (of the Pulp, Paper and Paperboard Industries) Inc. Decolorizing kraft waste liquors. 3,120,464, 2–4–64, Cl. 162—33.
Berger, Jacob: *See*—
Gottfried, Louis, and Berger. 3,135,546.
Berger, Jacques: *See*—
Barabach, Boris, Berger, Dupuy, Lacour, and Ralevski. 3,147,189.
Berger, John H., to Arthur G. McKee & Co. Production of nitrogen dioxide. 3,136,602, 6–9–64, Cl. 23—162.
Berger, Josef, to Zavody Vitezneho unora, narodni podnik. Crystallizer for sugar and the like. 3,130,080, 4–21–64, Cl. 127—15.
Berger, Joseph C., Jr., to Airsun Corp. Damping of surface movement of quench bath in melt spinning process. 3,126,-434, 3–24–64, Cl. 264—178.
Berger, Julius, M. W. Goldberg, M. Müller, and L. H. Sternbach. Antibiotic and method of production. 3,118,813, 1–21–64, Cl. 167—65.
Berger, Kornel. Socket shells. 3,126,160, 3–24–64, Cl. 240—153.
Berger, Leo J., Jr., to Scans Associates, Inc. Pressure indicating device. 3,150,525, 9–29–64, Cl. 73—407.
Berger, Martin. Optical-mechanical nomograph. 3,132,800, 5–12–64, Cl. 235—61.
Berger, Michael Z., and J. Mermelstein. Display device. 3,162,008, 12–22–64, Cl. 58—126.
Berger, Otto. Long scale moving coil electrical measuring instrument with additional flux augmenting magnet means in the air gap. 3,139,581, 6–30–64, Cl. 324—150.
Berger, Paul: *See*—
Feinberg, Albert E., and Berger. 3,125,705.
Berger, Pierre, to Compagnie des Ateliers et Forges de la Loire (St. Chamond-Firminy-St. Etienne-Jacob-Holtzer). Extrusion apparatus having cone-shaped rotor means. 3,129,460, 4–21–64, Cl. 18—12.
Berger, Richard F., to Foster Grant Co., Inc. Plastic decorating method. 3,122,598, 2–25–64, Cl. 264—247.
Berger-Rivenburgh: *See*—
Berger, Sol J., and Rivenburgh. 3,147,560.
Berger, Rolf: *See*—
Riemenschneider, Fritz, and Berger. 3,138,978.
Berger, Samuel. Shirt with improved adjustable collar button. 3,142,843, 8–4–64, Cl. 2—128.
Berger, Sol J., and J. G. Rivenburgh, to Berger-Rivenburgh. Advertising display. 3,147,560, 9–8–64, Cl. 40—125.
Berger, Stanley, to Auricord Corp. Tape lifter for tape recorder. 3,141,594, 7–21–64, Cl. 226—199.
Berger, Stanley, and L. Rosenblatt, to Auricord Corp. Tape recorder transport. 3,124,318, 3–10–64, Cl. 242—55.12.
Berger, Stephen: *See*—
Mahana, Joseph, and Berger. 3,120,895.
Bergere, Emric W.: *See*—
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Bergeron, Edward J. Barrel clamp for hand trucks. 3,132,-401, 5–12–64, Cl. 24—263.
Bergerson, Harold L., and D. S. Potter; said Potter assor. to said Bergerson. Wheel-supported boom and vehicle. 3,119,504, 1–28–64, Cl. 254—139.1.
Bergerson, Harold L., and D. S. Potter; said Potter assor. to said Bergerson. Vehicle with boom. 3,141,654, 7–21–64, Cl. 254—139.1.
Bergey, Ellwood, and A. F. Graf von Soden. Temperature responsive magnetic coupling. 3,144,573, 8–11–64, Cl. 310—94.
Bergfield, Lawrence W. Grille rotator. 3,131,685, 5–5–64, Cl. 126—25.
Berggren, Loring J., and C. T. Hathaway; said Berggren assor. to Monsanto Co. Coating of biaxially oriented film. 3,160,917, 12–15–64, Cl. 18—14.
Berggren, Loring J., and C. T. Hathaway; said Berggren assor. to Monsanto Co. Apparatus utilizing a lubricated mandrel for introducing biaxial orientation into thermoplastic tubular members. 2,160,918, 12–15–64, Cd. 18—14.
Bergh, Sven S., to Wargöns Aktiebolag. Powder-metallurgical production of bodies intended for further working. 3,126,279, 3–24–64, Cl. 75—200.
Berghaus, Bernhard, to Elektrophysikalische Anstalt Bernhard Berghaus. Method of reducing barrel wear. 3,130,-671, 4–28–64, Cl. 102—93.
Berghaus, Bernhard, and H. Bucek, to Elektrophysikalische Anstalt Bernhard Berghaus. Two electrode arrangement for electric glow discharge chambers. 3,117,246, 1–7–64, Cl. 313—146.
Berghaus, Bernhard, and M. Staesche. Method of producing metals. 3,135,675, 6–2–64, Cl. 204—164.
Berghaus, Bernhard, and M. Staesche. Method of producing N-H compounds, particularly hydrazine compounds. 3,152,056, 10–6–64, Cl. 204—177.
Berghgracht, Marius: *See*—
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Boone, Joseph. 3,146,685.
Bergling, Charles G. B. Mould for the manufacture of lightweight concrete blocks. 3,133,333, 5–19–64, Cl. 25—119.
Berglov, Erik S.: *See*—
Backstrom, Sven H., and Berglov. 3,131,037.
Berglund, Arthur, to Sperry Rand Corp. Coil winding machine. 3,141,623, 7–21–64, Cl. 242—4.
Berglund, Carl O., and R. R. Thompson. Liquid level controller. 3,131,335, 4–28–64, Cl. 317—148.5.
Berglund, Karl B.: *See*—
Barendsen, Pieter, and Berglund. 3,153,476.
Berglund, Nils S., to Alfredeen A. Ingenjorsfirma, AB. Axially movable coupling. 3,118,291, 1–21–64, Cl. 64—23.7.
Bergman, Elliot, to Shell Oil Co. Soluble nitrogen-containing derivatives of unsaturated aldehyde polymers, their preparation and use. 3,121,700, 2–18–64, Cl. 260—29.6.
Bergman, Elliot, to Shell Oil Co. Water-soluble sulfur and nitrogen containing derivatives of unsaturated aldehyde polymers, their preparation and use. 3,159,594, 12–1–64, Cl. 260—29.6.
Bergman, Lars G., to Jarnbirger Aktiebolag. Coupling. 3,134,221, 5–26–64, Cl. 59—85.
Bergman, Lars O., to Aktiebolaget Pellerins Margarinfabrik. Method for purifying fat. 3,147,291, 9–1–64, Cl. 260—424.
Bergman, Paul F., to Johnson Products, Inc. Rocker arm oiling system. 3,144,094, 8–11–64, Cl. 184—6.
Bergman, Peter K.: *See*—
Jefferts, Keith B., and Bergman. 3,128,744.
Bergman, Richard H., to Radio Corp. of America. Pulse regenerator with negative resistance diode biased in high-voltage by inductor and constant-voltage source. 3,119,936, 1–28–64, Cl. 307—88.5.
Bergman, Richard H., to Radio Corp. of America. Two-diode monostable circuit. 3,119,937, 1–28–64, Cl. 307—88.5.
Bergman, Richard H., E. C. Cornish, and M. M. Kaufman, to Radio Corp. of America. Logic circuit having bistable tunnel diode reset by monostable diode. 3,133,206, 5–12–64, Cl. 307—88.5.
Bergman, Richard I.: *See*—
Hemminger, Charles E., and Bergman. 3,162,583.
Bergman, Sten G. A., and J. B. Stalfors. Anti-blast valve. 3,140,648, 7–14–64, Cl. 98—119.
Bergman, Stephen A., and D. F. Cockrell, to Panhandle Eastern Pipe Line Co. Combination valve and cleaning ball launcher. 3,146,477, 9–1–64, Cl. 15—104.06.
Bergmann, Anders K., to Telefonaktiebolaget L M Ericsson. Circuit arrangement for signalling through telephone lines. 3,138,668, 6–23–64, Cl. 179—18.
Bergmann, Anders K., A. C. Jacobaeus, and H. Scheftelowitz, to Telefonaktiebolaget L M Ericsson. Telecommunication system. 3,159,720, 12–1–64, Cl. 179—15.55.
Bergmann, Anna, and R. Janser. Dispensing brush. 3,135,-990, 6–9–64, Cl. 15—604.
Bergmann, Josef, and G. Engels, to North American Philips Co., Inc. Device for abrazing and polishing in particular curved-surfaces of glass objects. 3,149,443, 9–22–64, Cl. 51—196.
Bergmann, Joseph C. Multiple circular shear. 3,144,796, 8–18–64, Cl. 82—57.
Bergmeister, Eduard: *See*—
Heckmaier, Joseph, Bergmeister, and Beier. 3,145,194.
Bergquist, Clifford A., to Pendleton Tool Industries, Inc. Reversible ratchet drive. 3,127,799, 4–7–64, Cl. 81—62.
Bergslien, Robert M., and J. L. Radnik, to The Skinner Chuck Co. Linear eddy-current electromagnetic actuator. 3,148,-292, 9–8–64, Cl. 310—13.
Bergson, Gustav. Plural input signal comparing means using differential electrometer amplifier means. 3,135,918, 6–2–64, Cl. 324—140.
Bergstrand, Lars W. Veneer slitting apparatus. 3,163,071, 12–29–64, Cl. 83—433.
Bergstrand, Ralph B.: *See*—
Borger, Jack W., De Paoli, and Bergstrand. 3,147,868.
Gutridge, Jack E., and Bergstrand. 3,129,672.
Bergsträsser, Georg, to Telefonbau und Normalzeit G.m.b.H. Damping means for magnetic reed contact. 3,129,3111, 4–14–64, Cl. 200—166.
Bergstrom, Adolph G., and E. F. Rydell, to Bergstrom Mfg. Co. Vehicle heating apparatus. 3,131,757, 5–5–64, Cl. 165—35.
Bergstrom, Carl P., and R. F. Dion, to Crompton & Knowles Corp. Combined shuttle box changing mechanism and lay motion. 3,128,796, 4–14–64, Cl. 139—171.
Bergstrom, Carl V., ½ to P. C. Parfitt, and ⅛ each to E. B. Keithley, E. B. Olson, and W. N. Bergstrom, and 1/16 each to R. J. Thurrel, and R. B. Thurrel. Acoustical and thermal insulation. 3,126,978, 3–31–64, Cl. 181—33.
Bergstrom, Clarence G., to G. D. Searle & Co. 21-halo-20-hydroxypregn-4-en-3-ones and esters thereof. 3,138,623, 6–23–64, Cl. 260—397.47.
Bergstrom, Eric V., to Socony Mobil Oil Co., Inc. Catalytic conversion of hydrocarbons with a silica-alumina and crystalline zeolite catalyst composite. 3,143,491, 8–4–64, Cl. 208—74.
Bergstrom, Eric V., and R. J. Devlin, to Socony Mobil Oil Co., Inc. Isothermal-adiabatic catalytic hydrocarbon conversion. 3,128,242, 4–7–64, Cl. 208—65.
Bergstrom, Evar W. Vertically adjustable shelf bracket and channel support. 3,158,349, 11–24–64, Cl. 248—243.
Bergstrom, Harold A., to Continental Can Co., Inc. Method of making edge reinforced tubes used in forming reinforced fiber drums. 3,151,012, 9–29–64, Cl. 156—184.

Bergstrom, Harold A., to Continental Can Co., Inc. Folded plastic bag in fiber drum. 3,155,305, 11–3–64, Cl. 229—14.
Bergstrom, Lars R., to Allmanna Svenska Elektriska Aktiebolaget. Damping device for oil circuit breakers. 3,118,997, 1–21–64, Cl. 200—150.
Bergstrom Mfg. Co.: *See*—
Bergstrom, Adolph G., and Rydell. 3,131,757.
Bergstrom, Sven E.: *See*—
Johansson, Folke K. E., and Bergstrom. 3,163,696.
Bergstrom, William N.: *See*—
Bergstrom, Carl V. 3,126,978.
Bergum, Robert L. Outboard motor attachment. 3,136,280, 6–9–64, Cl. 115—17.
Bergvall, Par, and K. M. B. Siegbahn, to Electrolux, Aktiebolaget. Thermoelectric refrigeration. 3,127,749, 4–7–64, Cl. 62—3.
Bergwerksgesellschaft Hibernia A.G.: *See*—
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Steinle, Walther, Schiwy, and Schmitt. 3,146,493.
Bergwerksverband G.m.b.H.: *See*—
Benning, Anton, Dolling, and Grosskinsky. 3,150,171.
Benning, Anton, and Handrick. 3,160,653.
Bergy, Malcolm E.: *See*—
Dietz, Alma, De Boer, Smith, Bergy, and Hoeksema. 3,118,874.
Bergy, Malcolm E., R. R. Herr, and D. J. Mason, to The Upjohn Co. Antibiotic composition. 3,155,580, 11–3–64, Cl. 167—65.
Berhenke, Luther F., to The Dow Chemical Co. Automatic melting point recorder. 3,150,514, 9–29–64, Cl. 73—17.
Berhman, John W.: *See*—
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Beriger, Ernst, to Ciba Ltd. O,O-dialkyl S-alkanyl phosphorothioates and insecticidal compositions and methods employing same. 3,136,686, 6–9–64, Cl. 167—22.
Beriger, Ernst. Methods and compositions for combating pests with beta-phosphate esters of 2-butenoates of mono glyceriate heterocyclic acetals and glyceriate carbonates. 3,136,690, 6–9–64, Cl. 167—33.
Beriger, Ernst, to Ciba Ltd. Beta-phosphate esters of -2-butenoates of monoglyceriate heterocyclic acetals and glyceriate carbonates. 3,136,784, 6–9–64, Cl. 260—340.7.
Bering, Jorgen D. Balanced valves. 3,121,444, 2–18–64, Cl. 137—432.
Berk, F. W., & Co. Ltd.: *See*—
Kudelka, Vitezslav. 3,140,826.
Berk, Howard E. Book stop device. 3,121,494, 2–18–64, Cl. 211—43.
Berk, Marianne, to Berk Research Corp. Cabinet locking device. 3,147,030, 9–1–64, Cl. 292—288.
Berk Research Corp.: *See*—
Berk, Marianne. 3,147,030.
Berk, William J.: *See*—
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Berkeley-Davis, Inc.: *See*—
Berkeley, Laurence J. 3,119,536.
Berkeley, Laurence J., to Berkeley-Davis, Inc. Wire feeding apparatus. 3,119,536, 1–28–64, Cl. 226—110.
Berkeley, Peter J., Jr., L. V. Robbins, Jr., and R. N. Watts, to Esso Research and Engineering Co. Conversion of aldox aldehydes to alcohols. 3,127,451, 3–31–64, Cl. 260—638.
Berkey, Harry L., to Landis Machine Co. Thread cutting chaser for buttress thread cutting. 3,148,394, 9–15–64, Cl. 10—111.
Berkl, Josef U.: *See*—
Wing, George S., Dickie, and Berkl. 3,156,514.
Berkley Machine Co.: *See*—
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Berkley, Richard E.: *See*—
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Berkow, Samuel G., to Menlo Park Laboratories, Inc. Hygienic dispenser apparatus. 3,161,196, 12–15–64, Cl. 128—225.
Berkowitz, Eugene B., to Tension Envelope Corp. Window envelope for mailing bank statements and the like. 3,136,476, 6–9–64, Cl. 229—71.
Berkowitz, Lewis M., M. D. Shoaf, and R. E. Schachat, to General Foods Corp. Pastry mix having thiolated gelatin incorporated therein and method utilizing said mix. 3,157,515, 11–17–64, Cl. 99—92.
Berks, William I., and V. Brajer, to United States of America, Navy. Device to eliminate shear slide in pre-packaged liquid powerplants. 3,138,001, 6–23–64, Cl. 60—39.48.
Berkstresser, Jerry W.: *See*—
Hashman, Joseph S., Renforth, and Berkstresser. 3,119,665.
Hashman, Joseph S., and Berkstresser. 3,119,870.
Berlad, Abraham L., to General Dynamics Corp. Apparatus for the safe storage and handling of normally explosive materials. 3,142,159, 7–28–64, Cl. 62—48.
Berlant, Sigmund. Electrically controlled reversible hydraulic circuit means for rotary and axially movable tool spindle. 3,137,016, 6–16–64, Cl. 10—136.
Berlien, Doyne B., and A. H. Mumma, to E. I. du Pont de Nemours and Co. Process for producing prilled urea of low biuret content. 3,124,624, 3–10–64, Cl. 264—13.
Berliet, M., Automobiles: *See*—
Bouladon, Gabriel, and Zuppiger. 3,161,249.
Berlin, Daniel. Child's convertible bed and seat. 3,124,388, 3–10–64, Cl. 297—320.
Berlin, Daniel. Child's car seat. 3,146,026, 8–25–64, Cl. 297—255.
Berlin, Daniel. Convertible cart. 3,150,616, 9–29–64, Cl. 108—16.
Berlin, Lloyd W.: *See*—
Chambers, Wallace M., and Berlin. 3,127,163.
Berlin, Milton, and L. M. Rheingold, to Templet Industries, Inc. Rule die set and apparatus for making same. 3,120,601, 2–4–64, Cl. 219—69.
Berlin, Milton, and L. M. Rheingold, to Templet Industries, Inc. Rule die and punch unit and method of resetting the same. 3,150,550, 9–29–64, Cl. 83—13.
Berlin, Norton H., to Esso Research and Engineering Co. Separation by selective desorption of silica gel. 3,150,079, 9–22–64, Cl. 208—310.
Berlin, Norton H., and P. P. McCall, to Esso Research and Engineering Co. Hydrogenation process employing hydrogen absorbed by the feed. 3,152,981, 10–13–64, Cl. 208—264.
Berlind, Harriet E. Facial mask. 3,137,006, 6–16–64, Cl. 2—9.
Berliner, Henry A. Apparatus for making structural units and the like. 3,148,431, 9–15–64, Cl. 25—11.
Berliner, Henry A., and W. L. Greene. Apparatus for extruding reinforced members. 3,146,508, 9–1–64, Cl. 25—14.
Berliner, Mayer: *See*—
Lulla, Jack D., Wacks, and Berliner. 3,142,377.
Berliner, Paul, to American Radiator & Standard Sanitary Corp. Rotary device and associated method. 3,133,596, 5–19–64, Cl. 170—159.
Berlinger, Bernard E., Jr., and H. E. Sulzer, to Quaker City Gear Works Inc. Gear assembly. 3,120,764, 2–11–64, Cl. 74—801.
Berlings, Orests B. Photographic film cassettes. 3,159,357, 12–1–64, Cl. 242—71.1.
Berlinsky, Anthony A., M. J. Brennan, and C. H. Stockton, to United States of America, Commerce. Floating-point keypunch machine. 3,145,920, 8–25–64, Cl. 234—55.
Berlinsky, Shmuel: *See*—
Daugirdas, Kristupas, and Berlinsky. 3,121,152.
Berlyn, Martin J. Fuel injection nozzle. 3,118,611, 1–21–64, Cl. 239—533.
Berlyn, Martin J., to Dominion Engineering Works Ltd. Overspeed prevention device. 3,139,166, 6–30–64, Cl. 192—3.
Berlyn, Martin J. Method of cancelling gyro drift. 3,142,994, 8–4–64, Cl. 74—5.34.
Berman, Alex: *See*—
Pertusio, Rene F., and Berman. 3,129,766.
Berman, Baruch, and D. W. Rogers, to ACF Industries, Inc. Rectifying circuit for polyphase sources and application to D.C. motor control. 3,151,286, 9–29–64, Cl. 321—27.
Berman, Elliot, and D. B. McQuain, to The National Cash Register Co. 3,3′-dimethyl-6′-nitro-spiro-[benzoxazole-2,2′-(2′H-1′-benzopyran)]. 3,149,120, 9–15–64, Cl. 260—307.
Berman, Herbert I., to Armstrong Cork Co. Resinous reaction products of unsaturated acetal and cyclic formal. 3,132,126, 5–5–64, Cl. 260—88.3.
Berman, Herbert I., to Penn-Chem Corp. Clip. 3,132,396, 5–12–64, Cl. 24—27.
Berman, Irvin, to United States of America, Air Force. Method of making silicon carbide negative resistance diode. 3,124,454, 3–10–64, Cl. 75—177.
Berman, Jacob, L. A. Casper, and H. Weiss. Modular dispensing display rack. 3,152,697, 10–13–64, Cl. 211—49.
Berman, Joseph B.: *See*—
Smith, Richard G., and Berman. 3,154,049.
Berman, Kurt, to General Electric Co. Propellant charge containing fluid encapsulations. 3,143,446, 8–4–64, Cl. 149—2.
Berman, Lawrence U., and R. H. Crouse, to Union Carbide Corp. Method of making 4-nitrotoluene. 3,149,169, 9–15–64, Cl. 260—645.
Berman, Leon, to Radio A.I.R. Applications Industrielles Radioelectriques. Frequency-stabilized oscillation generator system. 3,126,515, 3–24–64, Cl. 331—22.
Berman, Léon, to C.I.T. Compagnie Industrielle des Telecommunications. Devices supplying stabilised feed voltages. 3,145,334, 8–18–64, Cl. 321—2.
Berman, Leon, to Compagnie Industrielle des Telephones. Electronic coding device for radioelectric or telephone links. 3,155,908, 11–3–64, Cl. 325—35.
Berman, Leon, to Compagnie Industrielle des Telephones. Temperature controlled enclosure for a piezoelectric device. 3,162,779, 12–22–64, Cl. 310—8.9.
Bermingham, John R., to Leslie Co. Throttling valve. 3,125,122, 3–17–64, Cl. 137—625.3.
Bernada, René: *See*—
Maratuech, Paul, and Bernada. 3,158,782.
Bernadotte, Sigvard: *See*—
Bjorn, Acton, and Bernadotte. 3,148,477.
Bernand, Rene, to Rolltex, A.G. Apparatus for making composite mosaic. 3,130,106, 4–21–64, Cl. 156—552.
Bernard, David W., to Sperry Rand Corp. Magnetic encoder. 3,160,875, 12–8–64, Cl. 340—347.
Bernard, Frank J. Coupling devices for joining tubular members to structural elements. 3,118,694, 1–21–64, Cl. 287—2.

Bernard, George G.: *See*—
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Schaschl, Edward, and Bernard. 3,155,533.
Bernard, George G., to The Pure Oil Co. Combination fracturing and secondary recovery method. 3,163,212, 12–29–64, Cl. 166—9.
Bernard, George G., to The Pure Oil Co. Waterflooding method of secondary recovery using liquid hydrogen sulphide. 3,163,213, 12–29–64, Cl. 166—9.
Bernard, George G., and O. C. Holbrook, to The Pure Oil Co. Waterflooding of clay containing reservoirs. 3,123,135, 3–3–64, Cl. 166—9.
Bernard, George G., and O. C. Holbrook, to The Pure Oil Co. Control of permeability during waterflooding. 3,141,501, 7–21–64, Cl. 166—9.
Bernard, Harry M., Jr., to United States Steel Corp. Sheet piler. 3,132,858, 5–12–64, Cl. 271—68.
Bernard, Herbert J., and J. A. Morgan. Trailer hitch load distributing means. 3,129,957, 4–21–64, Cl. 280—406.
Bernard, James A.: *See*—
Fauber, Carl R., and Bernard. 3,147,325.
Bernard, John S. Fuel pump apparatus. 3,150,595, 9–29–64, Cl. 103—37.
Bernard, John S. Rotary engine apparatus. 3,150,646, 9–29–64, Cl. 123—16.
Bernard, Maurice J.: *See*—
Freedman, Ely, Bernard, Meyer, and Mayer. 3,118,176.
Bernard, William B., to United States of America, Navy. Height finding radar. 3,160,885, 12–8–64, Cl. 343—100.
Bernardi, Dominic J., B. V. Burachinsky, and R. S. Czeropski, to Interchemical Corp. High speed printing with super-fast inks. 3,141,408, 7–21–64, Cl. 101—426.
Bernardi, Luigi: *See*—
Patelli, Bianca, and Bernardi. 3,141,887.
Bernardi, Luigi, G. Larini, and A. Leone, to Società Farmaceutici Italia. Synthesis of 2-amino-3-methoxy 5-chloro pyrazine. 3,158,612, 11–24–64, Cl. 260—250.
Bernas, Robert. Apparatus for storing, handling and/or utilizing highly radioactive materials. 3,127,515, 3–31–64, Cl. 250—106.
Bernatt, Joseph, to James R. Kearney Corp. Rotating blade switch. 3,134,865, 5–26–64, Cl. 200—48.
Bernatt, Joseph, to James R. Kearney Corp. Conductive hinge structure for electric switch. 3,148,252, 9–8–64, Cl. 200—48.
Bernauer, Karl, P. Karrer, and H. Schmid, to Hoffmann-La Roche Inc. Prefaration of carbazole compounds. 3,118,897, 1–21–64, Cl. 260—294.7.
Berndsen, Alphonsius F. J., to North American Philips Co., Inc. Method of manufacturing semi-conductor devices. 3,136,032, 6–9–64, Cl. 29—155.5.
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Berndt, Walter, L. Hörnig, O. Probst, W. Schmidt, U. Schwenk, and E. Weber, to Consortium fur Elektrochemische Industrie G.m.b.H. Process for oxidizing olefins to aldehydes and ketones. 3,122,586, 2–25–64, Cl. 260—586.
Berner, Leo, to United States of America, Navy. Missile handling trailer. 3,133,654, 5–19–64, Cl. 214—501.
Berner, Roland A., to Ceramic Combustion and Engineering Co. Method and apparatus for making pallets. 3,147,692, 9–8–64, Cl. 100—2.
Bernérus, David, and E. L. Johnsson. Arrangement in sewing machines for exchanging bobbins. 3,125,973, 3–24–64, Cl. 112—186.
Berness, Daniel R.: *See*—
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Bernet, Edwin J., to Institute of Textile Technology. Fuzz meter. 3,140,604, 7–14–64, Cl. 73—160.
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Bernfeld, Isabel M., to Designers U.S.A. Inc. Brassieres. 3,119,393, 1–28–64, Cl. 128—489.
Bernhard, Richard L., to American Radiator & Standard Sanitary Corp. Hermetic motor cooling by direct expansion of system refrigerant into motor. 3,122,894, 3–3–64, Cl. 62—117.
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Bernheim, George W. Photoelectric switch adapter for lamps, lanterns and the like. 3,163,768, 12–29–64, Cl. 250—238.
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Berni, Ralph J., J. B. McKelvey, and R. R. Benerito, to United States of America, Agriculture. Partial ethers of cellulose and d,l-butadiene dioxide. 3,150,920, 9–29–64, Cl. 8—120.
Bernotas, Ralph J., to General Motors Corp. Four wheel drive, two-engine, articulated frame tractor. 3,157,239, 11–17–64, Cl. 180—51.
Bernstein, Alfred M. Flexible sheet treating apparatus. 3,121,436, 2–18–64, Cl. 134—63.
Bernstein, Allan C., to Executone Inc. Electrical connection for circuit component to panel conductor. 3,149,895, 9–22–64, Cl. 339—17.
Bernstein, Arthur. Piano actions. 3,151,516, 10–6–64, Cl. 84—240.
Bernstein, Axel V., and O. A. Backman. Method of making a saw chain. 3,119,284, 1–28–63, Cl. 76—112.
Bernstein, Bernard, to Radio Receptor Co., Inc. Matrix for holding and making electrical connection with a plurality of electrical units. 3,142,000, 7–21–64, Cl. 317—101.
Bernstein-Bervery, Sergio, and J. W. Gray, to General Precision, Inc. Direct coupled negative feedback hybrid amplifier. 3,121,201, 2–11–64, Cl. 330—3.
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Yale, Harry L., Sowinski and Bernstein. 3,127,409.
Yale, Harry L., Sowinski, and Bernstein. 3,133,936.
Bernstein, Jack. Hearing aid tube attachment. 3,157,245, 11–17–64, Cl. 181—23.
Bernstein, Jack, K. A. Losee, and M. A. Dolliver, to Olin Mathieson Chemical Corp. 1-benzyloxy-3-acyl-ureas. 3,121,113, 2–11–64, Cl. 260—553.
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Dusza, John P., Bernstein, and Fahrenbach. 3,118,879.
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Bernstein, Seymour, and J. P. Joseph, to American Cyanamid Co. 16-substituted-3,20-diketo pregnanes and esters thereof. 3,152,119, 10–6–64, Cl. 260—239.5.
Bernstein, Stanley, to General Electric Co. Flaw detection apparatus using two detectors to assure unbalance in a comparison circuit. 3,158,744, 11–24–64, Cl. 250—83.6.
Bernstein, Ursula J. H., J. W. Ducker, B. Ellis, and V. Petrow, to The British Drug Houses Ltd. 4-acylthio and 4-aroylthio derivatives of 3-keto-Δ^4-steroids and process for preparing same. 3,154,542, 10–27–64, Cl. 260—239.55.
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Berridge, Norman J., to National Research Development Corp. Process for the manufacture of cheese curd and of casein. 3,120,443, 2–4–64, Cl. 99—116.
Berrie, Alistair H., and G. Booth, to Imperial Chemical Industries Ltd. Dyestuffs capable of reaction with textile fibers having acylatable hydrogen atoms. 3,117,117, 1–7–64, Cl. 260—162.
Berrie, Alistair H., V. D. Poole, and F. A. Waite, to Imperial Chemical Industries Ltd. Water-soluble fiber reactive dyestuffs having two chromophoric groups and linked together through triazine or phyrimide rings. 3,118,869, 1–21–64, Cl. 260—146.
Berrie, Alistair H., A. Mee, and C. E. Vellins, to Imperial Chemical Industries Ltd. Copper complex triazine monoazo dyestuffs. 3,121,712, 2–18–64, Cl. 260—146.
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Berry, Clifford E., to Consolidated Vacuum Corp. Apparatus for evaporating a material within an ion pump. 3,121,155, 2–11–64, Cl. 219—19.
Berry, Daniel E., to Coach's Sporting Goods Corp. Isometric contraction exercise apparatus. 3,119,614, 1–28–64, Cl. 272—79.
Berry, Earl K., to Smyth, Roston & Pavitt. Slide fastener. 3,153,269, 10–20–64, Cl. 24—201.
Berry, Henry W., to Minneapolis-Honeywell Regulator Co. Computing apparatus. 3,137,790, 6–16–64, Cl. 235—183.
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Berry, James M., to Richardson-Merrell Inc. Angled spray nozzle. 3,152,734, 10–13–64, Cl. 222—211.
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Berry, Joe R., ½ to Lowell Davis. Pumping shock absorber. 3,160,111, 12–8–64, Cl. 103—202.
Berry, John C. Hosiery board and package. 3,116,826, 1–7–64, Cl. 206—46.
Berry, John C. Hosiery board and package. 3,116,830, 1–7–64, Cl. 206—79.
Berry, Kenneth L., and D. M. Sowards, to E. I. du Pont de Nemours and Co. Fibrous metal titanates. 3,129,105, 4–14–64, Cl. 106—55.
Berry, Melvin D., to Radio Corp. of America. Device for cleaning internal tubular surface. 3,124,820, 3–17–64, Cl. 15—104.09.
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Burke, Oliver W., Jr., Grace, Jennen, and Berry. 3,144,-426.
Wymore, Charles E., Arnold, Pearce, and Berry. 3,151,-959.
Berry, Morris J., and L. Wells. Nursing bottle container and support. 3,163,194, 12–29–64, Cl. 150—52.
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Berry, Robert W., Jr., to Fansteel Metallurgical Corp. Saddle seat for milling cutters. 3,138,847, 6–30–64, Cl. 29—105.
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Berry, Virgil J., Jr., to Pan American Petroleum Corp. Method of forming underground combustion front. 3,126,956, 3–31–64, Cl. 166—11.
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Bert, Samuel. Snow cone machine. 3,145,878, 8–25–64, Cl. 222—146.
Bertele, Ludwig J. Wide angle objective. 3,154,628, 10–27–64, Cl. 88—57.
Bertell, Paul, J. B. Friedenberg, and A. V. Palermo, to Standard Mirror Co., Inc. Outboard rear vision mirror for trucks and the like. 3,132,201, 5–5–64, Cl. 88—98.
Bertels, Josef, to Wibau Westdeutsche Industrie- und Strassenbau-Maschinen-Gesellschaft m.b.H. Tiltable transport container for pourable bulk material. 3,124,265, 3–10–64, Cl. 220—1.5.
Bertels, Josef, to Wibau Westdeutsche Industrie- u Strassenbau-Maschinen-Gesellschaft m.b.H. Transport container for liquids. 3,133,677, 5–19–64, Cl. 222—185.
Berthelot, Arthur P., W. J. Clements, and J. P. Jason, to Clements Mfg. Co. Handle and skid means for a floor machine. 3,155,996, 11–10–64, Cl. 15—49.
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Berthmann, Adolf, and C. Franze, to Dynamit Nobel Aktiengesellschaft. Reversibly rendering non-explosive nitric acid esters. 3,140,211, 7–7–64, Cl. 149—101.
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Bertin, André, and C. Delacoste, to Delacoste & Cie. Apparatus for supplying rotary molds with fluid during rotation. 3,117,346, 1–14–64, Cl. 18—26.
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Bertin, Jean H., to Societe Bertin et Cie. Ground effect machine with curtain forming injector means. 3,130,804, 4–28–64, Cl. 180—7.
Bertin, Jean H., to Societe Bertin & Cie. Supporting device using a layer of fluid under pressure. 3,140,753, 7–14–64, Cl. 180—7.
Bertin, Jean H. and E. Dubois, to Societe Bertin & Cie, and Etablissement Public Dit: Aeroport de Paris. Directing nozzle for discharging gas along the surface of the ground. 3,118,604, 1–21–64, Cl. 239—14.
Bertin, Jean H., and B. J. M. Salmon, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Flameholder of the eliminable fluid-screen type. 3,136,124, 6–9–64, Cl. 60—39.72.
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Bertolini, William A., to Highway Trailer Industries, Inc. Bogie spring equalizing construction. 3,163,442, 12–29–64, Cl. 280—104.5.
Bertozzi, Marco J., Sr. Motorized pack carrier. 3,135,346, 6–2–64, Cl. 180—19.
Bertram, Benjamin Q., to The Sperry Gyroscope Co., Ltd. Automatic copying machines. 3,129,640, 4–21–64, Cl. 90—13.
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Bertram, Wallace H. Compact cot. 3,134,987, 6–2–64, Cl. 5—111.
Bertrand, Georges. Control system for electric sewing machines. 3,125,050, 3–17–64, Cl. 112—219.
Bertrand, Henri. Apparatus for opening the shells of oysters and like bivalves. 3,128,496, 4–14–64, Cl. 17—9.
Bertrand, Howard G. Protective enclosure for service station dispensers. 3,128,914, 4–14–64, Cl. 222—146.
Bertrand, Joseph V. Electronic chassis supporting means. 3,148,007, 9–8–64, Cl. 312—323.
Bertrand, Pierre L., and P. H. Acloque, to Compagnie de Saint-Gobain. Differential thermal treatment of glass objects. 3,149,945, 9–22–64, Cl. 65—23.
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Beschmann, Edwin T., to The Nivison-Weiskopf. Dispenser for roll of sheet material. 3,144,970, 8–18–64, Cl. 225—39.
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Besse, Carl H. Paraffin scraper and tool for applying. 3,156,286, 11–10–64, Cl. 153—32.
Besser, Eli D., to Marvell Industries. Muti-purpose cleaner-germicide-deodorizer composition. 3,118,842, 1–21–64, Cl. 252—106.
Besser, James H., and D. F. Isaacson. Tree shaker attachment for a tractor. 3,137,116, 6–16–64, Cl. 56—328.
Bessett, Clifford H., to Packaging Corp. of America. Package construction. 3,153,505, 10–20–64, Cl. 229—43.
Bessiere, Pierre E., to Societe Anonyme pour l'Exploitation des Procedes Chimiques et Physiques. Self regulating pumps in particular for the injection of fuel into internal combustion engines. 3,120,189, 2–4–64, Cl. 103—41.
Bessiere, Pierre E., to Societe Anonyme pour l'Exploitation des Procedes Chimiques et Physiques. Self-regulating reciprocating pumps. 3,122,099, 2–25–64, Cl. 103—41.
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Best, Charles W., and J. T. Napier, to J. H. Baxter & Co. Timber incising apparatus. 3,125,141 3–17–64, Cl. 144—2.
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Best, Edison F., to Libbey-Owens-Ford Glass Co. Surfacing plate glass. 3,158,971, 12–1–64, Cl. 51—283.
Best, Ethridge C., and M. R. Richmond, to Sander Associates, Inc. Frequency sensitive wave analyzer including frequency sensing phase shifting means. 3,135,917, 6–2–64, Cl. 324—82.
Best, Frank E., and W. J. Patterson, to Swift & Co. Poultry leg cutter. 3,137,892, 6–23–64, Cl. 17—11.
Best, Georg P., to Lever Brothers Co. Liquid bleaching and detergent composition. 3,130,164, 4–21–64, Cl. 252—99.
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Best, Thomas. Repair plug. 3,162,230, 12–22–64, Cl. 152—370.
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Bicking, Lewis J., Jr., to Merla Tool Corp. Gas lift valve. 3,143,128, 8–4–64, Cl. 137—155.

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Biel, John H., to Lakeside Laboratories, Inc. N-substituted piperazinoalkyl glycolates. 3,125,577, 3–17–64, Cl. 260—268.

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Biel, John H., to Lakeside Laboratories, Inc. Diuretic combinations containing a thiazide and a mercurial. 3,137,-625, 6–16–64, Cl. 167—65.

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Biel, John H., to Colgate Palmolive Co. Piperazinoalkyl esters of 9-hydroxyfluorene-9-carboxylic acid. 3,162,637, 12–22–64, Cl. 260—268.

Biel, John H., to Colgate Palmolive Co. 1-(5-glutamyl)-2-(phenyl)-lower alkyl hydrazines. 3,162,680, 12–22–64, Cl. 260—518.

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Biel, John H., and W. K. Hoya, to Colgate-Palmolive Co. Homopiperazinoalkyl esters. 3,141,015, 7–14–64, Cl. 260—239.

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Bienstock, Daniel, and J. H. Field, to United States of America, Interior. Process for removing sulfur dioxide from gases. 3,150,923, 9–29–64, Cl. 23—2.

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Biermann, Wendell J., to Beryloy Ltd. (no personal liability). Beryllium oxide extraction process. 3,159,453, 12–1–64, Cl. 23—18.

Biermann, William A., L. R. Germanotta, and E. V. Madritsch, to Controls Co. of America. Sequence control for electric circuits. 3,161,758. 12–15–64, Cl. 219—480.

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Bigelow, Herbert L.: *See*—
Muse, John F., and Bigelow. 3,131,764.

Bigelow, Herbert L., to Baker Oil Tools, Inc. Parallel tubing string apparatus. 3,136,569, 6–9–64, Cl. 285—137.

Bigelow, John E., to General Electric Co. Drift compensated D.C. integrator having separate selectively insertable feedback loops. 3,142,803, 7–28–64, Cl. 328—127.

Bigelow, John E., to General Electric Co. X-ray collimator comprising a plurality of spaced plastic lamina with X-ray absorbent material coated thereon. 3,143,652, 8–4–64, Cl. 250—105.
Bigelow, John E., to General Electric Co. Method for making a collimator for an X-ray beam. 3,143,738, 8–4–64, Cl. 29—155.5.
Bigelow, John E., to General Electric Co. Thermally excited X-ray spectometer. 3,163,754, 12–29–64, Cl. 250—51.5.
Bigelow-Sanford, Inc.: *See*—
Dahlberg, Harold S., and Quinn. 3,120,082.
Harrison, Wayne T., and Carrigan. 3,157,206.
Harrison, Wayne T., and Carrigan. 3,160,176.
Kinnear, Allan H. 3,119,727.
Mueller, Helmut C. 3,122,175.
Bigge, Henry W. Steering device for connected tractor and dolly vehicles. 3,156,487, 11–10–64, Cl. 280—426.
Biggers, Earl H., to Patentex, Inc. Method for simultaneously throwing and knitting of yarn. 3,148,520, 9–15–64, Cl. 66—125.
Biggi, Victor, and J. C. Simon, to Compagnie Generale de Telegraphie Sans Fil. Tropospheric radio communication system. 3,160,813, 12–8–64, Cl. 325—58.
Biggs, James W.: *See*—
Stiles, Claude J., and Biggs. 3,119,720.
Biggs, Orrick H., D. E. Spencer, and S. C. Peek, Jr., to Sylvania Electric Products Inc. Runway lighting system. 3,162,373, 12–22–64, Cl. 240—1.2.
Biggs, Percival R. Composition and method for preserving cut flowers. 3,122,432, 2–25–64, Cl. 71—2.4.
Biggs, William A., Jr.: *See*—
Baxley, William H., Biggs, and Cook. 3,138,580.
Biginelli, Oreste F. A. Multi-bank radial type machine. 3,158,035, 11–24–64, Cl. 74—49.
Bigliano, Robert P., to E. I. du Pont de Nemours and Co. Sphygmomanometer. 3,123,068, 3–3–64, Cl. 128—2.05.
Bigo, Ernest H. P., and P. Pleshko, to International Telephone and Telegraph Corp. Logic inverter circuits. 3,124,704, 3–10–64, Cl. 307—88.5.
Bigot, Johan A., T. A. J. Meyerink, and L. J. Revallier, to Stamicarbon N.V. Preparation of caprolactam. 3,119,814, 1–28–64, Cl. 260—239.3.
Bihaly, Lajos: *See*—
Lockwood, Arthur W., and Bihaly. 3,145,392.
Bihler, Frederick H., to The De Laval Separator Co. Control for automatic pipe line cleansing system. 3.119.400. 1–28–64, Cl. 134—57.
Bijl, Aart: *See*—
Ongkiehong, Leo, Bijl, and Schuringa. 3.129.062.
Bikales, Norbert M.: *See*—
Hauser, Martin, and Bikales. 3,155,701.
Bikerman, Jacob J., to Yardney International Corp. Electrode for electric batteries. 3,137,594, 6–16–64, Cl. 136—30.
Bilancia, Raymond A., to Coach and Car Equipment Corp. Vehicle seat support. 3,140,851, 7–14–64, Cl. 248—399.
Bilancia, Raymond A., to Coach & Car Equipment Corp. Ventilated vehicle seat. 3,144,270, 8–11–64, Cl. 297—180.
Biles, James R., D. C. Nicely, and G. W. F. Sellers, to Monsanto Co. Stabilized acrylic fabrics and method for treatment of acrylic fabrics. 3,152,919, 10–13–64, Cl. 117—138.8.
Bilichniansky, Theodore, to Technicon Instruments Corp. Compressible tube type fluid pump. 3,116,697, 1–7–64, Cl. 103—149.
Bilisoly, Julius P.: *See*—
Stringer, Richard F., and Bilisoly. 3,121,695.
Bill, Herbert E. Speaker enclosure. 3,135,348, 6–2–64, Cl. 181—31.
Bill, John C., and R. W. Amidon, to United States Rubber Co. Flame resistant copolymers of an ester of a 2,3-dihaloalkanol and an unsaturated polycarboxylic acid. 3,151,183, 9–29–64, Cl. 260—45.4.
Billard, Paul L., and P. Maguer, to North American Philips Co., Inc. Gamma correction method for use in television and apparatus for carrying out these methods. 3,131,254, 4–28–64, Cl. 178—5.4.
Bille, Mario, and S. Turato. Device for glueing the upper to soles of shoes. 3,160,899, 12–15–64, Cl. 12—1.
Bille, Steven T., and K. Heinz, to The Curtis Publishing Co. Sampler clock with electric movement. 3,132,469, 5–12–64, Cl. 58—53.
Billen, Ernest E. G., and G. L. H. Mattens. Derivatives of substituted coumarin. 3,141,894, 7–21–64, Cl. 260—343.2.
Billen, Peter: *See*—
Elger, Ronald J., Billen, Vom Dorp, and Buse. 3,156,359.
Biller, Efim. Process for carrying out chemical reactions in a layer of sprayed whirling liquid. 3,131,212, 4–28–64, Cl. 260—468.
Billet, Edward H., to Varityper Corp. Method of making up printed matter. 3,137,573, 6–16–64, Cl. 96—27.
Billeter, Henry R., to Sloan Valve Co. Remotely actuated flush valve system. 3,117,588, 1–14–64, Cl. 137—359.
Billeter, Henry R., to Sloan Valve Co. Valve actuation mechanisms. 3,117,589, 1–14–64, Cl. 137—360.
Billeter, Henry R., to Sloan Valve Co. Remote controlled hydraulic valve actuating means. 3,117,761, 1–14–64, Cl. 251—57.
Billeter, Henry R., to Sloan Valve Co. Automatically self-cleaning shower heads. 3,130,911, 4–28–64, Cl. 239—109.
Billeter, Henry R., R. E. Campbell, and H. I. Tramblie, to Sloan Valve Co. Brake cylinder release valves. 3,145,064, 8–18–64, Cl. 303—69.
Billette, Richard J., and S. R. Morrison, to Honeywell Inc. Method of making a semiconductor device. 3,157,937, 11–24–64, Cl. 29—25.3
Billey, Leino H., to Donaldson Co., Inc. Means to aspirate dust from an air cleaner. 3,137,553, 6–16–64, Cl. 55—431.
Billi, Nadina. Automatic teller safety shield and capture cage. 3,148,640, 9–15–64, Cl. 109—5.
Billie-Knudsen, Klaus, to Danfoss ved ing. M. Clausen. Pivoted snap switch having manual actuating lever. 3,117,198, 1–7–64, Cl. 200—67.
Billie-Knudsen, Klaus, to Danfoss ved ing. M. Clausen. Thermostat with adjustable temperature range and combined semi-automatic operator. 3,160,725, 12–8–64, Cl. 200—140.
Billig, Wayne E. Boat with hydrofoil and wings. 3,157,146, 11–17–64, Cl. 114—66.5.
Billings, Orman B., and M. I. Hampton, to Johnson & Johnson. Bandage. 3,135,258, 6–2–64, Cl. 128—91.
Billings, Roy O. Excavators. 3,143,228, 8–4–64, Cl. 214—147.
Billings, Roy O. Excavators. 3,143,229, 8–4–64, Cl. 214—147.
Billingsley, John G. S., to E. I. du Pont de Nemours and Co. Apparatus for slitting film and removing the strips from the cutting zone under unequal tension. 3,144,216, 8–11–64, Cl. 242—56.4.
Billingsley, John G. S., to E. I. du Pont de Nemours and Co. Method and apparatus for winding. 3,157,371, 11–17–64, Cl. 242—56.2.
Billingsley, John G. S., L. R. Mummery, and S. A. Rogers, to E. I. du Pont de Nemours and Co. Cutting apparatus with adjustable blade means. 3,119,294, 1–28–64, Cl. 83—174.
Billion & Cie: *See*—
Billion, Jacques. 3,153,892.
Billion, Jacques, to Billion & Cie. Twisting machines executing a false twist. 3,153,892, 10–27–64, Cl. 57—34.
Billis, Roman F. Manipulatable teaching aid. 3,117,384, 1–14–64, Cl. 35—73.
Billman, John H., N. S. Janetos, and R. Chernin, to Indiana University Foundation. Copper complexes of N-(2-aminohydrocarbyl) sulfonamides. 3,133,945, 5–19–64, Cl. 260—438.
Billman, Roger O.: *See*—
Lindquist, Robert H., and Billman. 3,140,925.
Bills, Charles T.: *See*—
Hyman, Joseph B., Kordzinski, and Bills. 3,131,157.
Bills, Marius W. Lint pick-up device. 3,156,938, 11–17–64, Cl. 15—104.
Billy, Jean-Marc: *See*—
McKay, Arthur F., and Billy. 3,142,677.
Bilocq, Georges A., to Forano Ltd. Centering mechanism for paper rolls and the like. 3,129,823, 4–21–64, Cl. 214—1.
Bilodeau, Wilfred J., 25% to E. P. Schellin. Method of making or repairing a bowling pin. 3,135,639, 6–2–64, Cl. 156—98.
Bilsback, Malvin S.: *See*—
Houldin, Russell J., and Bilsback. 3,154,730.
Bilsky, Earl, to Celanese Corp. of America. Method and apparatus for producing a novelty bulked yarn. 3,118,269, 1–21–64, Cl. 57—34.
Bilsky, Earl, and L. R. Blake, to Celanese Corp. of America. Loopy, gas jet bulked yarn and method. 3,150,481, 9–29–64, Cl. 57—140.
Bilton, Percy Ltd.: *See*—
Woolacott, Reginald J. 3,122,637.
Bily, Clément, and J. Lescarboura, to La Telemacanique Electrique. Re-settable switch device. 3,144,530, 8–11–64, Cl. 200—76.
Bilyeu, Archie E., to Aladdin Mfg. Co. Device for propagation of scent for attracting wild game. 3,119,650, 1–28–64, Cl. 21—117.
Bimber, Russell M., to Diamond Alkali Co. Preparation of aromatic acid halides. 3,140,246, 7–7–64, Cl. 204—158.
Bimber, Russell M., H. Bluestone, and I. Rosen, to Diamond Alkali Co. Methanothianaphthene compounds. 3,130,199, 4–21–64, Cl. 260—330.5.
Bimber, Russell M., and H. Bluestone, to Diamond Alkali Co. Halo-thianaphthene-1,1-dioxides. 3,136,782, 6–9–64, Cl. 260—330.5.
Bindel, Paul: *See*—
Schieber, Hans, and Bindel. 3,133,582.
Bindematic Corp.: *See*—
Dennis, Ralph E. 3,162,198.
Binder, George G., Jr.: *See*—
Weiss, Malcolm A., Cohen, and Binder. 3,138,203.
Binder, George G., Jr., and C. D. Russell, to Jersey Production Research Co. Secondary oil recovery process. 3,149,669, 9–22–64, Cl. 166—9.
Binder, Hans, and R. Heinle, to Rottweiler Kunstseidefabrik AG. Method for the manufacture of nitrogenous organic phosphorus compounds. 3,127,445, 3–31–64, Cl. 260—551.
Binder, Hans, O. Koch, and J. Altpeter, to Rutgerswerke-Aktiengesellschaft. Process for the dehydration of hydroxyethyl-substituted pyridines, quinolines, and isoquinolines. 3,149,116, 9–15–64, Cl. 260—283.
Binder, Johann, and R. Duren, to Volkswagenwerk Aktiengesellschaft. Plug connector. 3,139,318, 6–30–64, Cl. 339—258.
Binder Magnete K. G.: *See*—
Binder, Wilhelm, and Hauer. 3,158,242.

Binder, Paul J., to General Electric Co. Electric heater and support assembly. 3,154,669, 10–27–64, Cl. 219—404.
Binder, Rolf, to Rieter Machine Works Ltd. Bale rasp. 3,135,022, 6–2–64, Cl. 19—80.
Binder, Wilhelm, and R. Hauer, to Binder Magnete K. G. Miniature clutch. 3,158,242, 11–24–64, Cl. 192—84.
Binding, Kenneth W., to Market Forge Co. Vehicle-carrying rack. 3,132,780, 5–12–64, Cl. 224—42.1.
Binding, Kenneth W., to Market Forge Co. Car top luggage carrier. 3,153,501, 10–20–64, Cl. 224—42.1.
Bindler, Ben, to J. Freezer & Son, Inc. Sport shirts. 3,137,860, 6–23–64, Cl. 2—115.
Bindler, Jakob, E. Model, and R. Zinkernagel, to J. R. Geigy, A.-G. 2-imino-1,3-di-N-heterocycles. 3,121,645, 2–18–64, Cl. 117—138.5.
Binford, Jack C., to FMC Corp. Spinning funnel. 3,143,845, 8–11–64, Cl. 57—76.
Binford, William W.: *See*—
Kamlet, Jonas, and Binford. 3,140,956.
Bing, Herbert A., and M. S. Dietz, to Polaroid Corp. Photographic apparatus. 3,125,937, 3–24–64, Cl. 95—10.
Bingel, Robert I., to Mead Specialties Co., Inc. Muffler and method. 3,137,365, 6–16–64, Cl. 181—71.
Bingham, D. W., & Co. Proprietary Ltd.: *See*—
Bingham, David W. 3,127,071.
Bingham, David W. 3,139,914.
Bingham, David W., to D. W. Bingham & Co. Proprietary Ltd. Can filling apparatus. 3,127,071, 3–31–64, Cl. 222—380.
Bingham, David W., to D. W. Bingham and Co. Proprietary Ltd. Syruping apparatus for use in connection with the canning of fruit, vegetables and other food products. 3,139,914, 7–7–64, Cl. 141—45.
Bingham, George H., Jr., to Cambridge Rubber Co. Labeled shoe sole and method of making the same. 3,137,749, 6–16–64, Cl. 264—244.
Bingham, George H., Jr., to Cambridge Rubber Co. Hollow display form. 3,137,875, 6–23–64, Cl. 12—128.
Bingham, George H., Jr., to Cambridge Rubber Co. Outer sole for footwear. 3,138,881, 6–30–64, Cl. 36—30.
Bingham, George H., Jr., to Cambridge Rubber Co. Shoe having stitched-reversed insole. 3,147,558, 9–8–64, Cl. 36—14.
Bingham, George H., Jr., to Cambridge Rubber Co. Machine-made platform-style shoe. 3,147,559, 9–8–64, Cl. 36—14.
Bingham, George H., Jr., to Cambridge Rubber Co. Method of making a boot last. 3,157,899, 11–24–64, Cl. 12—146.
Bingham, George H., Jr., to Cambridge Rubber Co. Method of making a hollow mold. 3,158,558, 11–24–64, Cl. 204—8.
Bingham, Richard. Humidor. 3,135,565, 6–2–64, Cl. 312—31.
Bingham, Robert E., to General Tire & Rubber Co. Continuous polymerization process for vinyl monomers. 3,125,553, 3–17–64, Cl. 260—87.1.
Bingham, Sidney H. Hybrid rapid transit truck. 3,120,820, 2–11–64, Cl. 105—215.
Bingham, Sidney H. Transportation truck and vehicle. 3,120,821, 2–11–64, Cl. 105—215.
Bingham, Sidney H. Adjustable beamway. 3,148,632, 9–15–64, Cl. 104—120.
Bingman, Richard T.: *See*—
Young, Ralph C., and Bingman. 3,123,169.
Binkert, Carl F., and L. H. Laine, to Libbey-Owens-Ford Glass Co. Method of bending glass sheets or plates. 3,160,491, 12–8–64, Cl. 65—107.
Binkis, Alexander M., to Zenith Radio Corp. Automatic frequency control for a transistor television receiver. 3,136,955, 6–9–64, Cl. 331—8.
Binkowski, George, to Farrel-Birmingham Co., Inc. Doctor blade for calender roll. 3,122,090, 2–25–64, Cl. 100—158.
Binks Mfg. Co.: *See*—
Jones, Walter M. 3,155,320.
Binner, Carl J., to Morgan Co., Inc. Door. 3,121,263, 2–18–64, Cl. 20—35.
Binner, Christian R., and C. W. Hammond, to United States of America, Atomic Energy Commission. Heat exchanger. 3,139,927, 7–7–64, Cl. 165—159.
Binning, Robert C.: *See*—
Martin, Eugene C., Binning, Adams, and Lee. 3,140,256.
Sharp, Dexter B., and Binning. 3,153,058.
Binnings, Clem B., to Whitney National Bank of New Orleans. Expandable mandrel. 3,145,541, 8–25–64, Cl. 61—53.72.
Binns, Jack N.: *See*—
Engelmann, Richard H. 3,137,163.
Binns, Jack N. Contour roll-turning lathe drive mechanism and gear shifting assembly. 3,127,801, 4–7–64, Cl. 82—29.
Binns, Jack N. Coupling box assembly. 3,140,628, 7–14–64, Cl. 82—40.
Binns, Jack N. Hydraulic control system for contour roll-turning lathe. 3,150,549, 9–29–64, Cl. 82—14.
Binsfeld, Arthur J. Pneumatic filler-sealing devices. 3,128,689, 4–14–64, Cl. 98—94.
Bio-Science Laboratories: *See*—
Davis, John E. 3,159,384.
Birch Bros., Inc.: *See*—
Birch, Clifford W. 3,157,935.
Birch, Clifford W., to Birch Bros., Inc. Cloth expanding roll mechanism. 3,157,935, 11–24–64, Cl. 26—63.
Birch, Frederick, to Raphaels Ltd. Grinding machines. 3,153,883, 10–27–64, Cl. 51—160.
Birch, Herbert M., and D. H. Gattone. Self-contained push button applicator. Re. 25,585, 5–26–64, Cl. 132—116.
Birch-Iensen, Ake, and H. Ekman, deceased (by G. Ekman), to Svenska Sockerfabriks Aktiebolaget. Dielectrically heated drying apparatus through which the articles to be dried are continuously advanced. 3,161,480, 12–15–64, Cl. 34—1.
Birch-Iensen, Hans E. Apparatuses for recording poultry egg production 3,123,044. 3–3–64, Cl. 119—1.
Birch-Iensen, Hans E. Holder for egg production recording apparatuses. 3,162,175, 12–22–64, Cl. 119—1.
Birch, John W.: *See*—
Rauen, Math W., Teed, and Birch. 3,147,791.
Birch, Raymond E.: *See*—
Davies, Ben, and Birch. 3,138,470.
McCreight, Donald O., and Birch. Re. 25,572.
Wishon, Berhl E., Birch, and Stock. 3,146,115.
Birch, Robert R., and T. J. Zylbert, to The Singer Co. Drive means for sewing machines. 3,157,142, 11–17–64, Cl. 112—220.
Birchall, John M.: *See*—
Haszeldine, Robert N., Parkinson, and Birchall. 3,156,715.
Birchall, Thomas D., to G. W. Hume Co. Can-sorting device. 3,128,879, 4–14–64, Cl. 209—111.5.
Birchall, Thomas F.: *See*—
Lewis, Henry W., and Birchall. 3,157,333.
Birchenhough, Herbert: *See*—
Coates, Arthur, Russell, and Birchenhough. 3,146,977.
Birchmier, Kenneth E.: *See*—
Birchmier, Lloyd M. and K. E. 3,156,947.
Birchmier, Lloyd M. and K. E., to L. B. Products Co. Poultry shackles. 3,156,947, 11–17–64, Cl. 17—44.1.
Bird & Son, Inc.: *See*—
Ali-Oglu, Nesi. 3,134,308.
Bird Electronic Corp.: *See*—
Bird, James R., Frederico, and Heller. 3,158,823.
Bird, Forrest M., and H. L. Pohndorf. Device for aiding in the administration of gaseous anesthetic agents. 3,156,238, 11–10–64, Cl. 128—29.
Bird, George L., and R. A. Brown, to Hickok Mfg. Co., Inc. Safety seat harness for vehicle. 3,125,375, 3–17–64, Cl. 297—389.
Bird, George R., to Polaroid Corp. Gas microcell in the form of a light pipe for use with an infrared spectrometer. 3,120,608, 2–4–64, Cl. 250—43.5.
Bird, Jack R., and M. A. Wheeler, to Rolls-Royce Ltd. Method of heat treating nickel base alloys. 3,146,136, 8–25–64, Cl. 148—162.
Bird, James R., B. D. Frederico, and H. H. Heller, to Bird Electronic Corp. Coaxial line coupling and partition device. 3,158,823, 11–24–64, Cl. 333—22.
Bird, Joseph L., and L. R. Oliver. Grinding or abrading tool. 3,145,511, 8–25–64, Cl. 51—206.
Bird, Lester F., to Engelhard Hanovia, Inc. Stabilization circuit for arc lamps. 3,143,701, 8–4–64, Cl. 323—89.
Bird Machine Co.: *See*—
Cannon, Madison M., Dick, and Salomon. 3,149,067.
Carvill, Richard E. 3,122,767.
Garner, Edward V. 3,144,784.
Stock, Irwin R. 3,139,404.
Bird, Martin J., to The Faulhaber Co. Cycle saddle. 3,163,465, 12–29–64, Cl. 297—209.
Bird Provision Co.: *See*—
Vogel, Virgil W. and P. W. 3,124,462.
Bird, Thomas C. Machine for forming a panel consisting of a compressed multiple piece core having flexible sheet facings. 3,118,802, 1–21–64, Cl. 156—358.
Bird, Walter W., to Birdair Structures, Inc. Sectionalized air supported structures. 3,116,746, 1–7–64, Cl. 135—1.
Bird, Walter W., to United States of America, Air Force. Inflatable tracking antenna. 3,147,478, 9–1–64, Cl. 343—765.
Bird, Walter W., P. A. Strobel, P. I. Rongved, and D. P. Zamore. Building construction. 3,139,464, 6–30–64, Cl. 264—32.
Bird, Walter W., G. F. Reitmeier, and A. T. Baschmann, to United States of America, Army. Quickly strikable air supported building structure. 3,150,670, 9–29–64, Cl. 135—1.
Bird, William G., to Savage & Parsons Ltd. Apparatus for the measurement and integration of fluid-velocities. 3,116,639, 1–7–64, Cl. 73—194.
Birdair Structures, Inc.: *See*—
Bird, Walter W. 3,116,746.
Birdsall, Clair M.: *See*—
Dwyer, Robert F., and Birdsall. 3,132,000.
Birdsboro Corp.: *See*—
Peterson, Edward T. 3,128,651.
Wetzel, Joseph W. 3,146,877.
Birenbaum, Leo, to Polytechnic Institute of Brooklyn. H-guide attenuator. 3,155,929, 11–3–64, Cl. 333—81.
Birfield Engineering Ltd.: *See*—
Callaghan, Albert E. 3,127,638.
Cull, William. 3,151,473.
Freeman, Leslie G. 3 123,990.
Green, Thomas F. 3,145,464.
Birge Co., Inc.: *See*—
Gold, Samuel, Marotta, and Kuclar. 3,122,446.
Birge, William T., to Kelsey-Hayes Co. Shoe brake construction with low-friction bearing means. 3,126,984, 3–31–64, Cl. 188—78.
Birge, William T., to Kelsey-Hayes Co. Electric brake actuating mechanism. 3,134,463, 5–26–64, Cl. 188—138.

Biringer, Paul P., and G. R. Slemon. Infinite speed ratio stationary control system for induction type motors. 3,127,547, 3–31–64, Cl. 318—229.

Birkbeck, Guy, to North American Philips Co., Inc. Apparatus for automatic mounting of electronic components. 3,149,401, 9–22–64, Cl. 29—33.

Birkemeier, Henry P., to International Telephone and Telegraph Corp. Snow melting control apparatus. 3,157,358, 11–17–64, Cl. 237—1.

Birkenbach, Eugen J.: *See*—
Scarnato, Thomas J., and Birkenbach. 3,152,432.

Birkenbach, Eugen J., and D. M. O'Neill, to International Harvester Co. Open end harrow and framework therefor. 3,128,834, 4–14–64, Cl. 172—635.

Birkenbach, Eugen J., and R. R. Motycka, to International Harvester Co. Harrow with tooth set angling device. 3,139,942, 7–7–64, Cl. 172—390.

Birkenbeil, Hans J., to International Business Machines Corp. Method for the production of thin magnetic layers with reproducible and stable properties. 3,161,946, 12–22–64, Cl. 29—155.5.

Birkenmeyer, Robert D.: *See*—
Kagan, Fred, and Birkenmeyer. 3,134,800.

Birkenmeyer, Robert D., F. Kagan, B. J. Magerlein, and W. P. Schneider, to The Upjohn Co. 16*a*-chloro-1,4-pregnadienes. 3,137,712, 6–16–64, Cl. 260—397.45.

Birkholz, Ulrich, to Simens-Schucktwerke Aktiengesellschaft. Thermocouple, particularly for electrothermic cooling, and method of producing it. 3,137,593, 6–16–64, Cl. 136—4.

Birkigt, Louis, to Brevets Aero-Mechaniques S.A. Gun carriages especially for anti-aircraft guns. 3,130,639, 4–28–64, Cl. 89—40.

Birkle, Paul G. Drapery hanger. 3,137,027, 6–16–64, Cl. 16—87.2.

Birlec-Efco (Melting) Ltd.: *See*—
Leigh, Francis S. J., and May. 3,125,622.

Birmingham, Douglas W., to United-Carr Inc. Self locking stay mechanisms. 3,141,694, 7–21–64, Cl. 292—263.

Birmingham, Henry P. Mobile unit control system. 3,125,976, 3–24–64, Cl. 114—23.

Birmingham Sound Reproducers Ltd.: *See*—
Guest, Lawrence V. 3,137,772.

Birnbaum, Leo: *See*—
Dragunas, Alfred R., and Birnbaum. 3,116,911.

Birney, Robert H., to Ford Motor Co. Torsion bar suspension for motor vehicles. 3,150,869, 9–29–64, Cl. 267—57.

Birr, Richard T., and E. B. Bahnsen, to Steiner American Corp. Cabinet for towel dispensers. 3,147.051, 9–1–64, Cl. 312—37.

Birten, Vera M., B. M. Brill, and H. Terry, to Shawinigan Resins Corp. Process of preparing dry powdered vinyl ester polymer compositions and resulting product. 3,126,355, 3–24–64, Cl. 260—8.

Birum, Gail H.: *See*—
Anderson, Richard M., and Birum. 3,157,613.
Cornell, David, and Birum. 3,155,597.
Cornell, David, and Birum. 3,155,598.
Heininger, Samuel A., and Birum. 3,140,307.
Heininger, Samuel A., and Birum. 3.159,532.
Heininger, Samuel A., and Birum. 3,159,666.
Stephens, John A., and Birum. 3,140,226.

Birum, Gail H., J. L. Schwendeman, and R. M. Anderson, to Monsanto Co. Halogenated phosphorus esters, and process for preparing them. 3,132,169, 5–5–64, Cl. 260—461.

Birum, Gail H., and G. A. Richardson, to Monsanto Co. Process for making 1-cyclohexenyl phosphonic acid diesters and an intermediate compound for use therein. 3,160,650, 12–8–64, Cl. 260—461.

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Hammitt, Andrew B., and Birum. 3,127,639.
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Bisbee, Gail A., and M. A. Sanborn, to International Business Machines Corp. Container for apertured articles. 3,149,-721, 9–22–64, Cl. 206—72.

Bisbing, Robert H.: *See*—
Barry, John K., and Bisbing. 3,123,880.

Bisbis, James J., to United States Steel Corp. Device for testing a pinhole detector. 3,117,479, 1–14–64, Cl. 83—308.

Biscardi, Charles T.: *See*—
Showers, Lewis M., Jr., and Biscardi. 3,156,326.

Bischof, Werner, T. L. Doktor, and Z. Legedza, to Bell Telephone Laboratories, Inc. Multifrequency receiver. 3,140,-357, 7–7–64, Cl. 179—84.

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Wuhrer, Josef, and Bischoff. 3,133.822.

Bischoff, Friedrich, to Siemens & Halske Aktiengesellschaft. Method for producing pure silicon. 3,146,123, 8–25–64, Cl. 117—106.

Bischoff, Leo E., and A. Schollnick, to General Motors Corp. Windshield washer pump assembly. 3,147,632, 9–8–64, Cl. 74—128.

Bischoff, Thomas J., and R. A. Hartwig. Suspension mechanism. 3,136,565, 6–9–64, Cl. 280—96.2.

Bise, Henri, and J.-J. Weber, to Fermenta S.A. Machine for clamping bundles of tobacco leaves in the peripheral gaps of a supporting member. 3,151,748, 10–6–64, Cl. 214—5.5.

Biser, David, to United States of America, Navy. Decade counter with analog display for use with airborne vehicle navigation means. 3,141,960, 7–21–64, Cl. 235—92.

Bishay, Adli M., to United States of America, Atomic Energy Commission. Radiation detecting with shutter glass. 3,134,019, 5–19–64, Cl. 250—83.

Bishay, Adli M., to United States of America, Atomic Energy Commission. Glass of high ultraviolet transmittance, method, and articles manufactured therefrom. 3,150,281, 9–22–64, Cl. 313—221.

Bishop, Arthur E. Power steering system. 3,138,069, 6–23–64, Cl. 91—375.

Bishop and Babcock Corp., The: *See*—
Adams, James E. 3,136,206.
Adams, James E. 3,157,918.
Adams, James E. 3,163,391.
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Bishop, David A., to International Business Machines Corp. Feedback amplifier employing tunnel diode. 3,127,526, 3–31–64, Cl. 307—88.5.

Bishop, Emerson C., and A. F. Kipper, to Devoe & Raynolds Co., Inc. Measuring colorant dispenser. 3,118,568, 1–21–64, Cl. 222—43.

Bishop, Eugene A., Jr.: *See*—
Ciabattari, Emil J., and Bishop. 3,118,391.

Bishop, Harold F., and M. Bock II, to Exomet Inc. Welding apparatus and process. 3,161,928, 12–22–64, Cl. 22—116.

Bishop, Harold F.: *See*—
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Bishop, Harold F., D. E. Wiley, and M. Bock II, to Exomet Inc. Moldable exothermic composition. 3,162,558, 12–22–64, Cl. 149—2.

Bishop, Harold P. Vacuum attachment for dental aspirator unit. 3,138,873, 6–30–64, Cl. 32—33.

Bishop, Harold P. Tool actuated quick acting slide valve. 3,146,483, 9–1–64, Cl. 15—314.

Bishop, Harold R., to Hydrocarbon Research, Inc. Refrigeration-heating circuit. 3,161,232, 12–15–64, Cl. 165—62.

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Bishop, John B., G. D. Johnson, F. C. Ong, and H. A. Reise, to Bell Telephone Laboratories, Inc. Digital target information transmission system with parallax correction. 3,135,862, 6–2–64, Cl. 235—176.

Bishop, Lewis H. Machine for perforating, scoring and slicing with feed means. 3,122,040, 2–25–64, Cl. 83—94.

Bishop, Robert H. Multiple louver damper. 3,123,098, 3–3–64, Cl. 137—601.

Biskis, Kestutis, to International Harvester Co. Hitch linkage control mechanism. 3,123,152, 3–3–64, Cl. 172—239.

Biskup, John, to Congoleum-Nairn Inc. Process for producing decorative surface covering. 3,121,642, 2–18–64, Cl. 117—15.

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Stephenson, Carl G., Crocker, and Bismeyer. 3,159,307.

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Bissell, Gerald. Fishing line device. 3,160,979, 12–15–64, Cl. 43—44.85.

Bissell, James J. Retractable safety belts. 3,125,374, 3–17–64, Cl. 297—388.

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Bither, Tom A., Jr., to E. I. du Pont de Nemours and Co. Magnetic compositions containing iron, rhodium, and selected elements from groups II–A, III–A, IV–A, V–A and VI–A. 3,144,324, 8–11–64, Cl. 75—122.

Bither, Tom A., Jr., to E. I. du Pont de Nemours and Co. Ferromagnetic Mn-Ga alloy and method of production. 3,147.112, 9–1–64, Cl. 75—134.

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Bittle, Dewey D. Adjustable engine mount. 3,127,139, 3–31–64, Cl. 248—23.

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Nye, Maurice A., and Bittman. 3,154,443.

Bittmann, Eric E., to Burroughs Corp. Magnetic film nondestructive read-out. 3,154,766, 10–27–64, Cl. 340—174.

Bittner, Donald L. Calcium determination method. 3,121,-613, 2–18–64, Cl. 23—230.

Bittner, Donald L. Titrating and mixing apparatus. 3,154,-294, 10–27–64, Cl. 259—12.

Bittner, Ernst, to The Scholl Mfg. Co., Inc. Insoles for footwear. 3,143,812, 8–11–64, Cl. 36—44.

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Bitzer, Martin, and R. A. Deibel, to Trico Products Corp. Fluid pressure accessory system. 3,151,460, 10–6–64, Cl. 60—60.
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Bivins, Henry H. Vegetable produce cooler. 3,149,477, 9–22–64, Cl. 62—268.
Bixby, Leo A., to Rockwell-Standard Corp. Drive axles. 3,150,532, 9–29–64, Cl. 74—391.
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Rose, Colin G. 3,134,733.
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Bixler, Kenneth D., to Diamond National Corp. Tightly sealed carton blank. 3,163,347, 12–29–64, Cl. 229—39.
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Bjork, Albin W. Collapsible bolt having spring actuated expanding plunger. 3,159,075, 12–1–64, Cl. 85—87.
Bjork, Carl K., to The Dow Chemical Co. Explosives and method of blasting. 3,139,029, 6–30–64, Cl. 102—23.
Bjorklund, Elmer G., to Clark Equipment Co. Saddle truck with a guided lifting frame for handling containers. 3,146,903, 9–1–64, Cl. 214—394.
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Eriksson, Rolf G. 3,118,388.
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Buetow, Ralph W., and Cox. 3,160,551.
Bjorksten Research Laboratories, Inc.: *See*—
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Holinbeck, Dale G. 3,148,619.
Bjorn, Acton, and S. Bernadotte, to Irma Fabrikerne A/S. Building block having flexible ribs to engage a similar block. 3,148,477, 9–15–64, Cl. 46—25.
Bjorn, Thomas E., to Stewart-Warner Corp. Vibration detection apparatus. 3,144,774, 8–18–64, Cl. 73—466.
Bjorn, Thomas E., and S. H. Hollander, to Stewart-Warner Corp. Tool for wheel weights. 3,152,391, 10–13–64, Cl. 29—275.
Blabaum, Robert L., J. J. De Palma, and L. V. Grandchamp, to Honeywell Inc. Method of making electrical collector means. 3,151,384, 10–6–64, Cl. 29—155.5.
Black, Arthur. Device for preventing billowing and creeping of a bowling pin cleaning cloth. 3,163,416, 12–29–64, Cl. 273—54.
Black Clawson Co., The: *See*—
Baxter, Joseph, Jr. 3,162,385.
Bland, Percy N. 3,154,098.
Cavallero, Louis T., McKellar, and Welker. 3,154,303.
Coghill, James T. 3,131,092.
Corbin, Wesley S. 3,140,975.
Gremler, Enrique. 3,157,565.
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Black and Decker Mfg. Co., The: *See*—
Bennett, John L., and Stanley. 3,141,359.
Bitter, Kenneth D. 3,119,600.
Boehm, Arthur S., Riley, and Short. 3,144,912.
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Enders, Sherwood G. 3,119,460.
Enders, Sherwood G. 3,119,461.
Enders, Sherwood G. 3,146,856.
Enders, Sherwood G. 3,162,267.
Koons, Theodore R., and Pittinger. 3,162,067.
McCarty, George W. 3,162,255.
McCarty, George W., Boehm, and Riley. 3,131,947.
McCarty, George W., Sheps, and Bowen. 3,144,735.
Owings, Raymond D., and Alsruhe. 3,131,462.
Quick, Adam J., and Porter. 3,127,795.
Riley, Robert H., Jr., and Beam. 3,161,954.
Riley, Robert H., Jr., and Elligson. 3,133,450.
Short, Harold O. 3,119,274.
Short, Harold O. 3,162,268.
Black, Douglas E. Apparatus for patching plastic pipe. 3,117,904, 1–14–64, Cl. 156—475.
Black, Douglas E. Pipe squeezing apparatus for controlling flow through plastic pipe. 3,156,444, 11–10–64, Cl. 251—7.
Black, Harold. Bore hole inclination recorder. 3,124,882, 3–17–64, Cl. 33—205.5.
Black, Harold. Flexible joint for drill string. 3,135,103, 6–2–64, Cl. 64—11.
Black, Igor A., and A. A. Fowle, to Arthur D. Little, Inc. Insulating assembly. 3,152,033, 10–6–64, Cl. 161—50.
Black, James A., and T. J. Rosema, to General Research, Inc. Screen stencilling machine. 3,120,180, 2–4–64, Cl. 101—124.
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Black, James F., to Esso Research and Engineering Co. Method of removing radioactive products from an organic moderator-coolant used in a nuclear reactor. 3,161,599, 12–15–64, Cl. 252—301.1.
Black, James F., W. J. Sweeney, and F. T. Barr, to Esso Research and Engineering Co. Method of operating nuclear power plants. 3,162,580, 12–22–64, Cl. 176—39.
Black, James G., Jr., and C. C. Rayburn, to Illinois Tool Works Inc. Apparatus for manufacture of capacitors. 3,117,364, 1–14–64, Cl. 29—25.42.
Black, James J., to Pullman Inc. Self-sustaining transportation tank. 3,131,949, 5–5–64, Cl. 280—5.
Black, James J., to Pullman Inc. Interconnecting unit for tandem hauling of semi-trailers. 3,151,880, 10–6–64, Cl. 280—408.
Black, John E., to Electric Eye Equipment Co. Printing press drive control system. 3,132,295, 5–5–64, Cl. 318—163.
Black, John M., J. Warburton, and S. R. Stiles, to Pullman Inc. Hydrocarbon alkylation process. 3,160,673, 12–8–64, Cl. 260—683.59.
Black, John O. Iceboat conversion kit. 3,139,057, 6–30–64, Cl. 114—43.
Black, John O. Convertible aircraft structure. 3,155,343, 11–3–64, Cl. 244—17.21.
Black, John R., to Black Tool, Inc. Epicyclic speed changing device and gear form therefor. 3,160,032, 12–8–64, Cl. 74—804.
Black, John W., to Pemco Wheel Co. Swival mechanism for a caster. 3,142,085, 7–28–64, Cl. 16—21.
Black, Marion B.: *See*—
Roters, Herbert C., and Black. 3,131,323.
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Black, Owen S. Selectron radio control unit. 3,153,181, 10–13–64, Cl. 318—16.
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Lau, Erwin M. 3,133,608.
Lau, Erwin M. 3,133,609.
Black, Robert E., and F. L. Green, to General Motors Corp. Radiation source and method for making same. 3,161,504, 12–15–64, Cl. 75—206.
Black, Robert L., Jr., to Parks-Cramer Co. Traveling overhead suction cleaner. 3,138,818, 6–30–64, Cl. 15—312.
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Black Tool, Inc.: *See*—
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Black, Warren R., to American Seating Co. Manual control for a motorized hospital bed. 3,137,773, 6–16–64, Cl. 200—5.
Black, Warren R., I. C. Folger, and R. L. Knapp, to American Seating Co. Hospital bed having a removable side guard structure. 3,125,769, 3–24–64, Cl. 5—331.
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Black, William B., and W. L., to Monsanto Co. Cyclic polymers from trimethylene diisocyanates. 3,163,624, 12–29–64, Cl. 260—77.5.
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Winfrey, Vernon L., and Black. 3,133,836.
Black, William T.: *See*—
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Blackaby, Benjamin E., to The De Havilland Aircraft Co. Ltd. Gas turbine cruising and starting fuel control system. 3,151,450, 10–6–64, Cl. 60—39.14.

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Blackburn, Charles M., and J. Dassoulas, to United States of America, Navy. Fuel pressurizations system. 3,154,-093, 10–27–64, Cl. 137—255.

Blackburn, Felix: *See*—
Funke, Lawrence J., and Blackburn. 3,121,385.

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P'Simer, George, and Blackburn. 3,144,273.

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Toedtman, John A. 3,156,764.
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Blackburn, John F., to United States of America, Navy. Angle converter. 3,146,443, 8–25–64, Cl. 343—7.

Blackburn, Wayne E., T. D. Bryant, and D. I. Harris, to General Precision, Inc. Apparatus for detecting blood spots in eggs. 3,130,255, 4–21–64, Cl. 88—14.1.

Blacker, Latham V. S. Flashless non-recoil gun and round. 3,128,670, 4–14–64, Cl. 89—1.7.

Blackford, Benjamin B., to Johnson & Johnson. Adhesive tape. 3,161,554, 12–15–64, Cl. 156—242.

Blackhall, Alexander, F. Hall, and G. H. Keats, to Imperial Chemical Industries Ltd. New metallised azo dyestuffs. 3,121,713, 2–18–64, Cl. 260—151.

Blackham, Angus U., to National Distillers and Chemical Corp. Preparation of beta-halo carboxylic acid halides. 3,119,861, 1–28–64, Cl. 260—544.

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Nelson, Permil N. 3,118,402.

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Blackman, Arthur W., Jr., and C. R. Miller, to United Aircraft Corp. Hybrid rocket. 3,144,751, 8–18–64, Cl. 60—35.6.

Blackman, Peter, J. P. Conbere, and E. M. Perry, to I.C.I./Organics/Inc. Plasticized urea-formaldehyde resins. 3,142,653, 7–28–64, Cl. 260—31.8.

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Blackmer Pump Co.: *See*—
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Blackmon, Billy J. Pipe car. 3,143,221, 8–4–64, Cl. 214—2.5.

Blackmon, Charles M. Apparatus for perforating acoustical plaster ceilings. 3,163,064, 12–29–64, Cl. 83—1.

Blackmore, Joseph J., and P. G. Glunt. Vortex-type de-aerator and strainer. 3,151,961, 10–6–64, Cl. 55—205.

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Blackwell, Dana J., to Lewis Engineering Co. Illuminated instrument. 3,143,098, 8–4–64, Cl. 116—129.

Blackwell, George T., Jr. Digging cribbing head device. 3,126,656, 3–31–64, Cl. 37—189.

Blackwell, Jenning P., and R. C. Doss, to Phillips Petroleum Co. Monopropellants. 3,125,852, 3–24–64, Cl. 60—35.4.

Blackwood, Albert J., to Esso Research and Engineering Co. Method and apparatus for retarding spark. 3,156,228, 11–10–64, Cl. 123—146.5.

Blades, Horace T. Garbage can holder. 3,160,380, 12–8–64, Cl. 248—154.

Blades, John D., to Burroughs Corp. Helical wrap memory. 3,154,769, 10–27–64, Cl. 340—174.

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Sabol, Albert R., and Blaha, and Plant. 3,133,022.

Blaha, John F. Pre-scanning speed determining or stopping means for heavy movable machine members. 3,118,334, 1–21–64, Cl. 83—71.

Blahnik, David J., to J. H. Carter. Spring motor operated tilting toy dump truck. 3,145,056, 8–18–64, Cl. 298—22.

Blaich, Mason C.: *See*—
Thomas, Robert M., and Blaich. 3,119,856.

Blain, Paul, to Institute de Recherches de La Siderurgie. Compensated screwdown mechanism for a rolling mill. 3,157,073, 11–17–64, Cl. 80—56.

Blain, Robert L., to Weed-Master (Western) Ltd. Method of controlling plant growth. 3,129,090, 4–14–64, Cl. 71—2.6.

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Haessler, Walter M., and Blair. 3,128,791.

Blair, Arthur R., to The Fyr-Fyter Co. Fire extinguisher. 3,149,677, 9–22–64, Cl. 169—31.

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Blair, Etcyl H., to The Dow Chemical Co. O-alkylmercaptoalkyl and O-arylmercaptoalkyl O-alkyl phosphoramidothioates. 3,159,665, 12–1–64, Cl. 260—461.

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Blair, Laurence R., and K. L. Jaunarajs, to Johns-Manville Corp. Hydrated borate products. 3,126,352, 3–24–64, Cl. 252—478.

Blair, Lloyd S., to General Electric Co. Wire rolling system and method. 3,153,954, 10–27–64, Cl. 80—35.

Blair, Minnie T.: *See*—
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Blair, Noel D., and C. T. Bean, Jr., to Hooker Chemical Corp. Fire retardant bituminous compositions. 3,151,992, 10–6–64, Cl. 106—15.

Blair, Robert A., and H. H. Wagnon, to Drilprodco, Inc. Drilling shock absorber. 3,122,902, 3–3–64, Cl. 64—23.

Blair, Robert C., to Western Gypsum Products Ltd. Plaster mixing device. 3,123,341, 3–3–64, Cl. 259—8.

Blair, Robert C., to Western Gypsum Products Ltd. Fluid operated kettle discharge valve assembly. 3,126,027, 3–24–64, Cl. 137—243.6.

Blair, Robert C., to Western Gypsum Products Ltd. Agitator for plaster making kettles and the like. 3,128,083, 4–7–64, Cl. 259—107.

Blair, Ronald L. Undergarments. 3,144,869, 8–18–64, Cl. 128—498.

Blair, William E.: *See*—
Radke, Richard P., and Blair. 3,129,315.

Blair, William E., and R. P. Radke, to Lear Siegler, Inc. Automatic feed for evaporation material. 3,116,958, 1–7–64, Cl. 312—49.

Blair, William G. Apparatus for positioning the head for X-ray examination. 3,154,683, 10–27–64, Cl. 250—50.

Blair, William H. Ceramic structural products. 3,143,433, 8–4–64, Cl. 106—71.

Blais, Maurice E.: *See*—
Bunting, Warren J., Goodrich, and Blais. 3,143,273.

Blaisdell, Donald, and T. J. Judge, to General Signal Corp. Selective calling system. 3,140,468, 7–7–64, Cl. 340—171.

Blaisdell, Donald S., and R. E. B. Klaas. Process for separating solids from sewage. 3,142,638, 7–28–64, Cl. 210—52.

Blaisdell, Leroy A., to American Can Co. Dyestuffs and alkali metal salts of wood sugar acids and lignin sulfonates. 3,156,520, 11–10–64, Cl. 8—91.

Blaisdell, Raymond C., to Great Northern Paper Co. Roll lift device. 3,134,620, 5–26–64, Cl. 294—88.

Blaisdell, Sidney B., to The Edmands Co. Wire closing machine. 3,138,914, 6–30–64, Cl. 57—58.7.

Blaisdell, Sidney B., and A. J. Ensor, said Blaisdell assor., to The Edmands Co. Controlling means for a double twist wire machine. 3,147,580, 9–8–64, Cl. 57—58.7.

Blake, Arthur T.: *See*—
Weber, Harold, Brown, and Blake. 3,137,456.

Blake, Arthur T. Core cutter. 3,143,014, 8–4–64, Cl. 82—101.

Blake, Charles B., and R. S. Cady, to Scovill Mfg. Co. Wire coiling machine. Re. 25,526, 3–3–64, Cl. 205—16.

Blake, Donald G.: *See*—
Reven, Lewis E., and Blake. 3,128,251.

Blake, Eddie L. Rotorthrust outboard motor. 3,116,598, 1–7–64, Cl. 60—35.6.

Blake, Edward S., and W. C. Hammann, to Monsanto Co. Capacitor and method of making same. 3,155,888, 11–3–64, Cl. 317—258.

Blake, Edwin A., and J. J. Dahl, to The Dow Chemical Co. Stabilized chloroethylenic polymer latexes. 3,125,543, 3–17–64, Cl. 260—23.

Blake, Frederick H. Stick loom shedding means. 3,150,692, 9–29–64, Cl. 139—28.

Blake, Frederick L., to Motorola, Inc. System and method for making records. 3,142,562, 7–28–64, Cl. 96—1.

Blake, Howard C., to Admos, Inc. Article sensing device for an article supporting chute. 3,130,280, 4–21–64, Cl. 200—61.41.

Blake, Howard C., to Admos, Inc. Article releasing means for inclined storage supports. 3,143,247, 8–4–64, Cl. 221—290.

Blake, James A., to Hood, Gust & Irish. Super-regenerative radio receiver. 3,119,065, 1–21–64, Cl. 325—428.

Blakely, James R. Fishing signal device. 3,134,187, 5–26–64, Cl. 43—17.
Blake, John H.: *See*—
Work, Josiah, Joseph, and Blake. 3,140,241.
Work, Josiah, Joseph, and Blake. 3,140,242.
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Ninos, Nicholas J., Lawrence, and Blake. 3,145,996.
Blake, John T., to Scovill Mfg. Co. Ornamental button. 3,141,211, 7–21–64, Cl. 24—90.
Blake, Joyce C., to The International Nickel Co., Inc. Electrodeposition of ruthenium. 3,123,544, 3–3–64, Cl. 204—47.
Blake, Julian H., to Ray Winther Co. Method and apparatus for defrosting refrigeration systems. 3,150,498, 9–29–64, Cl. 62—81.
Blake, Lawrence R.: *See*—
Bilsky, Earl, and Blake. 3,150,481.
Blake, Leslie R., to United Kingdom Atomic Energy Authority. Laminations and laminated structures suitable for use in electrical apparatus. 3,147,711, 9–8–64, Cl. 103—1.
Blake, Leslie R., and A. R. Eames, to United Kingdom Atomic Energy Authority. Induction apparatus including temperature responsive means for measuring the electrical resistivity of liquid metals. 3,151,293, 9–29–64, Cl. 324—30.
Blake, Ralph K., to E. I. du Pont de Nemours and Co. Photographic processes. 3,155,506, 11–3–64, Cl. 96—50.
Blake, Ralph K., to E. I. du Pont de Nemours and Co. Photographic processes. 3,155,507, 11–3–64, Cl. 96—64.
Blake, Ralph K., to E. I. du Pont de Nemours and Co. Photographic compositions and elements. 3,155,514, 11–3–64, Cl. 96—107.
Blake, Ralph K., to E. I. du Pont de Nemours and Co. Photographic products. 3,155,516, 11–3–64, Cl. 96—107.
Blake, Ralph K., to E. I. du Pont de Nemours and Co. Photographic compositions and elements. 3,155,517, 11–3–64, Cl. 96—107.
Blake, Ralph K., to E. I. du Pont de Nemours and Co. Silver halide compositions, layers and elements. 3,155,518, 11–3–64, Cl. 96—107.
Blake, Ralph K., to E. I. du Pont de Nemours and Co. Photographic compositions, layers and elements. 3,155,519, 11–3–64, Cl. 96—107.
Blake, Richard F., W. J. Spaven, and C. C. Ware, to Specialties Development Corp. Controlled frequency power supply system. 3,148,323, 9–8–64, Cl. 321—61.
Blake, William T. Sliding center sill railway car equipment. 3,123,225, 3–3–64, Cl. 213—8.
Blakeley, Richard H. Quick release fastener. 3,152,375, 10–13–64, Cl. 24—211.
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Brinkmann, Emile J., Jr., and Blakely. 3,150,628.
Blakely, Robert T., to International Business Machines Corp. Proportional space recording devices. 3,134,090, 5–19–64, Cl. 340—147.
Blakeman, Edmund H. Metering valve. 3,126,740, 3–31–64, Cl. 73—251.
Blakemore, John W., to Texas Instruments Inc. Logic control system for electrical power transmission network. 3,144,585, 8–11–64, Cl. 317—28.
Blakemore, Robert J.: *See*—
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Blaker, George H., to Radio Corp. of America. Television receiver cabinet. 3,136,850, 6–9–64, Cl. 178—7.8.
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Blakeslee, Harry N., to American Can Co. Opening means for sealed containers. 3,142,412, 7–28–64, Cl. 220—54.
Blakey, Angus R., Jr., to E. I. du Pont de Nemours and Co. Extruder screw. 3,160,916, 12–15–64, Cl. 18—12.
Blakslee, Edward L., to American Can Co. Container. 3,163,310, 12–29–64, Cl. 215—46.
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Blanchard, Andre, to Schlumberger Well Surveying Corp. Method and apparatus for forming cables. 3,142,145, 7–28–64, Cl. 57—9.
Blanchard, Andre, to Schlumberger Well Surveying Corp. Methods for processing cables. 3,153,696, 10–20–64, Cl. 174—108.
Blanchard, Andre. Apparatus for fuel injection. 3,154,152, 10–27–64, Cl. 123—32.
Blanchard, Donn C., to Hurr-I-Cane Awning Shutter Co., Inc. Control means for awning shutters. 3,121,458, 2–18–64, Cl. 160—58.
Blanchard, Donn C., to Cof-Free, Inc. Water heating device. 3,121,783, 2–18–64, Cl. 219—41.
Blanchard, F. W., Inc.: *See*—
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Blanchard, Frederick W., to F. W. Blanchard, Inc. Dishwashing machine. 3,134,487, 5–26–64, Cl. 211—78.
Blanchard, Jean, and F. Douchet, said Blanchard assor. to Vehicules et Travaux VETRA. Starting devices for electric motors. 3,162,797, 12–22–64, Cl. 318—278.
Blanchard, Jean M., to Sirius, Luxembourg Grand-Duche de Luxembourg. Vibration generating unit and vibration treating system. 3,137,882, 6–23–64, Cl. 15—308.
Blanchard, Irene S., and J. A. Bozio. Hair protecting device for use with bathing caps. 3,131,400, 5–5–64, Cl. 2—68.
Blanchard, Thomas R., to American Cyanamid Co. Sampler for reaction kettles and other vessels under pressure or vacuum. 3,162,049, 12–22–64, Cl. 73—421.
Blanche, Richard K., Sr.: *See*—
Breslow, Bertram A., and Blanche. 3,162,127.
Blanchet, Lucien. Removable terminal carrier bar. 3,123,425, 3–3–64, Cl. 339—198.
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Kharasch, Robert N., and Blanchette. 3,122,844.
Blanco, Andrew E. Support for remote control device. 3,152,218, 10–6–64, Cl. 174—70.
Blanco, Angel A., to Imperial Chemical Industries Ltd. Neutron radiation shielding material. 3,142,649, 7–28–64, Cl. 252—478.
Blanco, Elias, to Daystrom, Inc. Potentiometer. 3,120,650, 2–4–64, Cl. 338—202.
Blanco, Elias, to Weston Instruments, Inc. Adjustable potentiometer. 3,156,888, 11–10–64, Cl. 338—149.
Bland, Charles C., to Flex-O-Lite Mfg. Corp. Method for production of glass beads by dispersion of molten glass. 3,150,947, 9–29–64, Cl. 65—21.
Bland, Charles W. Hydraulic spring tooth hitch. 3,137,351, 6–16–64, Cl. 172—624.
Bland, Percy N., to The Black Clawson Co. Fluid transfer device. 3,154,098, 10–27–64, Cl. 137—580.
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Blank, Benjamin, and J. F. Kerwin, to Smith, Kline & French Laboratories. 3'-substituted-3,5-diiodothyronine and salts thereof. 3,149,153, 9–15–64, Cl. 260—519.
Blank, Charles E., to Ingersoll-Rand Co. Crosshead wrist pin assembly. 3,129,966, 4–21–64, Cl. 287—100.
Blank, Charles E., to Ingersoll-Rand Co. Machine bearing lubrication apparatus. 3,131,785, 5–5–64, Cl. 184—6.
Blank, Fritz A., and N. Buten, to Aerquipt Inc. Motion picture film handling system. 3,153,517, 10–20–64, Cl. 242—55.21.
Blank, Hans G., to General Telephone and Electronics Laboratories, Inc. Electroluminescent switching circuit. 3,163,764, 12–29–64, Cl. 250—208.
Blank, Hans G., to General Telephone and Electronics Laboratories, Inc. Complementing circuit employing electroluminescent and photoconductive elements. 3,163,766, 12–29–64, Cl. 250—213.
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Blankenship, William M., and J. R. Worley, to The Dow Chemical Co. Process for preventing cohesion between acrylonitrile polymer fibers with certain pentanediols. 3,122,443, 2–25–64, Cl. 117—7.
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Blanshine, Allison W., to Sperry Rand Corp. Method of manufacturing knives. 3,125,902, 3–24–64, Cl. 76—104.
Blanshine, Allison W., to Sperry Rand Corp. Forage chopper having adjustable cutterhead. 3,135,307, 6–2–64, Cl. 146—120.
Blanshine, Allison W., to Sperry Rand Corp. Stock feeder. 3,163,334, 12–29–64, Cl. 222—412.
Blanshine, Allison W., and G. Locker, to Sperry Rand Corp. Knife support structure. 3,126,931, 3–31–64, Cl. 146—107.
Blanzy, Eugene J., to Lincoln Brass Works. Gas burner structure. 3,131,752, 5–5–64, Cl. 158—116.
Blasch, Friedrich A., to Robert L. Gannon. Housing for electrical apparatus or the like. 3,154,358, 10–27–64, Cl. 312—209.
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Hanson, Roy R. 3,134,244.
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Blase, William W., and J. H. Kogen, to Link Division, General Precision, Inc. Frictionless zero spring rate seal. 3,137,309, 6–16–64, Cl. 137—83.
Blaser, Bruno, K.-H. Worms, and J. Schiefer, to Henkel & Cie, G.m.b.H. Stabilizing agent for peroxy-compounds and their solutions. 3,122,417, 2–25–64, Cl. 23—207.5.
Blaser, Bruno, W. Stein, H. Weiss, and O. Koch, to Henkel & Cie., G.m.b.H. α-sulfonation of saturated fatty acids and their derivatives. 3,158,632, 11–24–64, Cl. 260—400.
Blashfield, William H., to North Electric Co. Tape to ticket arrangement for automatic toll ticketing. 3,119,555, 1–28–64, Cl. 234—30.
Blasingame, Thomas W. Fastening device. 3,162,419, 12–22–64, Cl. 248—361.
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Blaskowski, Henry J., to Combustion Engineering, Inc. High temperature high pressure steam generator. 3,139,068, 6–30–64, Cl. 122—31.
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Blass, Adolf, to Buckeye Iron & Brass Works. Combination or branch valve. 3,148,704, 9–15–64, Cl. 137—612.1.
Blass, Ulrich, and H. Ischer, to Sandoz Ltd. Reactive azo dyes. 3,158,597, 11–24–64, Cl. 260—199.

Blatt, David H., to Walnut Industries, Inc. Reinforced closure and retainer panels. 3,156,604, 11–10–64, Cl. 161—113.

Blatt, Leland F. Work extractor arm for a press. 3,127,026, 3–31–64, Cl. 214—1.

Blatt, Leland F. Work securing clamp. 3,147,004, 9–1–64, Cl. 269—233.

Blatt, Paula. Panty girdle or the like. 3,133,540, 5–19–64, Cl. 128—528.

Blattner, Donald J., to United States of America, Navy. Strip line phase comparator. 3,147,435, 9–1–64, Cl. 324—83.

Blattner, Donald J., to United States of America, Navy. Wide band traveling wave parametric amplifier. 3,150,325, 9–22–64, Cl. 330—4.6.

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Schindler, Walter, and Blattner. 3,144,442.
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Blatz, Philip S., to E. I. du Pont de Nemours and Co. Extrudable composition consisting of a polyolefin and a fluorocarbon polymer. 3,125,547, 3–17–64, Cl. 260—45.5.

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Stuckwisch, Clarence G., and Blau. 3,158,626.

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Blay, Justin S., to Selas Corp. of America. Galvanizing one side of a strip of metal. 3,121,019, 2–11–64, Cl. 117—5.5.

Blaze, Casey J., and C. G. Richter, to United States of America, National Aeronautics and Space Administration. Formed metal ribbon wrap. 3,162,012, 12–22–64, Cl. 60—39.66.

Blazensky, Nicholas J., Jr., and R. L. Buckingham, to International Business Machines Corp. Liquid applicator. 3,158,080, 11–24–64, Cl. 95—89.

Blazo, Walter. Transmission. 3,159,056, 12–1–64, Cl. 74—751.

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Blechschmidt, Otto. Apparatus for supporting sausage casings. 3,122,779, 3–3–64, Cl. 17—41.

Blecker, Raymond H., to Simmons Co. Mattress construction. 3,138,807, 6–30–64, Cl. 5—351.

Blecker, Raymond H., to Simmons Co. Bed construction. 3,142,848, 8–4–64, Cl. 5—174.

Bleckmann, Richard. Fixation of tubular electric heaters. 3,118,124, 1–14–64, Cl. 338—317.

Bledsoe, Martin L. Plow mounting connection. 3,120,873, 2–11–64, Cl. 172—751.

Bledsoe, Martin L. Quick disconnect sweep. 3,156,307, 11–10–64, Cl. 172—744.

Bledsoe, Woodrow W., to The Murray Co. of Texas, Inc. Roller gin and method of ginning cotton. 3,145,424, 8–25–64, Cl. 19—1052.

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Bleecker, Maitland B. Launching device for boat trailers. 3,149,735, 9–22–64, Cl. 214—85.5.

Bleicher, Robert L., to Dayton Perforators, Inc. Work holder. 3,118,260, 1–21–64, Cl. 51—236.

Bleicher, Robert L., to Dayton Perforators, Inc. Split bushing. 3,155,440, 11–3–64, Cl. 308—237.

Bleick, Charles F., to Canvas Specialty Mfg. Co. Tent assembly. 3,119,402, 1–28–64, Cl. 135—1.

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Bleiweiss, Arthur F., G. W. Colombo, J. B. Dickson, and B. Orlov, to Signal-Stat Corp. Voltage and temperature compensated vane flasher. 3,122,620, 2–25–64, Cl. 200—122.

Blemly, Marvin S., and L. Mayer, to Jervis B. Webb Co. Electrified rail construction for cranes, monorails, and the like. 3,155,207, 11–3–64, Cl. 191—23.

Blenner, Aaron, and R. Callahan. Double sheet detector for printing presses. 3,158,369, 11–24–64, Cl. 271—57.

Blesch, Charles A., and C. K. Benson, to No Flame Process, Inc. Calcination retort. 3,136,273, 6–9–64, Cl. 110—3.

Bleser, Heribert, to Huttenwerk Oberlhausen. Collapsible core for forming hot top in ingot molds. 3,117,354, 1–14–64, Cl. 22—9.

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Blezard, Leonard, to Hawker Siddeley Aviation Ltd. Cooling by heat exchange with liquid fuel in aircraft. 3,158,197, 11–24–64, Cl. 165—40.

Blicke, Frederick F., to The Regents of the University of Michigan. 1-(α-phenylbenzyl)-octahydro-1,5-diazocine compound. 3,117,963, 1–14–64, Cl. 260—239.

Blickensderfer, Robert, to Armco Steel Corp. Metallic structural element. 3,122,224, 2–25–64, Cl. 189—37.

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Blieske, Herbert, to Alfred Gauthier, G.m.b.H. Photographic camera with automatic exposure setting mechanism. 3,122,978, 3–3–64, Cl. 95—10.

Blight, Frank C., to The Permutit Co. Ltd. Demineralisation of water. 3,147,215, 9–1–64, Cl. 210—24.

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Blink, Peter and R. O., to Mitchell Mfg. Co. Torsion bar leg structures for folding tables. 3,143,982, 8–11–64, Cl. 108—113.

Blink, Robert O.: *See*—
Blink, Peter and R. O. 3,143,982.

Blinn, Franz, to Moeller & Neumann G.m.b.H. Arrangement for elongating a stay bolt means or tension anchor independently of nut means associated therewith. 3,130,628, 4–28–64, Cl. 85—1.

Blish, Matthew B. Self-aligning neck card label. 3,149,431, 9–22–64, Cl. 40—311.

Bliss, Douglas E. Detachable windshield protector. 3,140,115, 7–7–64, Cl. 296—95.

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Bliss, George N., to Page-Detroit, Inc. Article reservoir and transfer system and device. 3,139,176, 6–30–64, Cl. 198—195.

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Bliss, Horace H., and G. B. Emory. Device for teaching atomic structure and the properties of elements. 3,156,985, 11–17–64, Cl. 35—18.

Bliss, Max D., Jr. Sulky. 3,163,438, 12–29–64, Cl. 280—43.

Bliss, Robert H. Lawn table. 3,134,625, 5–26–64, Cl. 297—157.

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Blitz, Daniel, to Sanders Associates, Inc. Governor for one shot gyro. 3,162,053, 12–22–64, Cl. 74—5.7.

Blitzer, Sidney M., M. W. Farrar, T. H. Pearson, and J. R. Zietz, Jr., to Ethyl Corp. Manufacture of organolead compounds. 3,136,795, 6–9–64, Cl. 260—437.

Blitzer, Stanford D.: *See*—
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Blitzer, Stanford D., and D. V. Consalvo; said Blitzer assor. General Precision Inc. Linear accelerometer, pick-off mechanism and variable damping mechanism combination. 3,126,746, 3–31–64, Cl. 73—497.
Bliven, Charles V., and C. S. Cheng, to Ford Motor Co. Hydraulic shock absorber having hydraulic stop means. 3,150,747, 9–29–64, Cl. 188—88.
Blix, Weltzin B., Jr., to Nordberg Mfg. Co. Method and apparatus for used tie disposal. 3,128,808, 4–14–64, Cl. 144—309.
Blizard, Robert B., to Schlumberger Well Surveying Corp. Electroacoustic transducer apparatus. 3,138,219, 6–23–64, Cl. 181—.5.
Bloch, Herman S.: *See*—
Meisinger, Erwin E., and Bloch. 3,128,318.
Schmerling, Louis, and Bloch. 3,134,812.
Bloch, Herman S., and W. K. T. Gleim, to Universal Oil Products Co. Preparation of jet fuels. 3,126,420, 3–24–64, Cl. 260—666.
Bloch, Hubert, to Ciba Corp. Immunizing composition containing mesoinosito-tri-alpha-D-mannoside. 3,142,620, 7–28–64, Cl. 167—79.
Bloch, Jack, to Loma Industries. Utensil tray with knife sharpening means. 3,135,383, 6–2–64, Cl. 206—75.
Bloch, Jack, and H. L. Loew. Device for removing and inserting fluorescent lamps. 3,143,371, 8–4–64, Cl. 294—20.
Bloch, Lillian P., to Campbell Pharmaceuticals, Inc. Method for producing 2-pyridinealdoxime methochloride. 3,123,-613, 3–3–64, Cl. 260—296.
Blocher, John M., Jr.: *See*—
Stoughton, Lincoln D., Blocher, and Veigel. 3,121,047.
Blocher, John M., Jr., to United States of America, Navy. Flow seal systems. 3,118,737, 1–21–64, Cl. 23—252.
Blocher, Thomas J., Jr., to Westinghouse Air Brake Co. Data storage system. 3,126,524, 3–24–64, Cl. 340—173.
Blocher, Thomas J., Jr., to Westinghouse Air Brake Co. Transistor amplifier-switching circuit with Zener diode limiting for elimination of unattenuated signals. 3,131,309, 4–28–64, Cl. 307—88.5.
Block, Aleck, to Merit Products, Inc. Rotary abrasive flap wheel. 3,116,575, 1–7–64, Cl. 51—193.5.
Block, Aleck, to Merit Products, Inc. Abrasive polisher. 3,116,576, 1–7–64, Cl. 51—193.5.
Block, Aleck, to Merit Products, Inc. Rotary abrasive device. 3,132,452, 5–12–64, Cl. 51—193.7.
Block, Aleck, to Merit Products, Inc. Abrading article. 3,141,-269, 7–21–64, Cl. 51—193.5.
Block, Aleck, to Merit Products, Inc. Abrading apparatus. 3,144,738, 8–18–64, Cl. 51—193.5.
Block, Aleck, to Merit Products, Inc. Abrading article. 3,157,010, 11–17–64, Cl. 51—377.
Block, Alfred E.: *See*—
Baglow, Denis V., Johnson, and Block. 3,120,793.
Block, Alfred E., to Block & Anderson Ltd. Selective printing arrangements for rotary printing or duplicating machines. 3,138,092, 6–23–64, Cl. 101—91.
Block & Anderson Ltd.: *See*—
Baglow, Denis V., Johnson, and Block. 3,120,793.
Block, Alfred E. 3,138,092.
Bonsch, Francois R. 3,150,588.
Brougham, Leslie E. 3,153,379.
Brown, Roland. 3,150,587.
Matthews, Stephen, and Brown. 3,158,091.
Block, Charles, and J. R. Gardner, to Minnesota Mining & Mfg. Co. Photoprinter timing apparatus. 3,140,645, 7–14–64, Cl. 95—73.
Block, Clarence F.: *See*—
Evanson, Clifford E., Jorgensen, Albrecht, Block, and Larsen. 3,156,195.
Block Drug Co., Inc.: *See*—
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Block, Edward A.: *See*—
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Block, Leo, and J. H. Hollingsworth, to Carrier Corp. Air heating apparatus. 3,140,706, 7–14–64, Cl. 126—110.
Block, M Sabel, J. J. Lubus, M. D. Sidbury, and C. O. Jensen, to P. Lorillard Co. Processing tobacco. 3,141,462, 7–21–64, Cl. 131—140
Block, Peter, to Derse Products, Inc. Container for dispensing purposes. 3,130,875, 4–28–64, Cl. 222—143.
Blockson, Ellis A. Electroluminescent sign and method of making the same. 3,161,974, 12–22–64, Cl. 40—130.
Bloctube Controls Ltd.: *See*—
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Blodee, Leif. Dispenser for tape. 3,138,310, 6–23–64, Cl. 225—65.
Blodee, Leif, to Herman Miller, Inc. Stacking chairs. 3,156,498, 11–10–64, Cl. 297—162.
Blogdett, Leo S.: *See*—
Blodgett, Richard E., and L. S. 3,122,835.
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Blodgett, Stewart B. 3,142,349.
Blodgett, Norman S.: *See*—
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Blodgett, Norman S., to Riley Stoker Corp. Steam generating unit. 3,146,760, 9–1–64, Cl. 122—478.
Blodgett, Norman S., to Riley Stoker Corp. Steam generating unit. 3,146,761, 9–1–64, Cl. 122—479.
Blodgett, Norman S., to Riley Stoker Corp. Steam generating unit. 3,146,762, 9–1–64, Cl. 122—479.
Blodgett, Norman S., to Riley Stoker Corp. Steam generating unit. 3,146,763, 9–1–64, Cl. 122—481.
Blodgett, Richard E. Reusable mercury circuit breaker device. 3,131,273, 4–28–64, Cl. 200—113.
Blodgett, Richard E., and L. S. Layout board for use in the graphic arts. 3,122,835, 3–3–64, Cl. 33—80.
Blodgett, Stewart B., to Blodgett Mfg. Co. Dynamically compensated weighing scales. 3,142,349, 7–28–64, Cl. 177—164.
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Blohm, Richard, to Köstler & Co. Chord forming device for string instruments. 3,154,994, 11–3–64, Cl. 84—317.
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Blom, Conrad C., to Bommer Spring Hinge Co., Inc. Concealed overhead door closer. 3,137,888, 6–23–64, Cl. 16—51.
Blom, Otto F. Multi-purpose garden implement. 3,138,211, 6–23–64, Cl. 172—371.
Blom, Roy A., to Potter Instrument Co., Inc. Expandible key. 3,145,036, 8–18–64, Cl. 287—52.05.
Blomberg, Göte E. E. Fastening arrangement for tarpaulins. 3,121,271, 2–18–63, Cl. 24—141.
Blomberg, Richard N., to E. I. du Pont de Nemours and Co. Textile filament anti-static graft copolymers of acrylonitrile polymers and specific vinyl sulfonic acids or water-soluble salts thereof. 3,123,434, 3–3–64, Cl. 8—115.5.
Blomgren, Oscar C., and O. C. Blomgren, Jr. Gear pump. 3,128,710, 4–14–64, Cl. 103—42.
Blomgren, Oscar C., and O. C., Jr., to Coy Mfg. Co. Gear pump assembly. 3,139,834, 7–7–64, Cl. 103—126.
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Blomgren, Oscar C., and O. C. Blomgren, Jr. 3,128,710.
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Blommel, William. Heel jacks. 3,140,547, 7–14–64, Cl. 33—164.
Blommers, Elizabeth A.: *See*—
Loshaek, Samuel, and Blommers. 3,125,552.
Tsou, Kwan C., and Blommers. 3,159,612.
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Magers, William M., Wermager, and Blomquist. 3,120,-784.
Magers, William M., Wermager, and Blomquist. 3,133,-776.
Blomquist, George I., and J. A. Johnson, to American Hospital Supply Corp. Serving tray. 3,148,636, 9–15–64, Cl. 108—26.
Blomquist, Orlo J. Wedge type open combustion chamber for improved combustion in diesel engines. 3,156,223, 11–10–64, Cl. 102—92.5.
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Chaffee, Lester, and Blomquist. 3,119,305.
Blomstrom, Dale C.: *See*—
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Blonder, Isaac S., to Blonder-Tongue Electronics. Electrical connector locking system. 3,129,992, 4–21–64, Cl. 339—37.
Blonder, Isaac S., to Blonder-Tongue Electronics. Electrical outlet attachment. 3,131,985, 5–5–64, Cl. 339—37.
Blonder, Isaac S., to Blonder Tongue Electronics. Multiple-point electrical connector. 3,144,290, 8–11–64, Cl. 339—95.
Blonder, Isaac S., to Blonder-Tongue Electronics. Attenuator system having end-terminated dissipative long line with input and output taps movable symmetrically to mid point. 3,144,625, 8–11–64, Cl. 333—81.
Blonder, Isaac S., and W. E. Sampson, to Blonder Tongue Electronics. Transmission-line connector. 3,154,362, 10–27–64, Cl. 339—97.
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Watson, Wilfred H., and Blood. 3,130,030.
Blood Plasma Corp. of Japan, The: *See*—
Watanabe, Ryozo, and Funakoshi. 3,140,291.
Blood, Robert H., to Jersey Production Research Co. Oil recovery method. 3,126,962, 3–31–64, Cl. 166—42.
Bloodworth, Loy H., and K. E. Wood, to United States of America, Navy. Power saving switch driver system. 3,143,668, 8–4–64, Cl. 307—88.5.
Bloom, Aaron, to Sierra Engineering Co. Mouth to mouth resuscitator. 3,158,152, 11–24–64, Cl. 128—29.
Bloom, Aaron, and W. D. Morton, Jr., to Sierra Engineering Co. De-icer boot for breathing mask. Re. 25,688, 11–17–64, Cl. 128—146.

Bloom, Aaron, and O. W. Wilcox, to Sierra Engineering Co. Passenger mask assembly. 3,158,153, 11–24–64, Cl. 128—142.

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Bloom, Frederick S. Furnace burner system. 3,139,138, 6–30–64, Cl. 158—11.

Bloom, Frederick S. Variable flame type gas burner. 3,154,-134, 10–27–64, Cl. 158—109.

Bloom, John E. Bottle pouring attachment with swivel spout. 3,139,224, 6–30–64, Cl. 222—479.

Bloom, Leslie C., to Lubrilite Corp. Illuminating grease gun. 3,128,952, 4–14–64, Cl. 240—6.46.

Bloom, Martin S., and J. J. Hirzel, to Imperial Chemical Industries Ltd. Omegatron electrode assembly. 3,152,280, 10–6–64, Cl. 313—243.

Bloom, Otto N. Method of making small to sub-miniature sizes of electrical coils. 3,159,907, 12–8–64, Cl. 29—155.5.

Bloom, Richard A., to Lipe-Rollway Corp. Self-energizing friction clutch. 3,158,241, 11–24–64, Cl. 192—82.

Bloomer, Robert P. Cylinder liner splitting tool. 3,153,281, 10–20–64, Cl. 30—91.

Bloomfield, Allan A., J. A. Carter, G. H. Jones, J. Saunders, and J. G. Searle, to British Nylon Spinners Ltd. Spinnerets for producing heterofilaments. 3,161,914, 12–22–64, Cl. 18—8.

Bloomfield, Peter R., to Artrite Resins Ltd. Production of polymers containing s-triazine nuclei linked together by a nitrogen atom comprising reacting s-triazines with nitrogen compounds. 3,155,628, 11–3–64, Cl. 260—2.

Bloomfield, Peter R., and K. Parvin, to Artrite Resins Ltd. Method for the preparation of polyaromatic resins. 3,159,-589, 12–1–64, Cl. 260—2.

Bloomfield, Rodger E., to General Motors Corp. Plug together relay and printed circuit board. 3,142,784, 7–28–64, Cl. 317—113.

Bloomingdale, Paul F., to The Coleman Co., Inc. Blower assembly. 3,117,715, 1–14–64, Cl. 230—117.

Bloomquist, Arthur G., R. E. Eggers, and P. J. Gobel, to Northern Ordnance, Inc. Cable retainer for electrical connectors. 3,116,945, 1–7–64, Cl. 287—119.

Bloomquist, George W., to FMC Corp. Hydraulic valve. 3,144,039, 8–11–64, Cl. 137—222.

Bloomsburgh, Ralph A., W. P. Boothroyd, and R. C. Moore, to Philco Corp. Deflection yoke with separable portions for CRT with constricted neck. 3,163,794, 12–29–64, Cl. 313—76.

Bloss, Ronald E., and R. E. Kohls, to The Upjohn Co. Treating coccidiosis with lincomycin. 3,150,042, 9–22–64, Cl. 167—53.1.

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Blount, Floyd E., to Socony Mobil Oil Co., Inc. Flanging tool. 3,142,868, 8–4–64, Cl. 18—19.

Blount, Floyd E., and C. J. Fritts, to Socony Mobil Oil Co., Inc. Method and structure for repairing pipelines. 3,123,-101, 3–3–64, Cl. 138—97.

Blount, Frank E., and M. E. Krom, to Bell Telephone Laboratories, Inc. Telephone line concentrator. 3,133,156, 5–12–64, Cl. 179—18.

Blount, Luther H. Safety release for trawl wires. 3,119,601, 1–28–64, Cl. 254—137.

Blount, Luther H. Controllable pitch propeller. 3,135,336, 6–2–64, Cl. 170—160.43.

Blout, Elkan R., S. Kasman, and M. S. Simon, to Polaroid Corp. Novel photographic products, processes and compositions employing anthrapyridone developers. 3,126,280, 3–24–64, Cl. 96—29.

Blout, Elkan R., and M. S. Simon, to Polaroid Corp. Nitro and amino ketones. 3,131,219, 4–28–64, Cl. 260—575.

Blout, Elkan R., M. Green, and H. G. Rogers, to Polaroid Corp. Photographic products, compositions and processes employing azo dye developers. 3,134,672, 5–26–64, Cl. 96—29.

Blout, Elkan R., M. Green, and H. G. Rogers, to Polaroid Corp. Azo dyes containing a dihydroxyphenyl silver halide developing radical. 3,134,764, 5–26–64, Cl. 260—162.

Blout, Elkan R., M. Green, H. G. Rogers, and M. S. Simon, R. B. Woodward, to Polaroid Corp. Novel photographic products and processes employing anthraquinone dye. 3,135,606, 6–2–64, Cl. 96—29.

Blout, Elkan R., and M. S. Simon, to Polaroid Corp. Photographic products, processes and compositions utilizing acyl hydroquinones. 3,142,564, 7–28–64, Cl. 96—29.

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Bloyaert, Felix, to Solvay & Cie. Process and three-component catalyst for propylene polymerization containing an organo aluminum compound and titanium tetrachloride-hydrogen sulfide or hydrogen selenide reaction product. 3,159,614, 12–1–64, Cl. 260—93.7.

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Bluck, Raymond M., to Thompson Ramo Wooldridge Inc. Multi-material refractory rocket parts and fabrication methods. 3,142,960, 8–4–64, Cl. 60—35.6.

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Bimber, Russell M., Bluestone, and Rosen. 3,130,199.

Bluestone, Henry, to Diamond Alkali Co. Novel bicyclo [2. 2. 2]oct 7-ene tetracarboxylic diimides. 3,138,615, 6–23–64, Cl. 260—326.

Bluestone, Henry, and F. W. Rowland, to Diamond Alkali Co. Herbicidal and pesticidal halogenated terephthalaldehyde compositions. 3,146,086, 8–25–64, Cl. 71—2.3.

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Blum, Louis, to Blumcraft of Pittsburgh. Fastener assembly. 3,157,378, 11–17–64, Cl. 248—230.

Blum, Robert J., to Sperry Rand Corp. Binary code translating device. 3,138,794, 6–23–64, Cl. 340—347.

Blumberg, Harold: *See*—
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Blumberg, Morris, to Interchemical Corp. Rubber composition and article of manufacture containing said composition. 3,156,606, 11–10–64, Cl. 161—176.

Blumbergs, John H., and H. K. Latourette, to FMC Corp. Stabilization of peroxy carboxylic acids. 3,130,169, 4–21–64, Cl. 252—186.

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Blume, Erhard F. W. Automatic switch. 3,121,776, 2–18–64, Cl. 200—102.

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Blume, Walter S., to Leyman Corp. Method of producing permanent magnets. 3,126,617, 3–31–64, Cl. 29—155.6.

Blume, Walter S., Jr., to Leyman Corp. Method of improving the elasticity of rubber bonded magnets. 3,121,131, 2–11–64, Cl. 264—104.

Blume, Walter S., Jr. Method of producing curved radially aligned matrix bonded fine particle permanent magnets. 3,127,461, 3–31–64, Cl. 264—325.

Blume, Walter S., Jr., to Leyman Corp. Apparatus for magnetizing permanent magnet materials to form band-like poles thereon. 3,127,544, 3–31–64, Cl. 317—203.

Blume, Walter S., Jr., to Leyman Corp. Mechanical orientation of magnetically anisotropic particles. 3,141,050, 7–14–64, Cl. 264—175.

Blumenfeld, Charles M. Sampling. 3,127,773, 4–7–64, Cl. 73—423.

Blumenfeld, Martin A., and L. Y. Li, to Sperry Rand Corp. Elapsed time indicator. 3,119,754, 1–28–64, Cl. 204—52.

Blumenfeld, Sylvan. Surgical instruments. 3,126,889, 3–31–64, Cl. 128—303.

Blumenkopf, Norman, and O. F. Hecht, to General Aniline & Film Corp. New compounds, polymers and copolymers. 3,126,363, 3–24–64, Cl. 260—85.5.

Blumenkrantz, Max, and E. L. Jones, to Apex Sewing Machine Co., Inc. Sewing machine attachments. 3,125,972, 3–24–64, Cl. 112—139.

Blumenshine, Hugh M., to The Siegler Corp. Electric switch having object sensing operating means. 3,127,486, 3–31–64, Cl. 200—61.42.

Blumenshine, Hugh M., to Lear Siegler, Inc. Forced air wall heater. 3,133,535, 5–19–64, Cl. 126—110.

Blumenthal, Gerald. Eye-protective device. 3,120,002, 2–4–64, Cl. 2—9.

Blumstein, Abraham. Cuff links. 3,160,932, 12–15–64, Cl. 24—97.

Blumstein, Abraham. Cuff links. 3,160,933, 12–15–64, Cl. 24—97.

Blunden, Donald J., to Whitehead & Kales Co. Carrier rack assembly for use on transportation vehicles. 3,158,107, 11–24–64, Cl. 105—368.

Blunden, Donald J., R. J. Haggarty, and J. E. Black, Jr., to Whitehead & Kales Co. Vehicle transport loading and unloading structure. 3,116,844, 1–7–64, Cl. 214—85.

Blunk, Robert W., to United States of America, Army. Gun mount. 3,138,994, 6–30–64, Cl. 89—37.

Blunt, Roger N.: *See*—
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Bly, Donald A., and R. E. Le Blanc, to Hamilton Watch Co. Automatic regulator for timepiece. 3,142,956, 8–4–64, Cl. 58—85.5.

Blystone, Paul D., to General Motors Corp. Suction inlet screen damper. 3,121,473, 2–18–64, Cl. 184—1.

Blyth, Henry A., to Illinois Tool Works Inc. Transformer mounting clip and assembly. 3,134,467, 5–26–64, Cl. 189—35.

Blythe, Clarence M., and G. T. Hammond, to Royal McBee Corp. Pneumatic capacitor. 3,127,746, 4–7–64, Cl. 60—60.
Blythe, John B. Boat bumper and container. 3,145,686, 8–25–64, Cl. 114—219.
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Boardman, Leland J. Oscillating mirror photometer. 3,125,625, 3–17–64, Cl. 88—14.
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Boatright, Arthur: *See*—
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Bobbitt, Charles O. Support plate for differential and power divider assembly. 3,145,971, 8–25–64, Cl. 254—133.
Bobear, William J., to General Electric Co. Organopolysiloxane compositions incorporating heat-age resistant rare earth compounds. 3,142,655, 7–28–64, Cl. 260—37.
Bobeck, Andrew H., to Bell Telephone Laboratories, Inc. Electrical information handling circuit. 3,142,045, 7–21–64, Cl. 340—173.2.
Bobeck, Andrew H., to Bell Telephone Laboratories, Inc. Magnetic data storage system. 3,151,316, 9–29–64, Cl. 340—174.
Bobeck, Andrew H., to Bell Telephone Laboratories, Inc. Magnetic memory circuits. 3,163,855, 12–29–64, Cl. 340—174.
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Bobisch, Peter, and C. Sondhauss, to Telefunken Patentverwertungs-G.m.b.H. Traveling wave parametric amplifier. 3,146,403, 8–25–64, Cl. 330—4.6.
Boblak, Thaddeus F.: *See*—
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Boblit, Ronald E.: *See*—
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Bobo, Gonzalous A., Jr.: *See*—
Hagemeyer, Hugh J., Jr., Wright, and Bobo. 3,121,051.
Bobo, Melvin, J. R. Martin, and R. J. Smuland, to General Electric Co. Stator assembly. 3,142,475, 7–28–64, Cl. 253—78.
Bobon, Fritz, and G. Meewes, to Siemens & Halske Aktiengesellschaft. Tunnel diode biased in negative resistance region by Zener diode power supply means. 3,146,416, 8–25–64, Cl. 334—40.
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Bobrowski, Louis G., to The Stanley Works. Fastener. 3,147,524, 9–8–64. Cl. 24—73.
Bobrowsky, Alfred R.: *See*—
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Bobrowsky, Alfred R., to Nuclear Corp. of America. Liquid level indicator. 3,145,567, 8–25–64, Cl. 73—295.
Bobrowsky, Alfred R., to Engelhard Industries, Inc. Method for improving properties of articles. 3,156,974, 11–17–64, Cl. 29—423.
Bobrowsky, Alfred R., to Engelhard Industries, Inc. High pressure process for improving the mechanical properties of metals. 3,157,540, 11–17–64, Cl. 148—131.
Bobryk, Frank J. Power driven chuck and rotary saw bit therefor. 3,129,734, 4–21–64, Cl. 143—133.
Bobst, J., and Son SA.: *See*—
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Boccardi, Patsy, and A. Sweeney. Game apparatus comprising finger-supported ball projectors and wrist-supported basket. 3,130,971, 4–28–64, Cl. 273—101.
Bocchino, Roger P. A. Decoy fish. 3,122,852, 3–3–64, Cl. 43—42.08.
Bochan, John, to General Electric Co. Variable speed belt drive. 3,116,644, 1–7–64, Cl. 74—230.17.
Bochan, John, to General Electric Co. Resilient material check valve. 3,118,468, 1–21–64, Cl. 137—525.1.
Bochan, John, to General Electric Co. Clothes washer with improved turbine type pump. 3,127,840, 4–7–64, Cl. 103—3.
Bochan, John, to General Electric Co. Means for indicating the end of operation of a machine. 3,127,867, 4–7–64, Cl. 116—67.
Bochan, John, to General Electric Co. Speed responsive clutch with locking means. 3,131,797, 5–5–64, Cl. 192—103.
Bochan, John, to General Electric Co. Centrifuging machine having anti-precessional damping means. 3,132,098, 5–5–64, Cl. 210—365.
Bochan, John, to General Electric Co. Washing machine. 3,144,759, 8–18–64, Cl. 68—23.
Bochan, John, to General Electric Co. Speed responsive clutch with variable means. 3,159,257, 12–1–64, Cl. 192—104.
Bochan, John, and E. D. Morey, to General Electric Co. Laundry centrifuging machine with improved clothes container. 3,146,196, 8–25–64, Cl. 210—380.
Bochkoros, William, and L. J. Szabo, to The Clark-Reliance Corp. Steam trap. 3,150,677 9–29–64, Cl. 137—183.
Bochman, Harry L., Jr.: *See*—
Wing, George S., and Bochman. 3,124,908.
Bochman, Harry L., Jr., to Kirk-Wing Co. Retractable aircraft landing gear. 3,132,829, 5–12–64, Cl. 244—102.
Bochman, Harry L., Jr., to Hi-Shear Corp. Fastener assembled by fluid forces. 3,139,787, 7–7–64, Cl. 85—7.
Bochumer Verein fuer Gussstahlfabrikation Aktiengesellschaft: *See*—
Sickbert, Adolf. 3,146,503.
Bock, Ditmar H., to Cornell Aeronautical Laboratory, Inc. Apparatus for reproducing and transmitting transient images of a subject movable relative to the apparatus. 3,129,284, 4–14–64, Cl. 178—7.2.
Bock, Eugen: *See*—
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Bock, George E., to Amsted Industries Inc. Retractable stanchion. 3,127,142, 3–31–64, Cl. 248—119.
Bock, Gerald L., to Elkhart Welding and Boiler Works, Inc. Trailer hitch with load equalizing mechanism. 3,151,879, 10–6–64, Cl. 280—406.
Bock, Immo E., to Atomic Energy of Canada Ltd. Thermocouple with four dissimilar wires. 3,120,126, 2–4–64, Cl. 73—359.
Bock Machine Co.: *See*—
Smith, Charles E. 3,125,920.
Bock, Michael, II: *See*—
Bishop, Harold F., Wiley, and Bock. 3,162,558.
Bock, Otto H., to United States of America, Air Force. Optical range and viewfinder for invisible light imaging devices. 3,131,307, 4–28–64, Cl. 250—83.3.
Bock, Robert O., and G. M. Davidson, to American Bosch Arma Corp. Analog to digital converter. 3,136,987, 6–9–64, Cl. 340—347.
Bock, Willy, A. Kohler, and R. Plog, to SWF-Spezialfabrik fur Autozubehor. Valved T-pipe joint, particularly for windshield washing apparatus. 3,119,411, 1–28–64, Cl. 137—525.3.
Bockelmann, Victor G., to United States of America, Navy. Parachute harness. 3,124,326, 3–10–64, Cl. 244—151.
Bockemuehl, Robert R., to General Motors Corp. Electromagnetic quantizer. 3,155,960, 11–3–64, Cl. 340—347.
Bockemuehl, Robert R., to General Motors Corp. Composite field effect transistor. 3,135,926, 6–2–64, Cl. 330—38.
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Heiss, Rudolf, Bocker, and Unterstenhofer. 3,134,806.
Heiss, Rudolf, Böcker, and Unterstenhofer. 3,160,554.
Bockhorst, Roy E., to Olin Mathieson Chemical Corp. Sheet metal structure. 3,117,621, 1–14–64, Cl. 165—70.
Böckmann, Klaus, and C. Taube, to Farbenfabriken Bayer Aktiengesellschaft. Process for the improvement of the fastness to washing of direct dyeings on cellulose-containing materials. 3,141,728, 7–21–64, Cl. 8—74.
Bockmann, Walter: *See*—
Reichold, Ernst, Jacobs, and Bockmann. 3,155,637.
Bockstahler, Theodore E., C. H. McKeever, and J. W. Nemec, to Rohm & Haas Co. Process for the preparation of 1,3,5-trivinylbenzene. 3,153,102, 10–13–64, Cl. 260—669.
Bocquentin, Jacques, and J. Givry, to Pechiney, Compagnie de Produits Chimiques et Electrometallurgiques. Method and means for reducing or eliminating level variations of molten metal in high amperage electrolysis cells. 3,159,561, 12–1–64, Cl. 204—243.
Bocquet, Philip E., and J. N. Dew, to Continental Oil Co. Method of secondary recovery of hydrocarbons. 3,134,433, 5–26–64, Cl. 166—9.
Boda, Robert A.: *See*—
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Bodanszky, Miklos, to Olin Mathieson Chemical Corp. Preparation of phenyl esters via alkoxyvinyl and alkoxyacetylene intermediates and use thereof in peptide synthesis. 3,137,684, 6–16–64, Cl. 260—112.
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Boddaert, David K.: *See*—
Boddaert, Willem R. 3,132,450.
Boddaert, Edward P.: *See*—
Boddaert, Willem R. 3,132,450.
Boddaert, Willem R., to E. P. and D. K. Boddaert. Machines for grinding the points of drills. 3,132,450, 5–12–64, Cl. 51—125.
Boddy, Leonard, to King-Seeley Thermos Co. Fluid level signal system. 3,132,331, 5–5–64, 340—244.
Boddy, Leonard, to King-Seeley Thermos Co. Electrical control system. 3,159,824, 12–1–64, Cl. 340—213.

Bode, Harald E. W.: *See*—
Thomas, Howard M., Bode, and Brand. 3,155,760.
Bode, Harald E. W., to The Wurlitzer Co. Reed with curved taper. 3,154,997, 11–3–64, Cl. 84—408.
Bode, Henry W.: *See*—
Horn, Arthur H., and Bode. 3,129,578.
Bode, Siegfried: *See*—
Rafael, Hans, and Bode. 3,138,430.
Bodeker, Gunter, to Industrie-Companie Kleinewefers Konstruktions- und Handelsgesellschaft m.b.H. Device for controlling the pressure in a furnace chamber. 3,123,028, 3–3–64, Cl. 110—163.
Boden, Ogden W. Slide clamp. 3,132,390, 5–12–64, Cl. 24—30.5.
Bodendorf, Warren J.: *See*—
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Bodendorf, Warren J., and F. H. Osborne, to C. H. Dexter & Sons, Inc. Carbon-filled sheet and method for its manufacture. 3,149,023, 9–15–64, Cl. 162—135.
Bodenger, Jacob. Stethoscope. 3,144,091, 8–11–64, Cl. 181—24.
Bodenröder, Karl. Record changers for automatic uninterrupted playing of upper and lower side of record loading. 3,133,736, 5–19–64, Cl. 274—10.
Bodenschatz, August, to I-T-E Circuit Breaker Co. Current limiting circuit breaker having both contacts movable. 3,127,488, 3–31–64, Cl. 200—106.
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Möller, Waldemar. 3,142,792.
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Bodian, Marcus, to Sunbeam Lighting Co. Diffuser holder for ceiling light fixtures. 3,142,447, 7–28–64, Cl. 240—147.
Bodian, Marcus. Light diffuser. 3,163,367, 12–29–64, Cl. 240—106.
Bodin, Milton, and L. Zinn. Pulse time decoder. 3,158,837, 11–24–64, Cl. 340—167.
Bodine, Albert G. Sonic well pump with lateral vibration dampener. 3,121,395, 2–18–64, Cl. 103—76.
Bodine, Albert G. Acoustic method for extracting hydrocarbon constituents from oil-sands. 3,123,546, 3–3–64, Cl. 208—11.
Bodine, Albert G. Method of making shaft joint utilizing gyratory vibrations. 3,142,901, 8–4–64, Cl. 29—525.
Bodine, Albert G. Method of making shaft joint. 3,145,467, 8–25–64, Cl. 29—525.
Bodine, Albert G. Pressurized degasification of crude oil by sonic wave action. 3,151,958, 10–6–64, Cl. 55—15.
Bodine, Albert G. Apparatus for generating and transmitting sonic vibrations. 3,153,530, 10–20–64, Cl. 259—1.
Bodine, Albert G. Sonic earth boring drill with elastic fluid resonator. 3,163,240, 12–29–64, Cl. 175—56.
Bodine, Albert G., Jr. Method and apparatus for transmitting sonic vibrations into liquid bodies. 3,123,043, 3–3–64, Cl. 116—137.
Bodine, Albert G., Jr. Tubing coupling for sonic pump. 3,124,076, 3–10–64, Cl. 103—43.
Bodine, Albert G., Jr., and E. A. von Seggern; said von Seggern assor. to said Bodine. Sonic dental tool. 3,124,878, 3–17–64, Cl. 32—26.
Bodine, Albert G., Jr. System for pumping from sandy wells with sonic pump. 3,127,842, 4–7–64, Cl. 103—1.
Bodine, Albert G., Jr. Method and apparatus for creating a load bearing region in earthen material. 3,130,552, 4–28–64, Cl. 61—36.
Bodine, Albert G., Jr. Rock crushing apparatus with sonic wave action. 3,131,878, 5–5–64, Cl. 241—262.
Bodine, Albert G., Jr. Sonic laundering machine. 3,134,990, 6–2–64, Cl. 8—159.
Bodine, Albert G., Jr. Suspension system for sonic well drill or the like. 3,139,146, 6–30–64, Cl. 175—56.
Bodine, Albert G., Jr. Method and apparatus for pumping fluids by oscillatory impeller action. 3,143,970, 8–11–64, Cl. 103—80.
Bodine, Albert G., Jr. Multiple vane angularly oscillatory pump. 3,152,549, 10–13–64, Cl. 103—80.
Bodine, Albert G., Jr. Acoustic method and apparatus for loosening and/or longitudinally moving stuck objects. 3,152,642, 10–13–64, Cl. 166—46.
Bodine, Albert G., Jr. Method and apparatus for sonic jarring with reciprocating mass oscillator. 3,155,163, 11–3–64, Cl. 166—46.
Bodine, Oliver K., to Phillips Petroleum Co. Drilling mud and method of use. 3,150,726, 9–29–64, Cl. 175—72.
Bodley, Robert W., to Union Tank Car Co. Floating roof construction. 3,134,501, 5–26–64, Cl. 220—26.
Bodner, Charles H. Micrometer calipers. 3,154,860, 11–3–64, Cl. 33—148.
Boduroff, Lultcho, and H. J. Meheen, to B & M Prestress Corp. Wedge anchor for tensioning and anchoring wires. 3,123,879, 3–10–64, Cl. 24—122.6.
Body, Alfred C.: *See*—
Roberts, Bruce. 3,142,876.
Boecher, William R. Portable electric space heater. 3,139,516, 6–30–64, Cl. 219—341.
Boeck, Ellsworth R., and R. J. Walter, to Truck Equipment Co., Inc. Refuse compacting vehicle body. 3,148,786, 7–21–64, Cl. 73—517.
Boeckeler, Benjamin C., to Kennametal, Inc. Shaping cemented hard metal carbide compositions. 3,147,542, 9–8–64, Cl. 29—182.7.
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Nigrelli, Biagio J., Standley, Wittmann, and Boeckmann. 3,141,274.
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Boehly, Michael A., and H. Pitlik, to General Dynamics Corp. Means for generating warbling tone ringing signals in a time division multiplex communication system. 3,146,314, 8–25–64, Cl. 179—84.
Boehm, Arnold H. Continuous casting and forming process. 3,147,521, 9–8–64, Cl. 22—200.1.
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Boehm, Arthur S., R. H. Riley, Jr., and H. O. Short, to The Black and Decker Mfg. Co. Masonry drilling apparatus. 3,144,912, 8–18–64, Cl. 175—213.
Boehm, Benjamin F., and C. D. Simmons, to General Motors Corp. Condition indicating system. 3,155,952, 11–3–64, Cl. 340—244.
Boehm, John F., and D. F. Corsette, to The Drackett Co. Dispensing device. 3,129,854, 4–21–64, Cl. 222—383.
Boehm, Josef, to United States of America, National Aeronautics and Space Administration. Gravity device. 3,141,340, 9–15–64, Cl. 214—82.
Boehm, Walter G., to Jervis B. Webb Co. Transfer apparatus for coil conveyors and the like. 3,150,759, 9–29–64, Cl. 198—27.
Boehme, Charles F., and R. J. Voris, to Universal Oil Products Co. Flywheel air pump. 3,116,596, 1–7–64, Cl. 60—30.
Boehme, Herman F., to Loewy Machinery Supplies Co., Inc. Grinding apparatus. 3,156,072, 11–10–64, Cl. 51—32.
Boehme, Werner R., to Ethicon, Inc. Mono-alkali metal bisulfites of dialdehydes. 3,149,152, 9–15–64, Cl. 260—513.
Boehmer, Andrew P., and B. M. Jaremus, to Borg-Warner Corp. Thermoelectric dehumidifier and reheater. 3,126,710, 3–31–64, Cl. 62—3.
Boehmer, Andrew P., and B. M. Jaremus, to Borg-Warner Corp. Water chiller. 3,149,471, 9–22–64, Cl. 62—3.
Boehner, Ludwig G., to Ford Motor Co. Hydrostatic-mechanical power transmission mechanism. 3,132,534, 5–12–64, Cl. 74—687.
Boehner, Ludwig G., and W. Uhlmann, to Ford Motor Co. Rigid driven axle for motor vehicles. 3,116,804, 1–7–64, Cl. 180—75.
Boehner, Ludwig G., and A. Balbaschewski, to Ford Motor Co. Integrated power unit. 3,122,944, 3–3–64, Cl. 74—700.
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Freter, Kurt, Merz, and Zeile. 3,133,074.
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Schultz, Otto-Erich, Schneckenburger, and Seeger. 3,140,229.
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Griffith, Thomas W. 3,147,942.
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Hansen, Norman N. 3,127,484.
Hastings, Allan J. 3,151,947.
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McMurtrey, Lawrence J. 3,151,596.
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Vogt, Richard. 3,149,602.
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Boelter, Ronald R., to R. R. Boelter Co., Inc. Method and apparatus for producing a starter culture for making cheese and the like. 3,117,009, 1–7–64, Cl. 99—116.

Boening, Wilfred L. Cover for drain tile joints. 3,122,888, 3–3–64, Cl. 61—11.

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Boensel, Donald W., to Space-General Corp. Transistorized switching circuit. 3,155,963, 11–3–64, Cl. 340—347.

Boepple, Otto H., to Kenyon Instrument Co. Inc. Magnetic instrument. 3,142,122, 7–28–64, Cl. 33—222.

Boer, George: *See*—
True, Martin E., and Boer. 3,118,283.

Boerio, Alvin H., to Westinghouse Electric Corp. Solid state infrared detector cell with means to discriminate between the spectral bands in the infrared spectrum. 3,161,773, 12–15–64, Cl. 250—83.3.

Boertlein, Paul L., Sr., and E. L. Fowler, Jr. Article holders. 3,122,854, 3–3–64, Cl. 43—57.5.

Boes, David J., and J. H. Freeman, to Westinghouse Electric Corp. Damping and flotation fluid. 3,129,186, 4–14–64, Cl. 252—78.

Boesch, Francis T., D. H. Nash, and L. Schenker, to Bell Telephone Laboratories, Inc. Multifrequency signal receiver. 3,128,349, 4–7–64, Cl. 179—84.

Boesl, Martin W., and R. W. Johnson. Selective push-button electric switch device. 3,118,025, 1–14–64, Cl. 200—5.

Boettger, Harold E.: *See*—
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Dupre, Jean, and Boettner. 3,145,180.

Boettner, Fred E., and J. Dupré, to Rohm & Haas Co. Tert.-carbinamine polyoxyalkylene surface-active agents. 3,117,-999, 1–14–64, Cl. 260—584.

Boettner, Joseph L., to K. C. Construction Supply Co. Concrete forms and system. 3,123,887, 3–10–64, Cl. 25—131.

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Bogaerts, Leo C., to Ammco Tools, Inc. Abrasive belt retaining assembly. 3,118,259, 1–21–64, Cl. 51—181.

Bogan, Robert W., E. E. Brinning, and M. C. Goodwin, to Burroughs Corp. Combination calculating and punching machine. 3,117,720, 1–14–64, Cl. 235—60.13.

Bogart Mfg. Corp.: *See*—
Lapidus, Solomon, and Sheldon. 3,153,129.

Bogdan, Andrew A. Fly cutters with micrometrical adjustment. 3,130,610, 4–28–64, Cl. 77—77.

Bogdan, Charles A., Jr., F. C. Fitzgerald, and R. W. Jones, to International Business Machines Corp. Clamp circuit with a shunt unilateral discharge path. 3,159,751, 12–1–64, Cl. 307—88.5.

Bogeaus, Benedict E. Strip embossing implement. 3,129,800, 4–21–64, Cl. 197—6.7.

Bogert, Clayton. Slitting machine. 3,148,570, 9–15–64, Cl. 82—53.

Bogert, Walter J., Jr. Automobile repair apparatus. 3,149,-659, 9–22–64, Cl. 153—32.

Boggess, Alpheus G., and H. W.; said A. G. Boggess assor. to said H. W. Connector for fishing tackle. 3,122,803, 3–3–64, Cl. 24—73.

Boggess, Hellen W.: *See*—
Boggess, Alpheus G. and H. W. 3,122,803.

Boggild, Robert, and W. L. Dale. Extruder. 3,157,933, 11–24–64, Cl. 25—11.

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Boggs, Alben C., to Edwin L. Wiegand Co. Electric resistance heating elements. 3,134,956, 5–26–64, Cl. 338—273.

Boggs, Brian F., and S. S. Laifman, to North American Aviation, Inc. Pyrotechnic igniter. 3,125,025, 3–17–64, Cl. 102—28.

Boggs, Herbert D., and F. L. Magoon, Jr. Mandrel for the casting of pipe. 3,148,414, 9–15–64, Cl. 18—45.

Boggs, Le Roy R., to Universal Moulded Fiber Glass Corp. Apparatus for making elongated shapes composed of fiber reinforced plastics. 3,151,354, 10–6–64, Cl. 18—4.

Boghosian, Malcolm P., to Allergan Pharmaceuticals, Inc. Re-epithelization process. 3,150,045, 9–22–64, Cl. 167—59.

Bogikes, Paul W., to Courtland Laboratories. Blood supply collection vial and stopper. 3,118,557, 1–21–64, Cl. 215—47.

Bogle, Robert W., to United States of America, Navy. Microwave superregenerative pulse radar. 3,149,327, 9–15–64, Cl. 343—13.

Bognar, Charles J., to The Yoder Co. Method of severing tubes and reforming deformed portion caused by severing action. 3,145,462, 8–25–64, Cl. 29—417.

Bogner, Peter, deceased, by E. S. Foltz, Jr., administrator. Containers and openers therefor. 3,139,211, 6–30–64, Cl. 220—48.

Bogner, Philip W.: *See*—
Osmundsen, Norman K., and Bogner. 3,153,127.

Bogoff, Stanley, and P. Meyers. Signal apparatus. 3,134,-089, 5–19–64, Cl. 340—44.

Bogopolsky, Raphaël. Automatic regulating device for the lighting of a photo-sensitive film during filming. 3,116,673, 1–7–64, Cl. 95—64.

Bogot, Alexander, to Combustion Engineering, Inc. Method and apparatus for controlling the air supply to a pulverized coal firing system. 3,121,409, 2–18–64, Cl. 110—106.

Bogot, Alexander, L. J. Andresen, and T. B. Hamilton, to Combustion Engineering, Inc. Pulverizing bowl mill utilizing a segmented bull ring. 3,138,337, 6–23–64, Cl. 241—103.

Bogotch, Stanley E., and C. E. Cook, to Sperry Rand Corp. Automatic gain control system using signal suppression. 3,162,801, 12–22–64, Cl. 323—66.

Bogren, Alfred E., to Continental Can Co., Inc. Corrugated container for books. 3,160,344, 12–8–64, Cl. 229—40.

Bogue, Irving R., and F. M. Pasborg, to The J. M. Ney Co. Method of making circuit components. 3,131,103, 4–28–64, Cl. 156—3.

Bogue, Wilbur W., to R. R. Donnelley & Sons Co. Transfer apparatus for books. 3,122,230, 2–25–64, Cl. 198—35.

Bogusz, John F., and L. Gugliotti, to Philco Corp. Simulated high-Q inductor. 3,152,309, 10–6–64, Cl. 333—80.

Bohannon, William D., Jr., to Western Electric Co., Inc. Apparatus for winding strands on elongated members. 3,142,450, 7–28–64, Cl. 242—9.

Bohanon, Hoy P., to Acme Engineering and Mfg. Corp. Centrifugal blower wheel. 3,144,204, 8–11–64, Cl. 230—134.

Bohle, Friedrich: *See*—
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Bohlen, Charles I.: *See*—
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Bohler, Gebr. & Co. Aktiengesellschaft: *See*—
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Kaesmacher, Peter. 3,139,514.

Bohler, Hans, and F. Kehrer, to Sandoz Ltd. Substituted quinacridine-12,14-diones and the production thereof. 3,124,581, 3–10–64, Cl. 260—279.

Bohlin, Edward H. Saddletree with swingable stirrup strap support. 3,153,887, 10–27–64, Cl. 54—37.

Bohlin, Nils I., to Aktiebolaget Volvo. Safety belt device for vehicles. 3,147,995, 9–8–64, Cl. 297—385.

Bohme Fettchemie G.m.b.H.: *See*—
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Frotscher, Herbert. 3,163,556.
Goldann, Karl. 3,120,552.
Gotte, Ernst, and Kirstahler. 3,155,470.
Wedell, Hans. 3,122,504.

Bohmer, Charles S., to Railway Car Equipment Co. Rear oil seal for journal boxes. 3,116,933, 1–7–64, Cl. 277—174.

Bohmer, Charles S., to Railway Car Equipment Co. Journal control. 3,154,354, 10–27–64, Cl. 308—40.

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Kaufman, Arthur L. 3,146,100.

Bohn, Donald I., to I-T-E Circuit Breaker Co. Self-adjusting brake. 3,162,276, 12–22–64, Cl. 188—152.

Bohn, Erik V., to Her Majesty the Queen in the right of Canada, as represented by the Minister of National Defense. Pulse position analog computer. 3,131,296, 4–28–64, Cl. 235—176.

Bohn, Ralph M., R. L. Wiseman, and C. E. Johnson. Pie dough and method for producing same. 3,149,979, 9–22–64, Cl. 99—94.

Bohn, Samuel. Frame assembly for defining an opening for use in cabinet construction. 3,131,793, 5–5–64, Cl. 189—75.

Bohn, Samuel. Handle construction. 3,156,944, 11–17–64, Cl. 16—111.

Bohner und Kohle Maschinenfabrik: *See*—
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Bohner, Walter A., and J. S. Edstam, to General Motors Corp. Inflatable closure apparatus. 3,151,663, 10–6–64, Cl. 160—84.

Bohner, William R.: *See*—
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Bohnet, Emil. Stop attachment for metal lathes. 3,124,025, 3–10–64, Cl. 82—34.

Bohnhoff, Richard J.: *See*—
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Bohnsack, John A., to The E. F. Hauserman Co. Movable partition construction. 3,120,031, 2–4–64, Cl. 20—4.

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Boies, David B., and A. J. Freedman, to Nalco Chemical Co. Cooling water test unit. 3,141,324, 7–21–64, Cl. 73—53.

Boies, David B., J. L. Gerlach, L. C. Larsonneur, and J. I. Bregman, to Nalco Chemical Co. Aqueous cooling solution and method of inhibiting corrosion in cooling system. 3,147,223, 9–1–64, Cl. 252—75.

Bolge, Jean, and R. Cote. Process for the industrial manufacture of hydroxocobalamin. 3,138,583, 6–23–64, Cl. 260—211.5.

Boinnard, Michel R., to Service d'Exploitation Industrielle des Tabacs et des Allumettes. Collecting mechanism for cigarettes or other rod-shaped articles. 3,137,110, 6–16–64, Cl. 53—236.

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Boiten, Egbert H.: *See*—
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Boiten, Egbert H., to Nederlandse Organisatie voor Toegepast-Natuurwetenschappeljik Onderzoek ten Behoeve van Nijverheld. Handel en Verkeer. Adjustable magnetic flux-source. 3,157,848, 11–17–64, Cl. 336—110.

Boitos, Emil G., to Detroit Gravure Corp. Process and apparatus for preparing rotogravure plates. 3,121,037, 2–11–64, Cl. 156—14.

Boivie, Jean I. R.: *See*—
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Boivie, Jean I. R., and P. T. B. Hillbom, to Electrolux, Aktiebolaget. Apparatus for removably mounting on a drive shaft a part driven by the shaft. 3,146,007, 8–25–64, Cl. 287—53.

Bojanowski, Carl, to Abitibi Power & Paper Co., Ltd. Method of producing hardboard in predetermined shapes and a mat used in such method. 3,120,466, 2–4–64, Cl. 162—164.

Bojarski, Norbert N., to L. R. Power Corp. Variable voltage transformer. 3,152,311, 10–6–64, Cl. 336—132.

Bojarski, Norbert N., to L. R. Power Corp. Variable voltage transformer. 3,154,756, 10–27–64, Cl. 336—133.

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Bok, Edward: *See*—
Bok, Hendrik F. and E. 3,141,938.

Bok, Edward. Tape applying to flat bags. 3,131,613, 5–5–64, Cl. 93—8.

Bok, Hendrik F. and E. Control device for evaporation vessel having a deformable float. 3,141,938, 7–21–64, Cl. 200—84.

Boka, Victor P., Jr., to Purex Corp., Ltd. Spray nozzle. 3,142,306, 7–28–64, Cl. 134—166.

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Bokun, George J. Fishing lures. 3,159,940, 12–8–64, Cl. 43—35.

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Boland, Joseph P.: *See*—
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Bolchalk, Edward J., ½ to D. G. Williams. Mounting clamp for ceiling outlet boxes. 3,127,047, 3–31–64, Cl. 220—3.6.

Boldebuck, Edith M.: *See*—
Day, Harold R., Jr., Boldebuck, and Eustance. 3,136,441.

Bolden, Charles E. Case and slide rule holder thereon. 3,133,631, 5–19–64, Cl. 206—16.

Boldt, Heinz, to Borsig Aktiengesellschaft. Free piston compressor system with double acting compressor piston. 3,159,-330, 12–1–64, Cl. 230—56.

Boldt, Heinz, A. Krause, and H. Nink, to Borsig Aktiengesellschaft. Multi-stage free piston type compressor. 3,159,331, 12–1–64, Cl. 230—56.

Bolenbach, Adolf. Gang saw for improved tongue and groove joints for flooring. 3,125,138, 3–17–64, Cl. 143—38.

Boles, Arthur F. Electrostatic precipitating device. 3,157,-479, 11–17–64, Cl. 55—146.

Bolesky, Richard C., and J. M. Broadhurst, to United States Rubber Co. Method and apparatus for making cushioned articles. 3,146,143, 8–25–64, Cl. 156—212.

Bolger, James W., to Riker Laboratories, Inc. N-(amidoximo alkyl)-endo-perhydro - 4,7 - methanoisoindoles. 3,118,904, 1–21–64, Cl. 260—319.

Bolger, James W., to Riker Laboratories, Inc. N-(haloalkyl)-endo-perhydro-4,7-methanoisoindoles. 3,118,905, 1–21–64, Cl. 260—319.

Bolger, James W., to Riker Laboratories, Inc. N-(cyanoalkyl) - endo - perhydro-4,7-methanoisoindoles. 3,124,594, 3–10–64, Cl. 260—319.

Bolger, James W., to Riker Laboratories, Inc. N-(pseudothiouronium lower alkyl)-endo-perhydro-4,7-methanoisoindoles. 3,124,595, 3–10–64, Cl. 260—319.

Bolger, John G., Jr., to Dovan Labs., Inc. Flash lamp and photocell operated bowling pin sensing device. 3,140,872, 7–14–64, Cl. 273—54.

Bolger, Stephen J. Device for dispersing volatile materials. 3,120,345, 2–4–64, Cl. 239—52.

Bolgiano, Nicholas C., to Koppers Co., Inc. Polymers of dichloroalkyl benzene and a phenol and process of preparing same. 3,137,677, 6–16–64, Cl. 260—61.

Bolhofer, William A., and J. M. Sprague, to Merck & Co., Inc. 2-dialkylaminoalkoxy-6-substituted naphthalenes useful as new anti-cholesteremic agents. 3,139,430, 6–30–64, Cl. 260—247.7.

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Bolie, Victor W., to Collins Radio Co. System for improving F.M.-doppler radar. 3,123,825, 3–3–64, Cl. 343—14.

Bolie, Victor W., to Iowa State University Research Foundation, Inc. Blood pressure detector. 3,149,628, 9–22–64, Cl. 128—2.05.

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Bolinger, George N., to Sta-Rite Ginnie Lou, Inc. Hair curler with embedded brush means. 3,160,163, 12–8–64, Cl. 132—41.

Bolkcom, Wilbur T., and W. E. Knapp. Method of treating steel. 3,158,913, 12–1–64, Cl. 22—215.

Bolkow-Entwicklungen Kommanditgesellschaft: *See*—
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Bölkow, Ludwig, and Haberkorn. 3,155,342.
Derschmidt, Hans. 3,131,486.
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Bölkow, Ludwig, and E. Haberkorn, to Bölkow-Entwicklungen Kommanditgesellschaft. VTOL aircraft construction. 3,155,342, 11–3–64, Cl. 244—12.

Bölkow, Ludwig, W. Oelschig, and L. Körner, said Oelschig and said Körner assors. to L. Bölkow. Device for washing articles, such as dishes, employing a rotary liquid spray frame. 3,162,205, 12–22–64, Cl. 134—180.

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Boller, Arthur, A. Fürst, E. G. Herzog, H. Schmid, and R. Barner, to Hoffmann-La Roche Inc. 10-alkenyl-steroids and process therefor. 3,127,427, 3–31–64, Cl. 260—397.3.

Boller Development Corp., The: *See*—
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Boller, Ernest R., to The Boller Development Corp. Method of producing a laminated structure. 3,123,908, 3–10–64, Cl. 29—471.1.

Boller, Henry A., to ACF Industries Inc. Carburetor. 3,120,-841, 2–11–64, Cl. 123—119.

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Bolleter, William T., to Monsanto Chemical Co. Process for purification of acrylonitrile. 3,117,988, 1–14–64, Cl. 260—465.9.

Bollin, Robert S., to Toledo-Beaver Tools, Inc. Apparatus for preparing tubing for a sweated joint. 3,146,526, 9–1–64, Cl. 29—564.
Bolling, Robert S., and G. D. Plant, to Kaiser Steel Corp. Latch mechanism for container bottom discharge door. 3,152,824, 10–13–64, Cl. 292—216.
Bollinger, Daniel H., Jr. Safety seat belt device. 3,126,227, 3–24–64, Cl. 297—385.
Bollinger, Frederick W., D. F. Reinhold, and M. Sletzinger, to Merck & Co., Inc. Preparation of O,O-dialkanoyl derivatives of D-L-α-alkyl-β-3,4-dihydroxyphenyl alanine by preferential acylation. 3,132,176, 5–5–64, Cl. 260—479.
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Bollman, Ralph R., to The Cincinnati Milling Machine Co. Automatically indexed tool turret. 3,158,920, 12–1–64, Cl. 29—35.5.
Bollmeier, Emil W., to Minnesota Mining and Mfg. Co. Container. 3,134,577, 5–26–64, Cl. 259—71.
Bollmeier, Emil W., to Minnesota Mining and Mfg. Co. Method of making a cable connection. 3,150,221, 9–22–64, Cl. 264—278.
Bollum, Carl W., Sr., to Carwil Enterprises, Inc. Ground effect vehicle with steering and propelling means. 3,153,461, 10–20–64, Cl. 180—7.
Bollyky, Laszlo, S. M. Davis, and J. P. Dundon, to American Cyanamid Co. Sulfone inhibitors in aromatic sulfonations. 3,133,117, 5–12–64, Cl. 260—505.
Bolmes, Henry G., A. L. Fulton, and B. R. Weber, to The Fulton Co. Trailer coupling. 3,153,545, 10–20–64, Cl. 280—512.
Bolmgren, Lester N., to Honeywell Inc. Burner control apparatus. 3,150,709, 9–29–64, Cl. 158—28.
Bolomey, René A., H. A. Miller, and L. M. Greenstein, to Francis Earle Laboratories, Inc. Method for preparing nacreous pigments. 3,123,489, 3–3–64, Cl. 106—291.
Bolomey, René A., H. A. Miller, and L. M. Greenstein, to Francis Earle Laboratories, Inc. Nacreous pigment and method for preparing same. 3,123,490, 3–3–64, Cl. 106—291.
Bolstad, Archibald, N., to Minnesota Mining and Mfg Co. Polymerization process for unsaturated fluoroolefins. 3,163,628, 12–29–64, Cl. 260—87.5.
Bolster, Ronald H., to Clark Equipment Co. Transmission. 3,126,752, 3–31–64, Cl. 74—359.
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Bolt, Robert O., and W. W. Hanneman, to United States of America, Atomic Energy Commission. Irradiation method including the production of polyaromatic ethers. 3,123,534, 3–3–64, Cl. 176—39.
Bolt, William N. Pallet loading mechanisms. 3,142,389, 7–28–64, Cl. 214—6.
Bolt, William N. Pallet loading mechanisms. 3,157,294, 11–17–64, Cl. 214—6.
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Bolton, Benjamin A.: *See*—
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Bolton, Benjamin A., to Standard Oil Co. Solvent soluble baking type resins. 3,157,620, 11–17–64, Cl. 260—76.
Bolton, Benjamin A., and K. E. Kolb, to Standard Oil Co. Grease. 3,117,086, 1–7–64, Cl. 252—33.6.
Bolton, Benjamin A., and K. E. Kolb, to Standard Oil Co. Metal soaps of alkyl trimellitic-imide. 3,122,559, 2–25–64, Cl. 260—326.
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Danforth, Donald W. 3,148,839.
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Bolton, Marquis W., to United States of America, Air Force. Safe method for testing the electrically conductive firing element of an explosive device by rotating and counterrotating a portable galvanometer. 3,153,757, 10–20–64, Cl. 324—51.
Bolton, Norman A., to General Signal Corp. Bi-directional multiple lane vehicle registering system. 3,141,612, 7–21–64, Cl. 235—99.
Bolton, Ora, Jr., and C. Wade. Locking cleat. 3,145,684, 8–25–64, Cl. 114—218.
Bolton, Robert H., to Sperry Rand Corp. Anisoelasticity compensator for gyroscopic instruments. 3,129,593, 4–21–64, Cl. 74—5.
Bolton, Wilbur M.: *See*—
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Boltz, George F., and J. H. Bornzin, to International Harvester Co. Air pre-cleaning apparatus. 3,123,456, 3–3–64, Cl. 55—492.
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Bolz, Bernhart A., and H. A. Morrill, to B. H. Bunn Co. Support means for tying machine. 3,149,558, 9–22–64, Cl. 100—8.
Boman, Karl G., and K. B. V. Annerhed, to Sandvikens Jernverks Aktiebolag. Safety landing for passenger conveyors and moving sidewalks. 3,132,733, 5–12–64, Cl. 198—16.
Bombardier, Germain. Trailer for endless track vehicle. 3,149,738, 9–22–64, Cl. 214—506.
Bomberger, John C., to Lukens Steel Co. Fabrication of solid sheet packs. 3,150,436, 9–29–64, Cl. 29—19.
Bomboy, James E.: *See*—
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Bombrini Parodi-Delfino Societa per Azioni: *See*—
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Bonamy, Robert P. Tide operated water lifting device. 3,122,889, 3–3–64, Cl. 61—20.
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Bonanno, Ernest J., to Automatic Electric Laboratories, Inc. Automatic number identification. 3,124,656, 3–10–64, Cl. 179—18.
Bonanno, Ernest J., to Automatic Electric Laboratories, Inc. Special service toll telephone system. 3,133,153, 5–12–64, Cl. 179—7.1.
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Bonanno, Joseph L., to W. E. Heller & Co., Inc. Toy railroad track switches. 3,126,179, 3–24–64, Cl. 246—231.
Bonanno, Joseph L., and D. L. Crosman, to W. E. Heller & Co., Inc. Toy railway dump car and actuator. 3,126,668, 3–31–64, Cl. 46—40.
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Bonavera, Victor. Rotor type power generating or work performing means. 3,117,561, 1–14–64, Cl. 123—8.
Bonazza, Saverio J. Toy gun with slidable chamber. 3,151,411, 10–6–64, Cl. 42—55.
Bond, Beverly, to Ronson Corp. Electric head construction with movable slide cover. 3,143,796, 8–11–64, Cl. 30—34.
Bond, Frank D., Jr., J. M. Canty, and J. A. Paivanas, to Union Carbide Corp. Vacuum-insulated valved coupling. 3,152,452, 10–13–64, Cl. 62—45.
Bond, George R., Jr., to Air Products and Chemicals, Inc. Kaolin cracking catalysts having improved oxidizing characteristics. 3,153,635, 10–20–64, Cl. 252—432.
Bond, Gordon V., to Microcell Ltd. Rotary stepping mechanisms. 3,143,674, 8–4–64, Cl. 310—37.
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Russell, Robert G., and Bond. 3,160,037.
Bond, Herbert M.: *See*—
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Bond, Herbert M., and W. P. Smith, to Minnesota Mining and Mfg. Co. Pressure-sensitive adhesive tape with plasticized polyvinyl chloride backing. 3,129,816, 4–21–64, Cl. 206—59.
Bond, Jack B., R. J. Gasparac, and H. Balmer, to Nordberg Mfg. Co. Locking mechanism for cone crushers and the like. 3,133,708, 5–19–64, Cl. 241—290.
Bond, Jack B., and O. C. Gruender, to Nordberg Mfg. Co. Replaceable wearing parts for crushers with tilting bowls. 3,151,817, 10–6–64, Cl. 241—290.
Bond, Joseph M., to Polarpane Corp. Combined blind and window unit. 3,153,819, 10–27–64, Cl. 20—56.5.
Bond, Milton, E. Stotter, and J. Weitz, to Scott & Williams, Inc. Circular knitting machine for knitting pile fabrics. 3,124,944, 3–17–64, Cl. 66—9.
Bonde, James R., to Accurate Wire Forming Inc. Crate fastener. 3,154,828, 11–3–64, Cl. 24—261.
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Bondley, Ralph J., to General Electric Co. Composite bodies and method of making. 3,138,228, 6–23–64, Cl. 189—36.5.
Bondley, Ralph J., to General Electric Co. Vacuum tight electromagnetic radiation permeable window seal. 3,156,881, 11–10–64, Cl. 333—98.
Bondley, Ralph J., to General Electric Co. Vacuum Tight electromagnetic radiation permeable window seal. 3,156,882, 11–10–64, Cl. 333—98.
Bondon, Lewis A. Coaxial transmission line utilizing reactance compensated, paired pin-type insulator spacing assembly. 3,151,925, 10–6–64, Cl. 333—96.
Bone, Miroslav. Centerboard control device. 3,139,851, 7–7–64, Cl. 114—132.
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Bonfield, John H., to Allied Chemical Corp. Purification of nitrocyclohexane. 3,126,418, 3–24–64, Cl. 260—644.

Bonfield, John H., to Allied Chemical Corp. Vapor phase nitration of cyclohexane. 3,133,123, 5–12–64, Cl. 260—644.

Bonfield, John H., to Allied Chemical Corp. Multi-stage nitration of cyclohexane. 3,133,124, 5–12–64, Cl. 260—644.

Bonfiglio, Anthony. Shorting means for ignition systems. 3,156,795, 11–10–64, Cl. 200—61.52.

Bonfiglioli, Gianpaolo: *See*—
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Bongard, Mathieu, to Stamicarbon N.V. Urea preparation. 3,120,563, 2–4–64, Cl. 260—555.

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Bongiovanni, John C. Production of strip or sheet stock from molten metals. 3,146,525, 9–1–64, Cl. 29—528.

Bongiovanni, John C., H. O. Hill, C. T. Whitacre, and C. H. Anderson, Jr., to Hyde Park Foundry and Machine Co. Expandable tension reel. 3,128,958, 4–14–64, Cl. 242—72.1.

Bongiovanni, John P. Masonry guides. 3,130,500, 4–28–64, Cl. 33—85.

Bonham, Don L. Electrical vibrato and tremolo devices. 3,146,292, 8–25–64, Cl. 84—1.25.

Bonham, Don L. Electrical music system. 3,160,695, 12–8–64, Cl. 84—1.25.

Bonheimer, Howard P.: *See*—
Clemens, Ogden A., Bonheimer, and Trombly. 3,122,-989.

Bonhomme, Francois R., to Curtiss-Wright Corp. Electric couplings. 3,214,723, 7–21–64, Cl. 339—252.

Boni, Frank, Jr., P. S. Otten, and D. L. Hummel, to Baldwin-Lima-Hamilton Corp. Heat exchanger construction. 3,126,949, 3–31–64, Cl. 165—158.

Boniface, George B.: *See*—
Stanton, Arthur J. Anderson and Boniface. 3,152,511.

Bonin, George E., to Corning Glass Works. Method and apparatus for machining lip edge portions of a vessel. 3,160,-994, 12–15–64, Cl. 51—161.

Bonin, Lawrence G., and G. F. Bowden, to Symons Mfg. Co. Concrete wall form panel with oversized panel facing. 3,137,909, 6–23–64, Cl. 25—131.

Bonino, Cesare: *See*—
Chain, Ernst B., Bonino, and Tonolo. 3,162,640.

Bonkowski, Teofil L., and B. V. Curry, Jr., ⅛ to A. B. Willis. Multiple packaging. 3,134,485, 5–26–64, Cl. 206—65.

Bonmartini, Giovanni. Pneumatic track device for track laying vehicles. 3,146,035, 8–25–64, Cl. 305—11.

Bonmartini, Giovanni. Pneumatic tubular track, driving and carrying device. 3,155,436, 11–3–64, Cl. 305—13.

Bonn, Theodore H., to Sperry Rand Corp. Magnetic amplifier circuit having a plurality of control inputs. 3,153,150, 10–13–64, Cl. 307—88.

Bonnefois, Jean A. G., to Compagnie Generale d'Electricite. Electric interrupting device notably for polyphase limiting circuit breakers. 3,154,657, 10–27–64, Cl. 200—147.

Bonnell, Alfred, Jr., and W. F. Rossiter, to Eltra Corp. Adjustable control system. 3,129,605, 4–21–64, Cl. 74—501.

Bonnell, George N., and R. A. Barr, to Midland-Ross Corp. Apparatus for the continuous feeding of strandular material. 3,128,026, 4–7–64, Cl. 226—11.

Bonnelly, Rafael D. Combined bumper and bottle opener. 3,125,368, 3–17–64, Cl. 293—69.

Bonnelly, Rafael D. Twin ball toy with means for adjusting the balls along the length of a cord. 3,157,962, 11–24–64, Cl. 46—52.

Bonner, Charles W., Jr., and C. T. Houck, to The Cardwell Machine Co. Tobacco threshing machine. 3,126,014, 3–24–64, Cl. 131—145.

Bonner, Charles W., Jr., and C. T. Houck, to The Cardwell Machine Co. Tobacco shredder. 3,141,485, 7–21–64, Cl. 146—117.

Bonner, Eugene F., to Union Carbide Corp. Continuous process for polymerizing polyethylene. 3,136,747, 6–9–64, Cl. 260—94.9.

Bonner, Francis J., and D. A. Reed, to Socony Mobil Oil Co., Inc. Lubricating oil composition of improved low-temperature detergency. 3,123,570, 3–3–64, Cl. 252—32.7.

Bonner, James W. Well apparatus setting tool. 3,160,209, 12–8–64, Cl. 166—63.

Bonner, William J., to Crompton & Knowles Corp. Sheet extrusion die. 3,118,179, 1–21–64, Cl. 18—12.

Bonness, Donald J.: *See*—
Wheelwright, Edward H., Bonness, McDonald, and Curtis. 3,120,183.

Bonnet, Georges, J. L. Laffon, and P. Servoz-Gavin, to Commissariat a l'Energie Atomique. Enhanced polarization nuclear free precession magnetometer. 3,133,243, 5–12–64, Cl. 324—.5.

Bonnet, Georges, and A. Salvi, to Commissariat a l'Energie Atomique. Apparatus for measuring magnetic fields. 3,145,336, 8–18–64, Cl. 324—.5.

Bonnet, Robert E., to Engelhard Industries, Inc. Pressure seal. 3,133,738, 5–19–64, Cl. 277—112.

Bonnet, Yannik: *See*—
Fournet, Andre, Ruaud, and Bonnet. 3,161,626.

Bonnevier, Bjorn K. J.: *See*—
Lehnert, Bo P., and Bonnevier. 3,155,594.

Bonney Forge & Tool Works: *See*—
Peters, Edwin E. 3,145,594.

Bonnierforetagen, AB: *See*—
Pihl, Lennart. 3,132,041.

Bono, Luigi, to Necchi Societa per Azioni. Zig-zag sewing machines. 3,132,614, 5–12–64. Cl. 112—158.

Bono, Luigi, to Necchi Societa per Azioni. Programmed start and stop for a machine such as a sewing machine. 3,157,-261, 11–17–64, Cl. 192—142.

Bonomo, Melvin E., J. O. Bradford, and W. E. Zimmerman. Tractor-drawn and driven rotary cultivator. 3,136,373, 6–9–64, Cl. 172—60.

Bonrud, Leon O., to Minnesota Mining and Mfg. Co. Reproduction process. 3,127,332, 3–31–64, Cl. 204—18.

Bonrud, Leon O., to Minnesota Mining & Mfg. Co. Reproduction system. 3,127,333, 3–31–64, Cl. 204—18.

Bonrud, Leon O., to Minnesota Mining and Manufacturing Co. Reproduction process. 3,149,059, 9–15–64, Cl. 204—143.

Bonsall, Rodney T., Jr.: *See*—
Wilder, Perry W., Jr., and Bonsall. 3,140,257.

Bonsch, Francois R., to Block & Anderson Ltd. Cylinder mounting, adjusting and interrupting means for offset printing and like machines. 3,150,588, 9–29–64, Cl. 101—218.

Bonsignore, Charles: *See*—
Medoff, Irving, and Bonsignore. 3,127,857.
Medoff, Irving, and Bonsignore. 3,145,875.
Medoff, Irving, and Bonsignore. 3,151,586.

Bonsignore, Charles, to Emsig Mfg. Co. Distributor for disks. 3,145,827, 8–25–64, Cl. 198—33.

Bonsor, David V., to Interstate Bag Co., Inc. Carrier bags. 3,126,146, 3–24–64, Cl. 229—54.

Bontempi, Ignatius, to De Francisci Machine Corp. Container positioning apparatus. 3,149,713, 9–22–64, Cl. 198—24.

Bonura, John. Plastic bag machine. 3,137,455, 6–16–64, Cl. 242—56.

Bonvicini, Alberto, A. Monaci, and V. Cappuccio, to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Polypropylene articles peroxidized and grafted with acidic or basic unsaturated monomers and the production of said articles. 3,131,990, 5–5–64, Cl. 8—115.5.

Bonzi, Betty B. Detachable garment trim. 3,127,617, 4–7–64, Cl. 2—96.

Bood, Louris, to Mowid Anstalt. Centrifugal pump. 3,136,-258, 6–9–64, Cl. 103—87.

Bood, Louris, to Mowid Anstalt. Sump pump plant. 3,136,-259, 6–9–64, Cl. 103—87.

Booe, James M., W. D. Loftus, and R. E. Ralston, to P. R. Mallory & Co., Inc. Rechargeable battery with means to prevent overcharging. 3,148,322, 9–8–64, Cl. 320—43.

Booker, Finis E. Agricultural spray apparatus. 3,143,295, 8–4–64, Cl. 239—142.

Booker, James W. Crab shell cleaning machine. 3,142,939, 8–4–64, Cl. 51—14.

Bookhamer, James E.: *See*—
Weiss, Fred A., Jr., and J. E. and W. F. Bookhamer. 3,147,727.

Bookhamer, William F.: *See*—
Weiss, Fred A., Jr., and J. E. and W. F. Bookhamer. 3,147,727.

Bookman, Abe C. Liquid filled die agitator containing a die having raised indicia on the facets thereof. 3,119,621, 1–28–64, Cl. 273—145.

Bookmyer, Gerald R.: *See*—
Sharp, Robert M., and Bookmyer. 3,152,065.

Bookout, Floyd V., to L. W. Menzimer. Dispensing device. 3,146,907, 9–1–64, Cl. 221—67.

Bookout, Floyd V., and R. T. Pfluger, to Automatic Canteen Co. of America. Test means for paper and currency. 3,122,227, 2–25–64, Cl. 194—4.

Boon, Johannes W. Disc jacket. 3,162,355, 12–22–64, Cl. 229—68.

Boone, Arthur M.: *See*—
Adler, Franklin P., Boone, and Holloway. 3,159,285.

Boone, James E. Lawn mower work bench and test stand. 3,136,156, 6–9–64, Cl. 73—116.

Boone, James L., R. J. Brotherton, and L. L. Petterson, to United States Borax & Chemical Corp. Boron-carborane bonded compounds. 3,136,812, 6–9–64, Cl. 260—551.

Boone, James L., and R. J. Brotherton, to United States Borax & Chemical Corp. Boron-carborane bonded compounds. 3,136,813, 6–9–64, Cl. 260—551.

Boone, Jerry C., to Allis-Chalmers Mfg. Co. Hillside combine with specific axle structure. 3,160,221, 12–8–64, Cl. 180—41.

Boone, Jerry C., to Allis-Chalmers Mfg. Co. Ladder mounting for hillside combines. 3,160,423, 12–8–64, Cl. 280—165.

Boone, Joseph, to M. Berghgracht. Box adapted to contain a liquid or flowing material. 3,121,521, 2–18–64, Cl. 229—14.

Boone, Joseph, to M. Berghgracht. Device for continously forming a multiply tube. 3,146,685, C. 93—8.

Boone, Joseph E., and J. S. Hill, II, to Metrotek Electronics, Inc. Frequency selective signalling system. 3,123,675, 3–3–64, Cl. 179—87.

Boone, Stephen E., to United States of America, Navy. Vibra-pen scriber assembly. 3,125,401, 3–17–64, Cl. 346—140.

Boone, Wallace D., to Dover Corp. Safety cut-off for automatic dispensing valve. 3,126,925, 3–31–64, Cl. 141—209.

Boonstra, Bram B. S. T., to Cabot Corp. Polyethylene resin insulating material. 3,133,894, 5–19–64, Cl. 260—41.

Boop, John T., to Commercial Shearing & Stamping Co. Yieldable pit posts. 3,133,720, 5–19–64, Cl. 248—356.

Boor, Fred C. Sun protector for vehicles. 3,143,123, 8–4–64, Cl. 135—5.

Boor, John, Jr., to Shell Oil Co. Polymerization catalyst. 3,155,626, 11–3–64, Cl. 252—429.

Boor, John, Jr., O. Johnson, and K. Nozaki, to Shell Oil Co. Method for preparing zinc dialkyls suitable for use in polymerization catalysts. 3,144,473, 8–11–64, Cl. 260—429.9.

Boos, Alfred J.: *See*—
Calvert, Henry O., Boos, and Mullis. 3,128,592.

Boose, Raphael L.: *See*—
Belfiore, Samuel. Re. 25,611.

Booss, Theodore B.: *See*—
Riopelle, Earl F., and Booss. 3,146,988.

Boot, Reginald J., to General Electric Co. Process for making organopolysiloxanes using bromoalkane decatalyzing agents for excess alkali-metal catalysts. 3,153,007, 10–13–64, Cl. 260—46.5.

Boot, Reginald J., and A. Torkelson, to General Electric Co. Process for preparing linear silanol chain-stopped diorganopolysiloxanes. 3,132,167, 5–5–64, Cl. 260—448.2.

Booth, Archibald A. K., Jr.: *See*—
Hammond, Samuel I., Boyd, and Booth. 3,137,569.

Booth, Arthur J.: *See*—
Holliday, John H., Ketteringham, Newbold and Booth. 3,119,943.

Booth, Benjamin E. Sheet metal cutting machines. 3,126,780, 3–31–64, Cl. 83—500.

Booth, Charles H. Method of treating flue dust. 3,148,866, 9–15–64, Cl. 259—149.

Booth, Charles H., Sr. Method of treating flue dust. 3,134,579, 5–26–64, Cl. 259—149.

Booth, Clifford C.: *See*—
Maxwell, John W., Booth, and Duncan. 3,133,031.

Booth, Corwin: *See*—
Klein, Louis H. 3,141,639.

Booth, George M., to Wallace & Tiernan Inc. Pneumatic transmitting means for flowmeters. 3,143,881, 8–11–64, Cl. 73—209.

Booth, Gerald: *See*—
Berrie, Alistair H., and Booth. 3,117,117.

Booth, Gerald, G. T. Douglas, J. S. Hunter, and E. L. Johnson, to Imperial Chemical Industries Ltd. New azo dyestuffs. 3,139,422, 6–30–64, Cl. 260—158.

Booth, Gerald, and F. Hall, to Imperial Chemical Industries Ltd. Copper phthalocyanine dyestuffs containing (3′-chloro-2′-hydroxypropoxyphenyl)sulfamyl groups. 3,139,439, 6–30–64, Cl. 260—314.5.

Booth, Gerald, and D. P. Hudson, to Imperial Chemical Industries Ltd. Process for the coloration of cellulose textile materials with water-soluble reactive dyestuffs. 3,152,860, 10–13–64, Cl. 8—54.2.

Booth, Lendon W. Lawn edger. 3,126,968, 3–31–64, Cl. 172—16.

Booth, Lendon W. Lawnmower. 3,135,081, 6–2–64, Cl. 56—25.4.

Booth, Robert B.: *See*—
Hoffenberg, David S., and Booth. 3,150,119.

Booth, Robert B., and W. F. Linke, to American Cyanamid Co. Separating mineral fines with cationic polyacrylamides. 3,147,218, 9–1–64, Cl. 210—54.

Booth, Russell N., to Minneapolis-Honeywell Regulator Co. Adjustable temperature control apparatus. Re. 25,522, 2–18–64, Cl. 200—139.

Booth, Weldon S. Fastening means for flanges. 3,155,206, 11–3–64, Cl. 189—88.

Booth, William M. Valve-type metering dispenser. 3,134,514, 5–26–64, Cl. 222—207.

Booth, Wilmer T. Tonneau cover. 3,154,341, 10–27–64, Cl. 296—24.

Boothe, James H.: *See*—
Takesue, Edward, Hlavka, and Boothe. 3,138,529.
Takesue, Edward, Hlavka, and Boothe. 3,159,537.
Wilkinson, Raymond G., and Boothe. 3,146,264.

Boothe, James H., and J. Petisi, to American Cyanamid Co. Reductive alkylation process. 3,148,212, 9–8–64, Cl. 260—559.

Boothe, Willis A., to General Electric Co. Pure fluid logic circuitry for integrators and differentiators. 3,155,825, 11–3–64, Cl. 235—201.

Boothroyd, Brian: *See*—
Rhodes, Alan, Boothroyd, Fantes, McGonagle, and Crosse. 3,123,530.

Boothroyd, Howard W., to Sanders Associates, Inc. Cam operated microswitch actuator. 3,119,908, 1–28–64, Cl. 200—38.

Boothroyd, Raymond A., to Brown & Williamson Tobacco Corp. Apparatus for forming continuous cigarette rods with air channels. 3,118,453, 1–21–64, Cl. 131—66.

Boothroyd, Wilson P.: *See*—
Bloomsburgh, Ralph A., Boothroyd, and Moore. 3,163,794.

Boothroyd, Wilson P., to Philco Corp. Shift of color balance in indexing tube between monochrome and color reception. 3,135,824, 6–2–64, Cl. 178—5.4.

Boots, Jay S. to Textron Industries, Inc. Self-locking nut with sealing cap. 3,145,751, 8–25–64, Cl. 151—21.

Boots Pure Drug Co. Ltd.: *See*—
Benn, Frederick R., Charlton, and Harmer. 3,144,485.
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Fenton, Albert H. 3,123,528.
Hamill, John, and Smart. 3,160,555.
Lush, Gerald B., and Leafe. 3,151,970.
Macey, Peter E., and Oxley. 3,125,588.
Oxley, Peter. 3,160,626.
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Boozalis, Theodore S., and R. B. McKeever, to The Dow Chemical Co. Tri-bisphenol-A ester of phosphoric acid. 3,146,254, 8–25–64, Cl. 260—461.

Bopp-Decker Plastics, Inc.: *See*—
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Borah, John E. Power operated multiple press. 3,128,501, 4–14–64, Cl. 18—17.

Borah, John E. Press and mold operating apparatus. 3,129,462, 4–21–64, Cl. 18—16.

Borah, John E. Molded gasket with flexible metal insert. 3,135,520, 6–2–64, Cl. 277—235.

Boran, James F., to Container Corp. of America. Cushioned container for fragile articles. 3,116,866, 1–7–64, Cl. 229—31.

Borchers, George W., to Nordberg Mfg. Co. Evacuation system. 3,137,124, 6–16–64, Cl. 60—16.

Borchert, Peter J., to Miles Laboratories, Inc. Dialdehyde polysaccharide-phenol derivatives. 3,117,105, 1–7–64, Cl. 260—55.

Borchert, Peter J., to Miles Laboratories, Inc. Dialdehyde polysaccharide-polyacrylamide compositions. 3,117,949, 1–14–64, Cl. 260—73.

Bordeau, Robert L.: *See*—
Kruger, James B., and Bordeau. 3,126,126.

Bordeaux, Henry D., A. J. Gideonsen, R. E. Hasselbacher, and J. E. Jass, to Caterpillar Tractor Co. Multi-purpose bulldozing tractor and loader. 3,153,866, 10–27–64, Cl. 37—117.5.

Bordeaux, Jean, to Robertshaw Controls Co. Variable resistor. 3,159,805, 12–1–64, Cl. 338—106.

Bordelon, Sidney A., Jr., to Hughes Aircraft Co. Digital computer apparatus. 3,121,787, 2–18–64, Cl. 235—92.

Borden, Arthur R., to General Motors Corp. Tool and method for measuring the proper angle between angularly disposed shafts. 3,128,554, 4–14–64, Cl. 33—1.

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Britton, Richard K. 3,133,890.
Erekson, Arthur B., and Martz. 3,142,573.
Gordon, Philip L. 3,129,196.
Gordon, Philip L., Dean, and Diedrich. 3,156,663.
Halpern, Benjamin D., Dickstein, and Hoegerle. 3,142,698.
Halpern, Benjamin D., and Kline. 3,140,268.
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Kline, Milton W., Loshaek, and Povlow. 3,138,577.
Loshaek, Samuel, and Blommers. 3,125,552.
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Sanfilippo, Salvatore G., Gordon, and Silverstein. 3,133,040.
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Borden, John V. Floating capsule for dental handpiece. 3,123,338, 3–3–64, Cl. 253—2.

Borden, Roger R., to Lodding Engineering Corp. Method of creping paper using air jets. 3,145,136, 8–18–64, Cl. 161—111.

Bordenet, Eugene W., to Barber-Colman Co. High sensitivity magnetic relay. 3,154,728, 10–27–64, Cl. 317—150.

Bordenkircher, Donald R., and C. B. Frost, to The General Tire and Rubber Co. Method of making rubber based composite propellant. 3,148,229, 9–8–64, Cl. 264—3.

Border, Elmer D., and R. A. Pfenning, to Straza Industries, Inc. Multipath communication system utilizing redundant mesh network with means automatically disconnecting faulty branches. 3,162,827, 12–22–64, Cl. 333—2.

Borders, Edgar W., and T. O. Woodring; said Woodring, assor. to said Borders. Work handling apparatus for applying flocked designs. 3,161,543, 12–15–64, Cl. 118—621.

Bordwine, Ronald, and R. Wojcinski. Universal butter dispenser. 3,162,884, 12–29–64, Cl. 15—514.

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Borelli, Tito: *See*—
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Borelli, Tito, to Montecantini Società Generale per L'Industria Mineraria e Chimica. Method and means for pumping corrosive liquids. 3,161,139, 12–15–64, Cl. 103—44.

Boren, Karl G., and P. H. Cronelid, to Aktiebolaget Electrolux. Absorption refrigerator. 3,137,147, 6–16–64, Cl. 62—454.

Borg, Arthur C., S. J. Zajac, and R. A. Swenson, to Standard Oil Co. Method of preparing lubricant grease. 3,154,491, 10–27–64 Cl. 252—51.5.

Borg-Erickson Corp., The: *See*—
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Baker, Clyde F., Bougie, and Shaw. 3,163,017.
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Borger, Jack W., M. De Paoli, and R. B. Bergstrand, to Pullman Inc. Container transfer arrangement and transfer devices therefor. 3,147,868, 9–8–64, Cl. 214—38.
Borger, Spence A. Boat-hoisting apparatus. 3,139,203, 6–30–64, Cl. 214—450.
Borger, Walter N., L. A. Frohbach, G. A. Knoblauch, J. O. Lenz, and F. L. Mertesdorf, to Minneapolis-Honeywell Regulator Co. Programmed machine with malfunction detection and control apparatus. 3,138,750, 6–23–64, Cl. 318—162.
Borgersen, Roland D., to King Tester Corp. Portable hardness tester. 3,129,582, 4–21–64, Cl. 73—81.
Borges, Burt A., to Minneapolis-Honeywell Regulator Co. Momentary actuator for precision snap switch. 3,142,743, 7–28–64, Cl. 200—160.
Borges, James P., to Hertner Electric Co. Temperature compensated controlled relay. 3,133,239, 5–12–64, Cl. 320—30.
Borgeson, Roger D., and R. F. Rasmussen, to Minneapolis-Honeywell Regulator Co. Electro-hydraulic servomotor. 3,143,042, 8–4–64, Cl. 91—363.
Borgeson, Rudolph E., to Reed & Prince Mfg. Co. Recess head screw. 3,122,963, 3–3–64, Cl. 85—45.
Borgeson, Wesley C., and T. M. Olson, to Litton Systems, Inc. Balloon deflation apparatus. 3,119,578, 1–28–64, Cl. 244—31.
Borgeson, Wesley C., H. E. Henjum, and G. R. Whitnah, to Litton Systems, Inc. Balloon construction. 3,119,579, 1–28–64, Cl. 244—31.
Borgfeldt, Merton J., to California Research Corp. Anionic bituminous emulsions. 3,123,569, 3–3–64, Cl. 252—311.5.
Borgfeldt, Merton J., to California Research Corp. Cationic bituminous emulsions. 3,126,350, 3–24–64, Cl. 252—311.5.
Borglin, Nils A., and A. M. E. Appelgren, to Trelleborgs Gummifabrik Aktiebolag. Tire building machines with expansible tire building drum. 3,121,651, 2–18–64, Cl. 156—398.
Borglin, Nils A., and A. M. E. Appelgren, to Trelleborgs Gummifabriks Aktiebolag. Tire building machines with expansible tire building drum. 3,121,652, 2–18–64, Cl. 156—400.
Borgman, Arthur C.: *See*—
Nesslinger, Fritz J., and Borgman. 3,157,248.
Borgman, Arthur C., to The Patent Scaffolding Co., Inc. Wheel mounted ladder. 3,155,190, 11–3–64, Cl. 182—15.
Borgoyn, Milton J., and J. T. Wasdyke, to United States of America, Navy. Sealed standardized light transducer. 3,125,684, 3–17–64, Cl. 250—239.
Borgstrom, Gote I. Spoons for fishing baits. 3,143,825, 8–11–64. Cl. 43—42.17.
Borie, Henry P., Jr. Remote control mechanical actuator. 3,156,132, 11–10–64, Cl. 74—424.8.
Boris, Andre, to United States of America, Navy. Separable simulated round of ammunition. 3,141,246, 7–21–64, Cl. 35—25.
Boris, Sonia nee Jokelson, to Societe Technique de Pulverisation (par abreviation S.T.E.P.). Sprayer attachment. 3,129,856, 4–21–64, Cl. 222—399.
Bork, Charles: *See*—
Parker, Warren H. 3,143,809.
Bork, Hugo W., to Skil Corp. Means for preventing loss of lubricant in gear chambers. 3,123,109, 3–3–64, Cl. 143—33.
Bork, Karl-Heinz: *See*—
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Von Werder, Fritz, Bruckner, Bork, and Metz. 3,161,661.
Bork, Karl-Heinz, to E. Merck, Aktiengesellschaft. Process for the preparation of 6α-methyl-16-methylene-steroids. 3,157,679, 11–17–64, Cl. 260—397.4.
Borkmann, Frank F., and J. P. Jakob, to American Can Co. Carton forming machine. 3,153,374, 10–20–64, Cl. 93—44.1.
Borkowski, Walter L., and J. J. Van Venrooy, to Sun Oil Co. Process for the recovery of hydrogen chloride from a vapor mixture containing same. 3,131,027, 4–28–64, Cl. 23—154.
Borlenghi, Lorenzo, to Sabor, Etablissement. Door frame of plastics for room doors. 3,130,455, 4–28–64, Cl. 20—11.
Borman, August H., Jr.: *See*—
Herndon, Walter B., and Borman. 3,159,051.
Borman, August H., Jr., C. W. Cline, and C. E. Shellman, to General Motors Corp. Transmission. 3,132,535, 5–12–64, Cl. 74—688.
Borman, Samuel H., to Philco Corp. Electron discharge device having a stand-by cathode. 3,163,793, 12–29–64, Cl. 313—71.
Borman, William T. Apparatus to prevent freezing of ice fishing holes. 3,128,757, 4–14–64, Cl. 126—271.1.
Bormann, Friedrich. Collapsible and adjustable trestles. 3,139,950, 7–7–64, Cl. 182—184.
Born, Alexander R. Swash plate motor. 3,135,166, 6–2–64, Cl. 91—175.
Born, Klaus, K. Sennewald, and A. Ohorodnik, to Knapsack-Griesheim Aktiengesellschaft. Process for the manufacture of 1,4-dicyanobutenes. 3,132,175, 5–5–64, Cl. 260—465.8.
Born, Peter. Artificial fishing lures. 3,133,372, 5–19–64, Cl. 43—42.34.
Borne, Jean, J. Golfier, and H. J. Heijn, to Laboratoires d'Electronique et de Physique Appliquees L.E.P. (Societe Anonyme). Magnetic core matrix adder and subtracter. 3,154,-677, 10–27–64. Cl. 235—176.
Borne, Jean, H. Dormont, and R. Goudin, to North American Philips Co., Inc. Electrothermal printing or recording apparatus. 3,163,489, 12–29–64, Cl. 346—76.
Bornefeld, Fritz, to Goetzewerke Friedrich Goetze Aktiengesellschaft. Producing piston rings having curved cylinder bearing faces. 3,137,019, 6–16–64, Cl. 51—157.
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Borneman, Arthur, Jr.: *See*—
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Borneman, Edmond H., and F. V. Marcinko, to Westinghouse Electric Corp. Process for preparing semiconductor members. 3,152,939, 10–13–64, Cl. 156—3.
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Chieger, George, and Borneman. 3,160,433.
Borneo Sumatra Trading Co., Inc.: *See*—
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Börner, Gerhard: *See*—
Trankner, Werner, Jurenz, and Börner. 3,128,684.
Borner, William G., to The International Nickel Co., Inc. Wear-resistant material. 3,132,927, 5–12–64, Cl. 29—183.5.
Borngaeber, Royce R., to Deere & Co. Variable drive mechanism. 3,140,046, 7–7–64, Cl. 235—91.
Bornhauser, Hans, to International Business Machines Corp. Core storage matrix. 3,154,763, 10–27–64, Cl. 340—1.74.
Bornstein, Lawrence J., to Aerojet-General Corp. Igniter device. 3,151,447, 10–6–64, Cl. 60—35.6.
Bornzin, James H.: *See*—
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Bornzin, James H., and A. H. Keller, to International Harvester Co. Specific threshing cylinder mounting means. 3,126,894, 3–31–64, Cl. 130—27.
Borodin, Daniel J., to U. S. Automation Co. Velocity control mechanism. 3,139,802, 7–7–64, Cl. 92—13.
Boron, Frank J., to American Brake Shoe Co. Rolling mill drum. 3,122,337, 2–25–64, Cl. 242—78.1.
Boron, Frank J., to American Brake Shoe Co. Furnace retorts. 3,141,658, 7–21–64, Cl. 263—47.
Boron, Kurt, W. Janssen, W. Feldkamp, and W. Radeker, to Phoenix-Rheinrohr Aktiengesellschaft Vereinigte Hutten- und Rohrenwerke. Process for the production of clad products. 3,116,549, 1–7–64, Cl. 29—471.5.
Borrevang, Poul, to Lovens Kemiske Fabrik ved A. Kongsted. New hemiacetals and hemiacetal esters of the androstane series and a method for their production. 3,128,291, 4–7–64, Cl. 260—397.4.
Borrevang, Poul, to Lovens Kemiske Fabrik ved A. Kongsted. Corticosteroid hemi acetals and dihemicacetals and their esters. 3,132,163, 5–5–64, Cl. 260—397.45.
Borrino, Joseph, to Sinclair Research, Inc. Lubricant test apparatus. 3,145,558, 8–25–64, Cl. 73—10.
Borroughs Mfg. Co.: *See*—
Haag, Theodore T. 3,123,221.
Borrowdale, Russell W. Camera adjustment. 3,130,632, 4–28–64, Cl. 88—24.
Borsack, Nathaniel, and H. L. Horner, to Normalair, Ltd. Gas pressure release device. 3,126,128, 3–24–64, Cl. 222—5.
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Boldt, Heinz, Krause, and Nink. 3,159,331.
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Borst, Lyle B., to University of Utah. Nuclear reactor for a railway vehicle. 3,127,321, 3–31–64, Cl. 176—38.
Borsuk, Joseph, to Philmont Pressed Steel, Inc. Merry-go-round. 3,147,972, 9–8–64, Cl. 272—39.
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Bradley, James W., and Borth. 3,161,552.
Rogers, Marvin C., and Borth. 3,136,670.
Bortneck, Eugene, J. A. Vona, and E. J. Kuzma, to Celanese Corp. of America. Alkyd resins modified with omega lactone. 3,140,267, 7–7–64, Cl. 260—22.
Bortnick, Newman M., and M. F. Fegley, to Rohm & Haas Co. Substituted pyrrolidinones and piperdinones. 3,117,975, 1–14–64, Cl. 260—325.
Bortnick, Newman M., and M. F. Fegley, to Rohm & Haas Co. Substituted iminopyrrolidines. 3,121,093, 2–11–64, Cl. 260—313.
Bortnick, Newman M., and M. F. Fegley, to Rohm & Haas Co. Substituted pyrrolidinones and piperidinones. 3,132,149, 5–5–64, Cl. 260—294.7.
Bortnick, Newman M., and M. F. Fegley, to Rohm & Haas Co. Specific substituted iminopyrrolidines. 3,132,151, 5–5–64, Cl. 260—313.
Borunsky, Jules, to Polymer Corp. Ltd. Process for grafting a monomer onto an oxidized polysaccharide. 3,138,564, 6–23–64, Cl. 260—17.
Borup, Herbert H.: *See*—
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Borup, Herbert H., to Kaiser Aluminum & Chemical Corp. Balanced-stressed composite structure panel and method for same. 3,127,304, 3–31–64, Cl. 161—56.
Borutzke, Irvin W., to Burroughs Corp. Rotary scanner switch. 3,121,142, 2–11–64, Cl. 200—11.
Boryfewycz, Steve, to John E. Mitchell Co., Inc. Vacuum machine wall plug switch. 3,159,727, 12–1–64, Cl. 200—61.6.
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Duinker, Simon, and Bos. 3,145,453.
Bosack, Irwin A., to American Optical Co. Adjustable chair for professional purposes. 3,135,550, 6–2–64, Cl. 297—329.
Bosack, Irwin A., to American Optical Co. Pressure relief valve system. 3,149,644, 9–22–64, Cl. 137—599.
Bosak, Paul. Birthday cake candle extinguisher. 3,150,831, 9–29–64, Cl. 239—211.
Bosak, Paul. Machine for coffee roasting, grinding and cooking. 3,153,377, 10–20–64, Cl. 99—280.
Bosca, Hugo, Co., Inc.: *See*—
Bosca, Orsino H. and M. E. 3,124,187.
Bosca, Orsino H. and M. E. 3,141,486.
Bosca, Mario E.: *See*—
Bosca, Orsino H. and M. E. 3,124,187.
Bosca, Orsino H. and M. E. 3,141,486.
Bosca, Orsino H. and M. E., to Hugo Bosca Co., Inc. Card holder. 3,124,187, 3–10–64, Cl. 150—38.
Bosca, Orsino H. and M. E., to Hugo Bosca Co., Inc. Toilet case. 3,141,486, 7–21–64, Cl. 150—34.
Bosch, Lawrence R., ¼ to M. C. Bosch and ¼ to J. W. Ralls and A. E. Hendricson. Honeycomb structure and process of manufacture. 3,137,604, 6–16–64, Cl. 156—197.
Bosch, Michael C.: *See*—
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Bosch, Robert, G.m.b.H.: *See*—
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Schneck, Werner, and Herrmann. 3,126,461.
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Zielasek, Gotthold. 3,120,052.
Bosch, Robert, to Robert Bosch G.m.b.H. Inductor-type alternating current generator. 3,134,039, 5–19–64, Cl. 310—168.
Bosch, Walter, to Bohner und Kohle Maschinenfabrik. Spinning lathe. 3,141,433, 7–21–64, Cl. 113—53.
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Boschiero, Corrado, to Simplex-Rapid. Automatic cut-off tool having variable speed drive for coiling machines. 3,120,258, 2–4–64, Cl. 153—65.
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Bosco, Charles G., to Northwestern Steel & Wire Co. Coiling device for hot rod. 3,143,314, 8–4–64, Cl. 242—83.
Bose, Ajay K., to The Upjohn Co. 16-diazo estrone ethers and preparation thereof. 3,135,772, 6–2–64, Cl. 260—397.4.
Bose, Norman J., and D. A. Break, to General Precision, Inc. Level encoder. 3,157,872, 11–17–64, Cl. 340—347.
Boser, Ronald J., and J. De Vito. Snap fastener. 3,152,376, 10–13–64, Cl. 24—216.
Bosler, James W.: *See*—
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Bosler, Warren W. Emergency signal device. 3,123,801, 3–3–64, Cl. 340—52.
Bosley, Joseph, and A. Borneman, Jr. Fireman's hat with siren and flashing light mounted thereon. 3,142,833, 7–28–64, Cl. 340—321.
Bosma, Hendrik, to North American Philips Co., Inc. Directional isolator employing gyromagnetic material biased at an angle to increase damping. 3,135,931, 6–2–64, Cl. 333—24.2.
Bosmajian, George, to Southern Research Institute. Isomerization process. 3,135,809, 6–2–64, Cl. 260—650.
Bosomworth, George P., and A. M. Lancaster, to The Firestone & Rubber Co. Tubed innerliner for bagless cured tires. 3,143,449, 8–4–64, Cl. 156—126.
Bossard, Charles L., to United States of America, Navy. Digital encoder. 3,143,731, 8–4–64, Cl. 340—347.
Bossard, Charles L., to United States of America, Navy. Digital encoder. 3,151,321, 9–29–64, Cl. 340—347.
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Bossard, Werner, H. Ackermann, H. Seiler, and J. Riethmann, to J. R. Geigy, A.-G. Dyestuffs containing tetrameric cyanogen. 3,119,807, 1–28–64, Cl. 260—153.
Bossard, Werner, H. Seiler, P. Dussy, M. Reding, A. Pugin, and H. P. Kölliker, to J. R. Geigy, A.-G. Azodyestuffs containing a B-chlorocrotonyl radical. 3,126,368, 3–24–64, Cl. 260—151.
Bossard, Werner, H. Bosshard, and H. E. Wegmüller, to J. R. Geigy A.-G. Oxa- and thio-diazepines. 3,133,086, 5–12–64, Cl. 260—327.
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Bosse, Joachim, J. Wagner, and F. Wojahn, to Chemisch-Pharmazeutische Fabrik Adolf Klinge & Co. Kryptoescin and process of making same. 3,151,108, 9–29–64, Cl. 260—210.5.
Bossetti, Adriano. Passage continuous kiln for firing ceramic material. 3,135,037, 6–2–64, Cl. 25—142.
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Bosshard, Hans H., A. Elsener, F. Wirsching, and H. Zollinger, to Ciba Ltd. Process for the production of colored polyurethane plastics. 3,137,671, 6–16–64, Cl. 260—37.
Bosshard, Hans, to Schweizerische Wagons- und Aufzugefabrik A.-G. Schlieren-Zurich. Elevator control system. 3,146,857, 9–1–64, Cl. 187—29.
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Matter, Max, Vogel, and Bosshard. 3,119,832.
Bosshardt, David K., E. E. Howe, and J. W. Huff, to Merck & Co., Inc. Methods of reducing plasma chloresterol. 3,153,615, 10–20–64, Cl. 167—65.

Bossinger, Charles D., and K. G. Taylor, to Armour Pharmaceutical Co. 2-hydroxy-2-phenyl-ethyl carbamate for muscle relaxation. 3,144,389, 8–11–64, Cl. 167—65.

Bost, Howard W., and R. C. Doss, to Phillips Petroleum Co. Nitrofluoro-alkanes as oxidant for liquid rocket propellants. 3,127,736, 4–7–64, Cl. 60—35.4.

Boster, Clark S., to Byron Jackson, Inc. Elevator spider. 3,149,391, 9–22–64, Cl. 24—263.

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Boston Insulated Wire & Cable Co.: *See*—
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Boston, William G., to Socony Mobil Oil Co., Inc. Heating of an earth formation penetrated by a well borehole. 3,163,745, 12–29–64, Cl. 219—277.

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Bostrom, John D., to Poster Packaging, Inc. Sealing apparatus. 3,137,111, 6–16–64, Cl. 53—373.

Bostrom, Mark R., and E. W. Taylor, to The Singer Co. Photoelectric motor-speed foot controller. 3,145,304, 8–18–64, Cl. 250—239.

Bostrum, John D., to Poster Packaging, Inc. Container. 3,140,807, 7–14–64, Cl. 229—2.5.

Bostwick, James L. Brake adjusting device. 3,121,478, 2–18–64, Cl. 188—79.5.

Bostwick, Kenneth V., to International Business Machines Corp. Torsion rod cover support. 3,153,255, 10–20–64, Cl. 16—1.

Bostwick, Lloyd G., and J. A. Hedge, to Sun Oil Co. Chemically treated asphalt. 3,130,144, 4–21–64, Cl. 208—44.

Bostwick, Michael M. Animal shelter. 3,163,151, 12–29–64, Cl. 119—19.

Bostwick, Norvan W.: *See*—
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Bostwick, Norvan W., to Simmonds Precision Products, Inc. Fuel injection control apparatus. 3,142,291, 7–28–64, Cl. 123—140.

Boswell, George A., to Shell Oil Co. Selective reduction process. 3,162,652, 12–22–64, Cl. 260—345.1.

Boswell, George A., and P. H. Williams, to Shell Oil Co. Tetrahydropyrimidinone production. 3,137,697, 6–16–64, Cl. 260—251.

Boswell, George T. Multi-stage toy missile. 3,134,194, 5–26–64, Cl. 46—74.

Boswell, Joseph I., T. Burks, G. F. Dixon, Jr., and G. S. Lee, to United States of America, Army. Concrete casting machine. 3,139,663, 7–7–64, Cl. 25—2.

Boswell, Paul B.: *See*—
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Boswell, Vance F., and J. C. Shaw, to United States of America, Navy. Snorkel simulator. 3,131,391, 4–28–64, Cl. 343—18.

Boswell, Vance F., and J. C. Shaw, to Clevite Corp. Underwater device having an acoustically isolated nose section. 3,139,056, 6–30–64, Cl. 114—22.

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Hafstrom, Warren R., Hinkel, and Boswinkle. 3,157,192.
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Boswinkle, George, D. A. Nordal, and W. F. Saenger, to Whirlpool Corp. Storage bunkers. 3,162,497, 12–22–64, Cl. 312—248.

Botefuhr, Harold R., to Skil Corp. Adjustable guide plate for jig saws. 3,146,809, 9–1–64, Cl. 143—68.

Boteler, Henry W., to Grinnel Corp. Diaphragm assembly for diaphragm valves. 3,134,571, 5–26–64, Cl. 251—331.

Boteler, Henry W., to Grinnell Corp. Diaphragm valves. 3,154,289, 10–27–64, Cl. 251—367.

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Bothwell, Theodore P., and M. Rosenbloom, to Epsco, Inc. Logical circuit. 3,122,729, 2–25–64, Cl. 340—248.

Bothwell, Theodore P., and J. L. De Clue, to Computer Control Co., Inc. Universal logical package having means preventing clock-pulse splitting. 3,145,309, 8–18–64, Cl. 307—88.5.

Botine, John E. Boat anchor. 3,138,134, 6–23–64, Cl. 114—208.

Botsch, Francis W., and M. J. Sacco, to United States of America, Army. Human pulse rate measuring apparatus. 3,139,086, 6–30–64, Cl. 128—2.05.

Bott, Harold R. Float sampler for liquids. 3,121,334, 2–18–64, Cl. 73—421.

Bottemiller, Merton M. Chair with foot rest. 3,137,528, 6–16–64, Cl. 297—429.

Bottenberg, Warren E., to B-M-B Co., Inc. Mowing and windrowing machine. 3,157,014, 11–17–64, Cl. 56—6.

Bottenbruch, Ludwig: *See*—
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Botterill, John R., and F. Wienecke, to Alfred Teves, K.G. Brake-shoe-restoring device. 3,154,175, 10–27–64, Cl. 188—73.

Bottero, Jacques, and C. Gaestel, to Esso Research and Engineering Co. Hyrocarbon binder compositions. 3,126,292, 3–24–64, Cl. 106—277.

Bottger, Josef, and J. Klos, to Tatra, narodni podnik. Cylinder head for internal combustion engines. 3,117,565, 1–14–64, Cl. 123—41.57.

Bottini, Raymond S. Dice agitating and viewing game box. 3,124,359, 3–10–64, Cl. 273—145.

Bottler, Donald J. Method of cleaning baseballs. 3,116,578, 1–7–64, Cl. 51—316.

Bottler, Owen D.: *See*—
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Bottom, Theodore J. Roll-forming machine. 3,128,818, 4–14–64, Cl. 153—2.

Bottomley, Anthony, to Phillips Petroleum Co. Synthetic knopped filaments. 3,127,915, 4–7–64, Cl. 139—420.

Bottorff, Frank, and F. Haig. Fuel control for internal combustion engines. 3,148,671, 9–15–64, Cl. 123—198.

Bottum, Edward W. Fusible plug. 3,139,103, 6–30–64, Cl. 137—72.

Bottum, Edward W. Adjustable muffler. 3,141,519, 7–21–64, Cl. 181—57.

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Boucher, Donald F., to E. I. du Pont de Nemours and Co. Apparatus and method for steam-polymer separation. 3,134,655, 5–26–64, Cl. 55—52.

Boucher, Donald F., and B. C. Sakiadis, to E. I. du Pont de Nemours and Co. Fluid flow inverter. 3,128,794, 4–14–64, Cl. 138—37.

Boucher, Frank G., to Jersey Production Research Co. Seismic model. 3,154,169, 10–27–64, Cl. 181—.5.

Boucher, Harold T. C., and M. G. Wilde, to Bristol Aircraft Ltd. Fuel tank for aircraft. 3,131,893, 5–5–64, Cl. 244—135.

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Mentzer, Everett K., and Boucherle. 3,124,355.

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Boudigues, Alexandre, to Compagnie Generale de Telegraphie Sans Fil. Ultrasonic submarine sounding equipments. 3,145,364, 8–18–64, Cl. 340—3.

Boudouris, Angelo. Communication system for drive-in restaurants and other applications. 3,156,774, 11–10–64, Cl. 179—16.

Boudreau, John L. Firearm and rotary magazine therefor. 3,133,369, 5–19–64, Cl. 42—19.

Boudreau, John L. Adjustable pistol sight with split cylindrical sleeve. 3,153,873, 10–27–64, Cl. 42—1.

Boudreau, Maurice L.: *See*—
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Boudreau, Maurice L., and J. R. Coult, to General Mills, Inc. Paper punch. 3,132,554, 5–12–64, Cl. 83—572.

Boudreau, Ovila J. Smoke cleansing apparatus. 3,139,331, 6–30–64, Cl. 55—237.

Boudreaux, Gene A., and J. J. Aguillard. Rotary lawn mower edging attachment. 3,125,165, 3–17–64, Cl. 172—14.

Boudrias, Robert A.: *See*—
Prucha, Martin J., and Boudrias. 3,157,270.

Boudrias, Robert A., to General Precision, Inc. Multiple frequency oscillator utilizing plural feedback loops. 3,137,826, 6–16–64, Cl. 331—60.

Bougeard, Arthur. Pneumatic shock absorber. 3,147,967, 9–8–64, Cl. 267—65.

Boughner, Lawrence G., to Rockwell-Standard Corp. Electrical gear shift mechanism. 3,132,531, 5–12–64, Cl. 74—335.

Boughnou, Thomas R., to Raytheon Co. Sideband cancellation system. 3,132,339, 5–5–64, Cl. 343—8.

Boughton, John H. Side dump buckets. 3,144,147, 8–11–64, Cl. 214—140.

Bougie, Romeo: *See*—
Baker, Clyde F., Bougie, and Shaw. 3,163,017.
Shaw, Lyle F., Baker, and Bougie. 3,151,783.

Bouhier, Louis G. Loose leaf binding method. 3,135,266, 6–2–64, Cl. 129—24.

Bouladon, Gabriel, and P. Zuppiger, to M. Berliet Automobiles. Electric driving wheel equipped with a braking system. 3,161,249, 12–15–64, Cl. 180—10.

Bould, Geoffrey, to Dunlop Rubber Co. Ltd. Underwater swimming and diving suits. 3,138,155, 6–23–64, Cl. 128—144.

Boulet, Charles, to Halo-Flite International Inc. Methods of effecting heat exchange and heat transfer devices therefor. 3,156,455, 11–10–64, Cl. 263—21.

Boulet, Georges, to Société à Responsabilité Limitée; Recherches Etudes Production R.E.P. Control of the swash-plate of a barrel pump by rocker-arms. 3,130,593, 4–28–64, Cl. 74—60.

Bouligny, R. H., Inc.: *See*—
Schleig, John O. 3,132,446.
Wilson, Robert W. 3,134,583.
Wilson, Robert W. 3,146,896.
Boulis, Richard E.: *See*—
Funke, John L., and Boulis. 3,141,555.
Boulton & Paul Ltd.: *See*—
Henderson, Robert A. 3,120,135.
Bouracier, Cyril E. Change-giving apparatus. 3,117,581, 1–14–64, Cl. 133—4.
Bourassa, Paul E. Telescopic antenna. 3,135,363, 6–2–64, Cl. 189—26.
Bourcier de Carbon, Christian M. L. L.: *See*—
Heckethorn, John E. 3,163,411.
Bourcier de Carbon, Christian M. L. L. Hydraulic shock absorber with improved valving. 3,134,460, 5–26–64, Cl. 188—88.
Bourcier de Carbon, Christian M. L. L. Shock absorbers. 3,140,085, 7–7–64, Cl. 267—64.
Bourcier de Carbon, Christian-Marie-Lucien-Louis. Vehicle suspension devices. 3,145,985, 8–25–64, Cl. 267—64.
Bourdel, Jacques. Relay operating by electrocapillarity. 3,161,750, 12–15–64, Cl. 200—152.
Bourdunis, Constantine C. Emergency exit means. 3,143,186, 8–4–64, Cl. 182—95.
Bourel, Jean, to Chaufferie et Fumisterie Industrielles. Process for the charging and discharging of rotating hearth furnaces, and means for carrying out this process. 3,127,035. 3–31–64, Cl. 214—23.
Bourgeas, Pierre. Stop motion for belt-driven rotary spindles. 3,141,287, 7–21–64, Cl. 57—81.
Bourgeous, Clarence B. Means of automatic grade control. 3,126,653, 3–31–64, Cl. 37—108.
Bourgi, Mario J. Bicycle drive apparatus. 3,121,575, 2–18–64, Cl. 280—236.
Bourgraf, Elroy E.: *See*—
Weil, Burt, Ferneau, and Bourgraf. 3,137,511.
Bourguignon, Jules-Florent-Joseph, to Baumgartner Freres S. A. Device for converting light energy into mechanical energy. 3,129,371, 4–14–64, Cl. 318—480.
Bourne, Henry A., Jr., E. W. Sutton, F. R. Conley, and J. C. Albright, to Continental Oil Co. Method of radiological well logging using a radio-active tracer with a carrier. 3,129,331, 4–14–64, Cl. 250—83.3
Bourne, John G.: *See*—
Auslender, Leland I., and Bourne. 3,122,964.
Bourne, Joseph R., and K. V. Eisberg, to Carrier Corp. Purge arrangements. 3,138,005, 6–23–64, Cl. 62—85.
Bourns, Inc.: *See*—
Bourns, Marlan E., and Harrison. 3,145,360.
Bourns, Marlan E., and Stout. 3,151,598.
Caddock, Richard E., and Bourns. 3,134,086.
Hardison, Wilbur T. 3,162,172.
Hardison, Wilbur T., Mathison, Caddock, and Bourns. Re. 25,674.
Hardison, Wilbur T., Mathison, and Stamm. 3,134,955.
Kruse, Harold L., King, Hardison, and Jones. 3,139,601.
Parkinson, Robert C. 3,145,359.
Parkinson, Robert C. 3,145,361.
Bourns, Marlan E.: *See*—
Caddock, Richard E., and Bourns. 3,124,779.
Caddock, Richard E., and Bourns. 3,134,086.
Hardison, Wilbur T., Mathison, Caddock, and Bourns. Re. 25,674.
Bourns, Marlan E. Electrical resistor. Re. 25,510, 1–7–64, Cl. 338—150.
Bourns, Marlan E., and M. E. Harirson, to Bourns, Inc. Electric pressure-responsive instrument. 3,145,360, 8–18–64, Cl. 338—41.
Bourns, Marlan E., and W. A. Stout, to Bourns, Inc. Turns-indicating knob. 3,151,598, 10–6–64, Cl. 116—115.
Bourns, Marlan E., M. E. Harrison, W. T. Hardison, D. L. Gaa, and G. F. Kull. Potentiometers. 3,161,849, 12–15–64, Cl. 338—183.
Bourquard, Fernand, to Commissariat a l'Energie Atomique. Supersonic compressors. 3,156,407, 11–10–64, Cl. 230—120.
Bourquin, Jean, and F. Straumann, to Institut Dr. Ing. Reinhard Straumann A.G. Self-winding watch barrels. 3,130,-538, 4–28–64, Cl. 58—87.
Bourquin, Jean-Pierre: *See*—
Griot, Rudolf, Renz, Bourquin, and Schenker. 3,136,768.
Renz, Jany, Bourquin, Winkler, and Gagnaux. 3,159,-683.
Bourret, Lucien. Baseball base. 3,126,203, 3–24–64, Cl. 273—25.
Bousquet, Euclid W., to E. I. du Pont de Nemours and Co. Certain N-carbamyl urazoles. 3,141,023, 7–14–64, Cl. 260—308.
Bousso, Edwin: *See*—
Ishai, Ori, and Bousso. 3,151,842.
Boussu, Gabriel X. R., and G. L. Travers, to Michelin & Cie. Pneumatic tires. 3,131,744, 5–5–64, Cl. 152—361.
Boutillette, Edward J., to M.K.M. Knitting Mills, Inc. Plating attachment for knitting machine. 3,157,035, 11–17–64, Cl. 66—136.
Boutin, Juliette: *See*—
Lejeune, Emile, and Boutin. 3,138,336.
Boutwell, John T. Blank cartridge. 3,144,827, 8–18–64, Cl. 102—39.
Bouvier, Ward A.: *See*—
Frederick, Harold H., and Bouvier. 3,153,966.
Bouvier, Ward A., to General Binding Corp. Book binding machine. 3,122,761, 3–3–64, Cl. 11—1.
Bouvier, Ward A., and W. M. Bassett, to General Binding Corp. Book binding machine mechanism. 3,125,887, 3–24–64, Cl. 74—20.
Bouwers, Albert, to Optische Industrie de Oude Delft, N.V. Apparatus for X-ray fluoroscopy or photofluorography. 3,126,480, 3–24–64, Cl. 250—65.
Bouwers, Albert, to Optische Industrie "de Oude Delft," N.V. Mechanical scanning device with optics having pin-cushion distortion to provide linear scanning rate. 3,144,511, 8–11–64, Cl. 178—7.1.
Bouwers, Albert, to Optische Industrie de Oude Delft, N.V. Panoramic objective. 3,151,524, 10–6–64, Cl. 88—57.
Bouwers, Albert, to Optische Industrie de Oude Delft, N.V. Panoramic infrared telescope. 3,155,832, 11–3–64, Cl. 250—213.
Bouyoucos, Joh V. Hydroacostic oscillator techniques. 3,143,999, 8–11–64, Cl. 116—137.
Bovaird, Louise. Venetian blind paint stand. 3,130,439, 4–28–64, Cl. 15—268.
Bovard, Robert M., and C. B. Jackson, to Mine Safety Appliances Co. Oxygen generating canisters for closed circuit breathing apparatus. 3,148,034, 9–8–64, Cl. 23—281.
Bovenkerk, Harold P.: *See*—
Wentorf, Robert H., Jr., and Bovenkerk. 3,148,161.
Bovenkerk, Harold P., R. H. Wentorf, Jr., and R. H. Savage, to General Electric Co. Compact of abrasive crystalline material with boron carbide bonding medium. 3,136,615, 6–9–64, Cl. 51—307.
Bover, Martin C., to Saco-Lowell Shops. Process and apparatus for feeding spinning frames directly from the drawing frame silver. 3,118,630, 1–21–64, Cl. 242—54.4.
Bovet, Daniele, R. L. Vittory, and G. B. Marini-Bettolo, to Instituto de Angeli. N-benzyl-N-(1,4-benzodioxan-2-methyl)-hydrazine and corresponding hydrazones. 3,158,622, 11–24–64, Cl. 260—340.3.
Bovey, Le Roy V.: *See*—
Tijmann, Willem B., and Bovey. 3,146,838.
Bovington, Wayne L., and O. A. Lindloff. Pontoon boat. 3,134,113, 5–26–64, Cl. 9—6.
Bowcutt, Alvin A.: *See*—
Albert, Frank P., Bieker, and Bowcutt. 3,159,911.
Bowden, Andrew T., to C. A. Parsons & Co. Ltd. Fuel elements for nuclear reactors. 3,138,537, 6–23–64, Cl. 176—67.
Bowden, Andrew T., to C. A. Parsons & Co. Ltd. Fuel elements for nuclear reactors. 3,138,538, 6–23–64, Cl. 176—67.
Bowden, Andrew T., and J. M. Robertson, to C. A. Parsons & Co. Ltd. Fuel elements for nuclear reactors. 3,152,963, 10–13–64, Cl. 176—77.
Bowden, Charles J., and E. C. Frisvold. Multiple conductor cable connection. 3,158,422, 11–24–64, Cl. 339—183.
Bowden, Eldred R., and B. G. Crute, to Stant Mfg. Co., Inc. Filtering filler neck breather cap. 3,130,025, 4–21–64, Cl.
Bowden, George F.: *See*—
Bonin, Lawrence G., and Bowden. 3,137,909.
Bowden, George F., to Symons Mfg. Co. Concrete wall form panel unit with facing-reinforcing and insulating means. 3,144,701, 8–18–64, Cl. 25—131.
Bowden, George F., and B. E. Ruth, to Symons Mfg. Co. Concrete wall form installation. 3,130,470, 4–28–64, Cl. 25—131.5.
Bowden, George F., and B. E. Ruth, to Symons Mfg. Co. Shore assembly for concrete floor slabs. 3,130,950, 4–28–64, Cl. 248—354.
Bowden, Jimmie R.: *See*—
Feighner, George C., and Bowden. 3,118,956.
Bowden, Jimmie R., to Continental Oil Co. Separation of triethylaluminum from olefin mixtures by means of membrane permeation. 3,149,179, 9–15–64, Cl. 260—683.15.
Bowden, Malcolm K.: *See*—
Conway, Hug G., and Bowden. 3,150,849.
Bowditch, Harold G.: *See*—
Williams, Frederick, and Bowditch. 3,138,909.
Bowdle, Raymond R., to International Business Machines Corp. Data processing system. 3,158,844, 11–24–64, Cl. 340—174.1.
Bowe, John. Controls for candy cotton machine. 3,125,967, 3–24–64, Cl. 107—8.
Bowe, John, and D. Frohlich. Receptacle for cotton candy. 3,160,119, 12–8–64, Cl. 107—8.
Bowen, Alfred J. Power-driven hose reel. 3,160,173, 12–8–64, Cl. 137—355.2.
Bowen, Gilbert C., to United States of America, Navy. Safe biological or chemical warfare projectile. 3,143,070, 8–4–64 Cl. 102—66.
Bowen, Glenn L.: *See*—
Davies, Edward R., Bowen, and Lemon. 3,144,107.
Bowen, Grady M.: *See*—
Dismukes, Henry B., and Bowen. 3,120,751.
Bowen, Harry H.: *See*—
Costa, Philip J., Bowen, and Babbitt. 3,138,970.
Bowen, Herman L. Surveying apparatus. 3,117,378, 1–14–64, Cl. 33—74.
Bowen, Idris G., to International Combustion (Holdings) Ltd. Handling of slurries. 3,140,123, 7–7–64, Cl. 302—14.
Bowen, John B. Refuse collector. 3,139,299, 6–30–64, Cl. 294—55.
Bowen, Lawrence H.: *See*—
McCarty, George W., Sheps, and Bowen. 3,144,735.

Bowen, Philip E., to FMC Corp. Magnetic 6 pack turning device. 3,128,868, 4–14–64, Cl. 198—33. 55—503.

Bowen, Richard L., Jr. Tension control apparatus. 3,145,-945, 8–25–64, Cl. 242—75.47.

Bowen, Richard L. B., Jr. Pump for high viscosity fluids. 3,153,385, 10–20–64, Cl. 103—153.

Bowen, Roger, to International Telephone and Telegraph Corp. Contact mounting. 3,158,424, 11–24–64, Cl. 339—217.

Bowen, Tom, to Smiths America Corp. Periodically operated electric switches for regulating the rate of supply of power to different circuits. 3,126,458, 3–24–64, Cl. 200—27.

Bowen, Tom, to Smiths America Corp. Adjustable clock controlled switch mechanism. 3,151,489, 10–6–64, Cl. 74—3.5.

Bowen, William R., to Farrel Corp. Plastic molding machine. 3,132,381, 5–12–64, Cl. 18—30.

Bower, Clark D., to Layne & Bowler Pump Co. Axial flow pump. 3,132,595, 5–12–64, Cl. 103—87.

Bower, Clyde S., to Shoup Toll Collecting Devices, Inc. Coin singling apparatus. 3,125,102, 3–17–64, Cl. 133—3.

Bower, Gerald C., to Royal Industries, Inc. Bag closing machine. 3,126,684, 3–31–64, Cl. 53—135.

Bower, John L.: *See*—
Shelley, Rulon G., and Bower. 3,123,822.

Bower, Richard R., to Raytheon Co. Article handling. 3,129,-822, 4–21–64, Cl. 214—1.

Bower, Thomas E.: *See*—
Walker, James H., and Bower. 3,144,816.

Bowerman, Hulie E., and C. P. Warman, Jr. Fluid actuator for clutch or brake. 3,163,274, 12–29–64, Cl. 192—88.

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Cross, Alexander D., and Bowers. 3,127,429.
Cross, Alexander D., and Bowers. 3,156,711.
Cross, Alexander D., and Bowers. 3,163,663.
Cross, Alexander D., Kincl, and Bowers. 3,150,140.
Denot, Ernesto, and Bowers. 3,151,134.
Ringold, Howard J., and Bowers. 3,141,029.
Ringold, Howard J., Djersassi, Bowers, and Velasco. 3,138,589.
Ringold, Howard J., Zderic, Djerassi and Bowers. 3,126,375.

Bowers, Albert, to Syntex Corp. 19-halo pregnenes. 3,124,-574, 3–10–64, Cl. 260—239.55.

Bowers, Albert, to Syntex Corp. 5*α*, 10*β*-dihalo estranes and process therefor. 3,139,446, 6–30–64, Cl. 260—397.4.

Bowers, Albert, to Syntex Corp. Process for the production of 19-hydroxy-Δ^4-3-keto steroids. 3,145,202, 8–18–64, Cl. 260—239.55.

Bowers, Albert, and J. Edwards, to Syntex Corp. 2-formyl corticoids. 3,124,573, 3–10–64, Cl. 260—239.55.

Bowers, Albert, and P. G. Holton, to Syntex Corp. 3-Halo androstenes. 3,127,426, 3–31–64, Cl. 260—397.3.

Bowers, Albert, J. Edwards, and J. Zderic, to Syntex Corp. 3-aminomethylene androstanes. 3,128,269, 4–7–64, Cl. 260—239.5.

Bowers, Albert, and O. Halpern, to Syntex Corp. 5,19-cyclo-Δ^9-cyclopentanophenanthrene derivatives. 3,128,290, 4–7–64, Cl. 260—397.3.

Bowers, Albert, and L. H. Knox, to Syntex Corp. $\Delta^{2,4}$-pregnadienes. 3,138,619, 6–23–64, Cl. 260—397.45.

Bowers, Albert, J. Ewards, and J. C. Orr, to Syntex Corp. Pyrazolo-androstanes. 3,144,447, 8–11–64, Cl. 260—239.5.

Bowers, Albert, and J. Edwards, to Syntex Corp. Isoxazolo-androstan-17*β*-ol derivatives. 3,144,449, 8–11–64, Cl. 260—239.55.

Bowers, Albert, and O. Halpern, to Syntex Corp. Process for the preparation of 3-hydroxy-6-keto-5*β*,10*α*-steroids. 3,148,-185, 9–8–64, Cl. 260—239.55.

Bowers, Albert, and J. Edwards, to Syntex Corp. Polyhalo-methyl pregnenes. 3,151,132, 9–29–64, Cl. 260—397.3.

Bowers, Albert, and P. Crabbe, to Syntex Corp. 16-halo estrogens. 3,153,065, 10–13–64, Cl. 260—397.45.

Bowers, Albert, and J. Edwards, to Syntex Corp. 16-difluoro-methyl adrenocorticoids. 3,155,695, 11–3–64, Cl. 260—397.45.

Bowers, Albert, and P. Crabbe, to Syntex Corp. 20-(lower aliphatic hydrocarbon)-$\Delta^{17(20)}$-pregnen-21-oic acids. 3,158,-625, 11–24–64, Cl. 260—397.1.

Bowers, Albert, and J. C. Orr, to Syntex Corp. Δ2,4-pregnadiene derivatives. 3,158,631, 11–24–64, Cl. 260—397.3.

Bowers, Albert, and O. Halpern, to Syntex Corp. 6-keto pregnenes. 3,159,621, 12–1–64, Cl. 260—239.55.

Bowers, Bernard E., and E. E. Snyder. Cemetery wreath holder. 3,136,510, 6–9–64, Cl. 248—27.8.

Bowers, Buddy A., and F. T. Hunt, to Pron-O-Lift, Inc. Patient lift. 3,131,404, 5–5–64, Cl. 5—86.

Bowers, Eric H.: *See*—
Beck, George, Bowers, Brown, and Thoma. 3,137,243.

Bowers, Eric H., to Dowty Hydraulic Units Ltd. Hydraulic apparatus. 3,126,763, 3–31–64, Cl. 74—733.

Bowers, Grady W., Jr., L. C. Jensen, and W. A. Harris, to United States of America, Air Force. Foamed aluminum honeycomb rotor rub-in shroud. 3,126,149, 3–24–64, Cl. 230—133.

Bowers, Marvin T. Collapsible fishing float. 3,137,961, 6–23–64, Cl. 43—43.1.

Bowers, Melvin A., to Standard Oil Co. Multiple column gas chromatography valve. 3,119,251, 1–28–64, Cl. 73—23.

Bowers, Philip W., and W. F. Allen. Display unit. 3,120,826, 2–11–64, Cl. 108—101.

Bowers, William E., and K. W. McLoad, to Vector Cable Co. Method and apparatus for stabilizing cables. 3,137,-988, 6–23–64, Cl. 57—55.5.

Bowes, Donald R., and P. E. Regan, Jr., to Ethicon, Inc. Bicameral container. 3,156,369, 11–10–64, Cl. 215—6.

Bowhill, Arthur J., to United Kingdom Atomic Energy Authority. Methods of manufacturing journal and journal bearing members. 3,158,924, 12–1–64, Cl. 29—149.5.

Bowker, Ervin, and E., Jr. Tape slitting machine. 3,127,123, 3–31–64, Cl. 242—56.4.

Bowker, Ervin, Jr.: *See*—
Bowker, Ervin, and E., Jr. 3,127,123.

Bowles, William R.: *See*—
Brandt, Carl T., and Bowles. 3,159,976.

Bowller, Robert J. Grain sampler. 3,117,452, 1–14–64, Cl. 73—424.

Bowling, Joseph E., Jr., and R. W. Moore, to The Pangborn Corp. Particle-throwing apparatus. 3,160,990, 12–15–64, Cl. 51—9.

Bowling, Lin W.: *See*—
Peters, Harlan J. 3,132,571.

Bowlus, Sanford S., to Blaw-Knox Co. Method of starting up a boiler. 3,117,556, 1–14–64, Cl. 122—4.

Bowman, Cloyd R. Front wheel drive for two wheeled vehicle. 3,118,514, 1–21–64, Cl. 180—31.

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De Good, Maynard J., and Bowman. 3,138,238.

Bowman, David F., to I-T-E Circuit Breaker Corp. Transfer mechanism. 3,120,355, 2–4–64, Cl. 242—47.12.

Bowman, David F., to I-T-E Circuit Breaker Co. Adjustable waveguide filter. 3,130,380, 4–21–64, Cl. 333—73.

Bowman, David F., to I-T-E Circuit Breaker Co. Frequency selective mesh with controllable mesh tuning. 3,148,370, 9–8–64, Cl. 343—756.

Bowman, David F., to Airtron Division of Litton Precision Products, Inc. Coupling orthogonal polarizations in a common square waveguide with modes in individual waveguides. 3,150,333, 9–22–64, Cl. 333—9.

Bowman, Hamilton B., to Bowman Steel Corp. Wall paneling joint seal. 3,143,828, 8–11–64, Cl. 50—220.

Bowman, Hamilton B., J. D. Weinzettle, and M. Downing, to Bowman Steel Corp. Protected metal articles. 3,147,546, 9–8–64, Cl. 29—424.

Bowman, Harry O., to Freeman Shoe Corp. Shoe machinery marking apparatus for shoe vamps. 3,132,361, 5–12–64, Cl. 12—51.

Bowman, Joseph R. Signal device. 3,121,864, 2–18–64, Cl. 340—283.

Bowman, Lawrence E., to Leonard Valve Co. Fluid mixing device. 3,152,760, 10–13–64, Cl. 236—12.

Bowman, Ralph E., J. F. Cavalla, and J. Davoll, to Parke, Davis & Co. 1,1-diethyl-3-hydroxypyrrolidinium bromide benzilate ester. 3,157,671, 11–17–64, Cl. 260—326.3.

Bowman, Robert S., and L. J. Piasecky, to The Baugh Chemical Co. Calcium phosphate catalysts and method of production. 3,149,081, 9–15–64, Cl. 252—437.

Bowman, Robert S., and L. J. Piasecky, to The Baugh Chemical Co. Calcium phosphate catalysts and method of production. 3,149,082, 9–15–64, Cl. 252—437.

Bowman, Spencer, to Koehring Co. Hose reel. 3,146,967, 9–1–64, Cl. 242—107.1

Bowman Steel Corp.: *See*—
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Caley, William S., and Harshman. 3,154,963.
Feaster, Donavon L., and Mann. 3,117,469.
Herr, Robert W., and Keck. 3,117,771.
Mann, Jabez H., Herr, Pifer, and Stoner. 3,118,599.

Bown, Delos E., and R. T. Moravek, to Esso Research and Engineering Co. Stabilization of polyolefins. 3,117,104, 1–7–64, Cl. 260—45.9.

Bown, Delos E., and H. G. Schutze, to Esso Research and Engineering Co. Stabilization of polyolefins. 3,124,555, 3–10–64, Cl. 260—45.5.

Bown, Samuel, and W. F. Eicks. Toe protector attachment. 3,126,651, 3–31–64, Cl. 36—72.

Bowness, Colin, to Raytheon Co. Biased ferromagnetic multi-port microwave circulator. 3,136,962, 6–9–64, Cl. 333—1.1.

Bowser, Robert S., and R. P. De La Chapelle, to Sylvania Electric Products Inc. Electroluminescent cell having electrical contact with increased reliability. 3,157,813, 11–17–64, Cl. 313—108.

Bowser, Robert S., and R. C. Huggins, to Sylvania Electric Products Inc. Capacitance shorting switch for electrical translating devices. 3,161,733, 12–15–64, Cl. 200—16.

Box, Richard J., and J. S. Stewart, to Hawley Products Co. Automatic felting machine and consistency control apparatus therefor. 3,152,036, 10–6–64, Cl. 162—258.

Box, Theodor: *See*—
Henninger, Karl. 3,120,322.

Boxer, Victor, to United States of America, Army. Parametric amplifier with signal circuit tuning only. 3,120,-644, 2–4–64, Cl. 330—4.9.

Boyce, Walter A., to Westinghouse Electric Corp. Apparatus and method for forming glass tube flares and tempering thereof. 3,155,481, 11–3–64, Cl. 65—104.

Boyd, Clarence. Petroleum gas-air mixer and metering means. 3,132,009, 5–5–64, Cl. 48—180.
Boyd, David R., Y. T. Sihvonen, and C. D. Woelke, to General Motors Corp. Ohmic contacts on semiconductors. 3,121,-852, 2–18–64, Cl. 338—19.
Boyd, Harry S. Method for making perforating strips. 3,132,540, 5–12–64, Cl. 76—101.
Boyd, Harry S. Apparatus for perforating sheets. 3,147,658, 9–8–64, Cl. 83—347.
Boyd, James A., to North American Aviation, Inc. Supersonic aircraft. 3,152,775, 10–13–64, Cl. 244—13.
Boyd, James W., to Packaging Corp. of America. Molded egg tray. 3,120,901, 2–11–64, Cl. 217—26.5.
Boyd, John H. Rain covering for legs. 3,137,081, 6–16–64, Cl. 36—2.
Boyd, John L., to Sinclair Research, Inc. Method for polymerizing resin-forming materials in subterranean areas. 3,152,641, 10–13–64, Cl. 166—33.
Boyd, Joseph J., to Atlantic Steel Co. Apparatus for positioning, stacking, and dispensing cotton tie buckles. 3,144,-169, 8–11–64, Cl. 221—175.
Boyd, Keith A.: *See*—
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Boyd, Lawrence M.: *See*—
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Boyd, Lawrence M., to Dominion Engineering Works Ltd. Speed limiting device for turbines. 3,140,854, 7–14–64, Cl. 253—31.
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Boyd, Malcolm R., to General Electric Co. Circuits for unimoding crossed field devices. 3,121,822, 2–18–64, Cl. 315—39.69.
Boyd, Merle R., and R. E. Edwards, to Raytheon Co. Magnetron tube with axially movable tuning means. 3,154,717, 10–27–64. Cl. 315—39.61.
Boyd, Robert N., to United States of America, Air Force. Scan and track nutation device. 3,162,056, 12–22–64, Cl. 74—86.
Boyd, Roderick, to Richard Clay and Co., Ltd. Book trimming machines. 3,137,395, 6–16–64, Cl. 214—1.6.
Boyd, Samuel N., Jr., D. J. Gale, and R. E. Starn, Jr., to E. I. du Pont de Nemours and Co. Reactive polymeric dyes containing triazine. 3,117,957, 1–14–64, Cl. 260—153.
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Boyd, Violet, and F. Lodge, to Imperial Chemical Industries Ltd. Anthraquinone derivatives containing beta-haloethyl, gamma-halopropyl, gamma-halo-beta-hydroxypropyl or gamma-halo-beta-halopropyl substituents. 3,147,287, 9–1–64, Cl. 260—373.
Boyd, Winnett, to Arthur D. Little, Inc. Nuclear steam generator for a thermo-electric power plant. 3,149,046, 9–15–64, Cl. 176—53.
Boyd, Winnett, to Arthur D. Little Inc. High temperature, solid moderated, ceramic fuelled, gas cooled, heat producing nuclear reactor. 3,151,036, 9–29–64, Cl. 176—68.
Boyd, Winnett, J. A. Paget, and V. G. Lynn, to Arthur D. Little, Inc. Fuel charging and discharging for a gas cooled, ceramic fuelled, nuclear power reactor. 3,149,045, 9–15–64. Cl. 176—30.
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Boyer, Ellis V., to S. Boyer. Oven and means for heating the interior thereof. 3,162,753, 12–22–64, Cl. 219—399.
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Boyer, Floyd J., and R. J. Wente, to General Motors Corp. Turboprop engine control with underspeed governor. 3,155,-165, 11–3–64, Cl. 170—135.74.
Boyer, George L., to United States of America, Navy. Underwater acoustic intensity meter. 3,158,831, 11–24–64, Cl. 340—5.
Boyer, George W., to Consolidated Electrodynamics Corp. Tape transport system. 3,140,062, 7–7–64, Cl. 242—76.
Boyer, Jackson S., to Sun Oil Co. Fumigant-extended polyurethane foams and the process of making. 3,127,312, 3–31–64, Cl. 167—42.
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Boyle, John M., and E. J. Donaldson, to United States of America, Navy. Conductive springs and ball acceleration switch. 3,141,936, 7–21–64. Cl. 200—61.53.
Boyle, Milford J., and J. S. Zsiga. Liquid dispenser. 3,163,332, 12–29–64, Cl. 222—180.
Boyle, Richard J., to American Cyanamid Co. Salicyloyl pyridines. 3,117,129, 1–7–64, Cl. 260—297.
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Boyle, Robert E., to Service Pipe Line Co. Fluid meter calibrator. 3,120,118, 2–4–64, Cl. 73—3.
Boyle, Thomas C., to United States of America, Navy. Adjustable missile snubber. 3,148,586, 9–15–64, Cl. 89—1.7.
Boyle, Willard S., and D. G. Thomas, to Bell Telephone Laboratories, Inc. Optical maser. Re. 25,632, 8–18–64, Cl. 88—1.
Boyles, Nesbit A., to Overhead Door Corp. Lock and latch means for upwardly acting doors and the like. 3,163,033, 12–29–64. Cl. 70—100.
Boyles, Robert L., to General Electric Co. Electrical switch including viscously damped timing device. 3,118,027, 1–14–64, Cl. 200—34.
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Brackett, Lawrence W., to Wood Electric Corp. Heat responsive wire circuit breaker. 3,142,737, 7–28–64, Cl. 200—116.

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Braconier, Frederic F. A., and J. J. L. E. Riga, to Societe Belge de l'Ayote et des Produits Chimiques. Solid metal block reaction furnace for treatment of hydrocarbons. 3,121,616, 2–18–64, Cl. 23—277.

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Bradd, Ernest, to William Gluckin & Co., Inc. All-way stretch fabric girdle with side latex reinforcements. 3,133,542, 5–19–64, Cl. 128—555.

Bradd, Ernest, to William Gluckin & Co., Inc. Reinforced fabric girdle and method of producing the same. 3,133,543, 5–19–64, Cl. 128—580.

Bradd, Ernest, to William Gluckin & Co., Inc. All-way stretch fabric girdle with front and back latex reinforcements. 3,157,183, 11–17–64, Cl. 128—533.

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Bradley, John S., and T. F. Moore, to The Atlantic Refining Co. Gas lift boils detection. 3,153,147, 10–13–64, Cl. 250—83.3.

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Bradt, Lynn, to SI Handling Systems, Inc. Train and automatic separation means for vehicles thereof. 3,150,609, 9–29–64, Cl. 104—172.

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Brady, Jules L., deceased, by H. E. Brady, executrix, to Ransburg Electro-Coating Corp. Electro spray apparatus and method. 3,130,066, 4–21–64, Cl. 117—93.43.
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Brainard, Edward C., II, and Converse. 3,137,264.
Brainerd, Henry B. Identification system. 3,145,291, 8–18–64, Cl. 235—61.11.
Brainin, Samuel M., and F. Vyzralek, Jr., to North American Aviation, Inc. Search controller. 3,135,955, 6–2–64, Cl. 343—7.
Braithwaite & Co. Engineers Ltd.: *See*—
Ostrowski, Janusz M. 3,132,706.
Braithwaite, David G., J. S. D'Amico, P. L. Gross, and W. Hanzel, to Nalco Chemical Co. Cell for carrying out electrochemical reactions. 3,141,841, 7–21–64, Cl. 204—263.
Braithwaite, John C.: *See*—
Forsyth, George H., Ashley, and Braithwaite. 3,140,863.
Braithwaite, Robert C., and F. N. M. Sergeant, to Smiths America Corp. Electrical system for maintenance of mechanical oscillations. 3,123,755, 3–3–64, Cl. 318—132.
Brajer, Victor: *See*—
Berks, William I., and Brajer. 3,138,001.
Brakeley, Paul W., Jr.: *See*—
Proctor, Fred S., Smarr, Brakeley, and Mountain. 3,133,848.
Bram, Walter, to Paliz-Holding AG. Stripping device for knitting machine. 3,153,922, 10–27–64, Cl. 66—64.
Braman, Robert S.: *See*—
De Ford, Donald D., and Braman. 3,162,585.
Brambier, Irving. Cards selectively usable for playing a game or for producing a motion picture effect. 3,159,405, 12–1–64, Cl. 273—152.2.
Brame, James M.: *See*—
Brame, James T. and J. M. 3,161,962.
Brame, James T., and J. M. Brame. Level. 3,160,962, 12–15–64, Cl. 33—215.
Bramel, Hadley R. Sedimentation apparatus and method for determining particle size distribution. 3,144,773, 8–18–64, Cl. 73—432.
Bramley, Lionel N., W. N. Jenkins, L. J. Chant, and F. Seredynski, to The British Iron and Steel Research Assn. Control system for controlling a manipulator for moving ingots. 3,139,569, 6–30–64, Cl. 318—28.
Brammer, Karl: *See*—
Bahring, Herbert, Schwerer, and Brammer. 3,151,820.
Brammerlo, Allen A., and H. C. Stout, to General Electric Co. Stator for two speed induction type motor. 3,153,183, 10–13–64, Cl. 318—224.
Bramming, Carl, to Aladdin Industries, Inc. Combination folding seat and lunch box or other carrying case. 3,120,404, 2–4–64, Cl. 297—118.
Bramming, Carl, to Aladdin Industries, Inc. Closure for vacuum bottles. 3,153,490, 10–20–64, Cl. 215—47.
Bramming, Carl, to Aladdin Industries Inc. Vacuum bottle having resiliently compressible gasket. 3,163,307, 12–29–64, Cl. 215—13.
Bramson, Clive H.: *See*—
Hornwood, Carl G. 3,137,268.
Maraventano, Eugene. 3,133,510.
Stone, Arthur H. 3,161,322.
Bran & Lubbe Wasseraufbereitung Maschinen- und Apparatebau: *See*—
Galster, Helmuth. 3,121,614.
Branagan, Edward F., and M. E. Shindledecker, to United States of America, Navy. Inertia electro-magnetic generator. 3,153,735, 10–20–64, Cl. 310—15.
Brancato, Jack J.: *See*—
Orsino, Joseph A., Herman, and Brancato. 3,121,698.
Branch, Robert E., and R. M. Reddin, to Chapman Chemical Co. Applicator for controlling bandages for preserving pole tops. 3,121,608, 2–18–64, Cl. 21—61.
Branch, Sidney J., to The Distillers Co. Ltd. Production of aceto-acetarylamides. 3,121,743, 2–18–64, Cl. 260—562.
Brand, Boris P., to Imperial Chemical Industries Ltd. Preparation of delta copper phthalocyanine. 3,150,150, 9–22–64, Cl. 260—314.5.
Brand, Jay J., to Pittsburgh Plate Glass Co. Glass cutter assembly. 3,126,636, 3–31–64, Cl. 33—32.
Brand, Jay J., to Pittsburgh Plate Glass Co. Glass snapping apparatus. 3,142,427, 7–28–64, Cl. 225—104.
Brand, Jay J., to Pittsburgh Plate Glass Co. Glass-scoring and breaking apparatus. 3,151,794, 10–6–64, Cl. 225—96.5.
Brand, John R.: *See*—
Thomas, Howard M., Bode, and Brand. 3,155,760.
Brand, John R., to The Wurlitzer Co. Electronic organ stop switching. 3,151,203, 9–29–64, Cl. 84—1.19.
Brand, Robert A.: *See*—
Alsager, Leslie E., and Brand. 3,125,975.
Brand, Warren H., to Conoflow Corp. Control system. 3,157,994, 11–24–64, Cl. 60—52.
Brand, William J., and R. T. Sullivan, to Varian Associates. Adjustable gap magnet. 3,134,933, 5–26–64, Cl. 317—158.
Branda, Ronald A. Opener and spout for milk cartons and the like. 3,143,248, 8–4–64, Cl. 222—81.
Brandell, John R. Golf practice device with solenoid-actuated ball return means. 3,134,597, 5–26–64, Cl. 273—179.
Brandell, John R. Solenoid kicker. 3,134,934, 5–26–64, Cl. 317—191.
Brandenberg, Karl A., to Square D Co. Trip free overload relay. 3,147,351, 9–1–64, Cl. 200—116.
Brandenburg, Ewald, A. Pohle, and K. Görlich, to Huttenwerk Oberhausen Aktiengesellschaft. Machines for the continuous simultaneous rolling of several wires with alternating vertical and horizontal stands arranged one behind the other. 3,122,949, 3–3–64, Cl. 80—35.

Brandes, Arthur, R. W. Sitler, and B. B. Tromble, to Ekco Products Co. Locker. 3,133,772, 5–19–64, Cl. 312—108.

Brandes, Edward P.: *See*—
Hartop, William L., Jr., and Brandes. 3,133,858.

Brandes, Raymond E.: *See*—
Kinsey, Eugene E., Brandes, Evans, and Whitfield. 3,155,437.

Brandiff, John S.: *See*—
Du Brow, Paul L., and Brandiff. 3,154,489.

Brandin, Charles I., to Charles I. Brandin, Inc. Venetian blinds. 3,129,750, 4–21–64, Cl. 160—168.

Brandin, Charles I., Inc.: *See*—
Brandin, Charles I. 3,129,750.

Brandl, Willi, to Amplector Aktiengesellschaft. Sliding fastener. 3,159,889, 12–8–64, Cl. 24—201.

Brandmeier, Maximilian: *See*—
Maurer, Gisela H., Brandmeier, and Lichtner. 3,126,197.

Brandon, Arthur H. Tubing tester with ratchet contacts. 3,139,686, 7–7–64, Cl. 33—178.

Brandon, Chester, and A. R. Piatt, to General Precision Inc. Control apparatus for projectile launching. 3,126,473, 3–24–64, Cl. 235—61.5.

Brandon, Clarence W., 12½% to O. Brandon, 5% to H. B. Jacobson, and 50% to N. H. Hardin, C. H. Newton, and H. H. Wright. Method and apparatus for forming and/or augmenting an energy wave. 3,133,591, 5–19–64, Cl. 166—39.

Brandon, Clarence W., 12½% to O. B. Brandon, 5% to H. B. Jacobson, and 50% to N. A. Hardin, C. H. Newton, and H. H. Wright. Method and apparatus for vibratory drilling. 3,138,213, 6–23–64, Cl. 175—65.

Brandon, Clarence W., 12½% to O. B. Brandon, and 50% to N. A. Hardin and H. H. Wright. Method and apparatus for forming and/or augmenting an energy wave. 3,141,099, 7–14–64, Cl. 310—4.

Brandon Equipment Co., Inc.: *See*—
Packard, Durward I. 3,140,850.

Brandon, Orpha: *See*—
Brandon, Clarence W. 3,133,591.
Brandon, Clarence W. 3,141,099.

Brandon, Orpha B.: *See*—
Brandon, Clarence W. 3,138,213.

Brandon, Theodore A. Lumber sorting and accumulating mechanisms. 3,116,835, 1–7–64, Cl. 209—90.

Brandon, Theodore A. Lumber accumulators. 3,155,245, 11–3–64, Cl. 214—16.

Brandstadter, Jack M., to Cadillac Gage Co. Linear actuator. 3,141,388, 7–21–64, Cl. 92—51.

Brandt Automatic Cashier Co.: *See*—
Buchholz, Arnold R. 3,138,166.
Buchholz, Arnold R., and Johnson. 3,131,702.
Hoffman, Otis E., Wallman, and Buchholz. 3,144,987.

Brandt, Carl D., to Whitin Machine Works. Method of preparing laps for combing machines. 3,128,506, 4–14–64, Cl. 19—115.

Brandt, Carl T., and W. R. Bowles, to Phillips Petroleum Co. Sealing of porous and fissured formations with cationic asphalt emulsions. 3,159,976, 12–8–64, Cl. 61—36.

Brandt, Harry, and J. F. Chittum, to California Research Corp. Method and apparatus for heating liquid for hot water flooding. 3,125,072, 3–17–64, Cl. 122—4.

Brandt, Kurt: *See*—
Keller, Siegfried, and Brandt. 3,122,465.

Brandt, Ove, to The Plymouth Corp. Collapsing die head with trip means selectively positioned to permit manual collapse. 3,142,076, 7–28–64, Cl. 10—96.

Brandt, Richard W., Jr. Tree clamp with vibratory mechanism and frame. 3,163,458, 12–29–64, Cl. 294—88.

Brandt, Robert E.: *See*—
Schaab, Rudolph S., and Brandt. 3,119,603.

Brandt, Robert E., to Amphenol-Borg Electronics Corp. Pile fabric knitting machine for striped pile. 3,122,904, 3–3–64, Cl. 66—9.

Brandt, Thomas F., Jr., to General Electric Co. Electric fuse with a plurality of fusible elements arranged in radically spaced groups. 3,153,713, 10–20–64, Cl. 200—132.

Brandt, William E., to International Business Machines Corp. Single bit recording technique. 3,131,383, 4–28–64, Cl. 340—174.1.

Brandt, William E., and W. P. Margopoulos, to International Business Machines Corp. Analog voltage memory. 3,119,984, 1–28–64, Cl. 340—173.

Brandwood, John T., to Dye Tube Developments Ltd. Yarn dyeing apparatus. 3,157,039, 11–17–64, Cl. 68—198.

Branick, Charles E. Truck tire spreading and inverting device. 3,130,957, 4–28–64, Cl. 254—50.3.

Branick, Charles E. Curing and testing rim for pneumatic tire casings. 3,133,317, 5–19–64, Cl. 18—45.

Branick, Charles E. Shock absorber testing and condition indicating device. 3,157,044, 11–17–64, Cl. 73—11.

Branick, Charles E. Quick release bumper jack. 3,159,085, 12–1–64, Cl. 91—451.

Branneman, Leonard. Educational toy satellite system. 3,138,381, 6–23–64, Cl. 273—95.

Brannfors, Sten H., and C. Y. H. Alberts, to Skanska Cementgjuteriet AB. Rock-tunneling apparatus. 3,153,510, 10–20–64, Cl. 239—286.

Brannock, Kent C., and R. D. Burpitt, to Eastman Kodak Co. Tetraalkyl esters of 6-dialkylamino-5,5-dialkylcyclohexane-1,1,3,3-tetracarboxylic acids and the process for their preparation. 3,135,740, 6–2–64, Cl. 260—239.

Brannock, Kent C., and R. D. Burpitt, to Eastman Kodak Co. Acetylenic amines. 3,156,726, 11–10–64, Cl. 260—570.8.

Branscome, Kenneth M., to Sperry Rand Corp. Document sensing device. 3,149,835, 9–22–64, Cl. 271—62.

Branson, Charles D.: *See*—
Wantz, Clarence, Branson, and Willson. 3,132,803.

Branson, Charles D., and C. Wantz, to Robertshaw Controls Co. Thermostatic control device. 3,155,316, 11–3–64, Cl. 236—48.

Branson Instruments, Inc.: *See*—
Carlin, Benson. 3,117,768.
Harris, Robert V. 3,148,536.
Uphoff, Russel L., and Relyea. 3,153,928.

Branson, Lane K.: *See*—
Schultz, Robert D., Branson, and Chaiken. 3,122,882.

Branson, Orland D., and P. H. Bush, to The Bendix Corp. Variable-pressure hydraulic control system. 3,125,856, 3–24–64, Cl. 60—52.

Brant, Joseph H., and J. F. Migliarese, to Colgate-Palmolive Co. Iontophoresis apparatus. 3,163,166, 12–29–64, Cl. 128—405.

Brant, Robert J. Water ski tow line connector. 3,148,655, 9–15–64, Cl. 115—6.1.

Brant, Russell G.: *See*—
Brockerman, Lawrence, and Brant. 3,126,308.

Brantley, Larry F.: *See*—
Brantley, Willie G. and L. F. 3,121,974.

Brantley, Willie G. and L. F. Power tree chipper and sprayer. 3,121,974, 2–25–64, Cl. 47—12.

Brantner, Andreas: *See*—
Kohler, Ernst, Bastam, and Brantner. 3,140,140.

Brasco Mfg. Co.: *See*—
Wheeler, James D. 3,141,204.
Wheeler, James D and Anderson. 3,124,848.

Brase, George. Wrench for removing threaded pipe nipples. 3,151,511, 10–6–64, Cl. 81—53.

Brase, George. Valved siphon. 3,152,341, 10–13–64, Cl. 4—206.

Brasen, Wallace R., to E. I. du Pont de Nemours and Co. 1,2-diamino-1,2-dithioethylenes and their preparation. 3,122,539, 2–25–64, Cl. 260—247.1.

Brasfield, Buel T., and W. R. Potter. Expandable hoop fixture. 3,149,597, 9–22–64, Cl. 113—102.

Braskamp, Willem H., to Industriele Onderniming W. H. Braskamp, N. V. Table ventilator. 3,157,639, 9–8–64, Cl. 74—600.

Braskamp, Willem H., to Industriele Onderneming W. H. Braskamp N.V. Ceiling ventilator. 3,160,020, 12–8–64, Cl. 74—86.

Brass, Edward A., to Avco Corp. Multi-speed gear reduction transmission. 3,150,544, 9–29–64, Cl. 74—762.

Brass Products Co.: *See*—
Marentette, Sylvain J. 3,160,388.

Brass, Robert L., and A. Feiner, to Orbicon, Ltd. Game apparatus for simulating skiing. 3,159,400, 12–1–64, Cl. 273—1.

Brass, William C. Clinical thermometer cleaning device. 3,137,877, 6–23–64, Cl. 15—21.

Brass, William C. Thermometer carrier. 3,138,263, 6–23–64, Cl. 211—60.

Brass, William D. Receiver for spent shells. 3,153,981, 10–27–64, Cl. 89—33.

Brassaw, Alden J.: *See*—
Weller, Carl E., Fegley, and Brassaw. 3,156,837.

Brassel, Jakob, and M. Staeuble, to Ciba Corp. New dyestuffs of the anthraquinone series containing a chlorotriazine substituent. 3,133,921, 5–19–64, Cl. 260—249.

Brastad, William A., to General Mills, Inc. End closure comprised of liner and carton flaps. 3,136,471, 6–9–64, Cl. 229—14.

Bråten, Kjell. Stabilizing arrangement for power boats. 3,124,094, 3–10–64, Cl. 114—66.5.

Brater, Donald C.: *See*—
Smiley, Seymour H., Brater, and Littlefield. 3,150,924.

Bratt, Lars S., L. J. Hov, and G. A. Louis, to Stauffer Chemical Co. Process for making boron trichloride. 3,152,869, 10–13–64, Cl. 23—205.

Bratton, Cleon: *See*—
Honan, Paul R., and Bratton. 3,147,098.

Bratton, Francis H.: *See*—
Goepfert, George J., Bratton, and Zolg. 3,149,021.

Bratton, Raymond F.: *See*—
Marshall, Mervin D., and Bratton. 3,139,327.

Bratton, Raymond F., to Callery Chemical Co. Process for the alkylation of decaborane. 3,139,459, 6–30–64, Cl. 260—606.5.

Bratton, Richard E., to Harbison-Walker Refractories Co. Process and apparatus for making perforated bricks. 3,127,459, 3–31–64, Cl. 264—154.

Bratz, Otto J.: *See*—
Peterson, Vincent C. J., Bratz, and Layton. 3,130,536.

Bratz, Otto J., to American Chain & Cable Co., Inc. Push-pull cable casings. 3,130,754, 4–28–64, Cl. 138—133.

Bratz, Otto J., to American Chain & Cable Co., Inc. Push-pull cable. 3,135,132, 6–2–64, Cl. 74—501.

Bratz, Otto J., to American Chain & Cable Co., Inc. Ball bearing push-pull cable. 3,154,966, 11–3–64, Cl. 74—501.

Brau, Maurice J.: *See*—
Bailey Louis G., Brau, and Hilton. 3,154,424.

Brauchla, Herbert C., and P. P. Ruminsky; said Ruminsky assor. to said Brauchla. Method and apparatus for dry sizing. 3,141,844, 7–21–64, Cl. 209—247.

Brauchle, Edwin J. Cutlery serrating apparatus. 3,143,829, 8–11–64, Cl. 51—98.
Brauchle, Mildred: *See*—
Brauchle, Milton J. 3,122,282.
Brauchle, Milton J., deceased; M. Brauchle, administratix, to Universal Fertilizer Equipment Mfg. Co., Inc. Fertilizer distributor or planter. 3,122,282, 2–25–64, Cl. 222—368.
Brauck, Clifford D., to Stewart-Warner Corp. Hydraulic hose and coupling. 3,140,884, 7–14–64, Cl. 285—242.
Braucksiek, Henry C.: *See*—
Dykzeul, Theodore J., and Braucksiek. 3,151,759.
Braucla, Herbert C.: *See*—
Ruminsky, Paul P. 3,127,625.
Braudorn, Karl H., to Continental Gummi-Werke Aktiengesellschaft. Detachable anti-skid means for rubber tires of vehicles. 3,118,481, 1–21–64, Cl. 152—222.
Brauer, Frederick N., to Philco Corp. Pulse generator employing a recurrently operable one-shot multivibrator. 3,154,-752, 10–27–64, Cl. 331—113.
Brauer, Gerhard W., to Resdel Engineering Corp. Cavity amplifier with annular grid cavity. 3,122,712, 2–25–64, Cl. 330—56.
Brault, Andre R., and A. K. Chitayat, to Optomechanisms, Inc. Remote film viewer. 3,143,589, 8–4–64, Cl. 88—31.
Brault, Robert G., and G. F. Huff, to Callery Chemical Co. Preparation of high energy boron containing fuels. 3,124,-617, 3–10–64, Cl. 260—606.5.
Braun Aktiengesellschaft: *See*—
Futterer, Bodo. 3,155,855.
Braun, Anton. Free piston machine. 3,134,372, 5–26–64, Cl. 132—46.
Braun, Arthur R. Gameboard with playing piece compartment. 3,149,843, 9–22–64, Cl. 273—136.
Braun, C. F., & Co.: *See*—
McCauley, William H. 3,118,575.
Braun, David H., to All-Tech Industries Inc. Animated moving target. 3,163,420, 12–29–64, Cl. 273—105.2.
Braun, Edward L.: *See*—
Bible, Robert E., Braun, Cass, McIntyre, and Williamson. 3,155,816.
Braun, Ernest, and J. E. Logun, to Chemway Corp. Stable depilatory compositions. 3,154,470, 10–27–64, Cl. 167—89.
Braun, Frank R.: *See*—
Perkins, James M., Graf, and Braun. 3,136,842.
Braun, G. A., Inc.: *See*—
Hertig, Max, and Werner. 3,159,016.
Werner, Howard J., Hertig, and Du Pree. 3,129,576.
Braun, Gabriel: *See*—
Speranza, Peter, and Braun. 3,120,042.
Braun, Günther: *See*—
Muller, Erwin, Bayer, Braun, and Scheurlen. 3,134,755.
Nischk, Günther, Braun, and Hoppe. 3,138,562.
Braun, Karl J., to A. Kimball Co. Record analyzing apparatus. 3,128,372, 4–7–64, Cl. 235—61.11.
Braun, Kurt: *See*—
Bauder, Ulrich, and Braun. 3,116,801.
Braun, Leonard A., to E. J. Longyear Co. Underground wire line core barrel apparatus. 3,120,283, 2–4–64, Cl. 175—246.
Braun, Marinus J., to Air Reduction Co., Inc. Resistor. 3,134,954, 5–26–64, Cl. 338—66.
Braun, Michael F.: *See*—
Brumfield, Elvin S., and Braun. 3,163,760.
Braun, Oskar, R. Frank, and F. Osterloh, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of water-insoluble azodyestuffs. 3,120,508, 2–4–64, Cl. 260—161.
Braun, Ottwin L., to Reliance Steel Products Co. Forced circulation water-cooled door. 3,155,080, 11–3–64, Cl. 122—498.
Braun, Ottwin L., to Reliance Steel Products Co. Forced circulation water-cooled furnace door. 3,156,218, 11–10–64, Cl. 122—498.
Braun, Philip N., and J. A. Filsinger; said Filsinger assor. to said Braun. Machine for affixing identification tags to garments. 3,150,577, 9–29–64, Cl. 93—88.
Braun, Poul B., and W. Kwestroo, to North American Philips Co., Inc. Ferromagnetic material. 3,117,935, 1–14–64, Cl. 252—62.5.
Braun, Robert A., to E. I. du Pont de Nemours and Co. Tetraalkenyl-1,4-dioxanes. 3,133,087, 5–12–64, Cl. 260—260—340.6.
Braun, Robert A., to E. I. du Pont de Nemours and Co. Coating compositions. 3,157,525, 11–17–64, Cl. 106—287.
Braun, Robert A., to E. I. du Pont de Nemours and Co. Copolymers of a vinyl substituted ethylene glycol. 3,157,-623, 11–17–64, Cl. 260—80.5.
Braun, Roland, to Brown, Boveri & Cie, Aktiengesellschaft. Arrangement with phase-dependent measurement particularly for relays. 3,131,329, 4–28–64, Cl. 317—27.
Braun, Samuel, to B.C.N. Design Products Inc. Hinged watch box. 3,157,278, 11–17–64, Cl. 206—75.
Braun, Samuel, to Sperry Rand Corp. Specialty box. 3,161,-315, 12–15–64, Cl. 220—4.
Braun, W., Co.: *See*—
Lerner, Nathan B. 3,140,014.
Braun, Werner: *See*—
Berger, Frank M., Hubbard, and Braun. 3,132,995.
Braun, Wilhelm, and W. Zehnder, to Inventa A.G. fur Forschung und Patentverwertung. Process for extraction of monomeric caprolactam from its polymer. Re. 25,640, 9–15–64, Cl. 260—239.3.
Braun, Willy: *See*—
Hartwig, Ernst, and Braun. 3,137,699.
Braun, Willy, and H. Weissauer, to Badische Anilin- & Soda Fabrik Aktiengesellschaft. Anthraquinone dyes containing an alpha-halotosylamido or alpha-halotoluylamido substituent. 3,121,755, 2–18–64, Cl. 260—372.
Braun, Willy, W. Ruppel, and R. Mecke, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Reduction of linear-trans quinacridone-quinone. 3,147,263, 9–1–64, Cl. 260—279.
Braunagel, Magnus V., to Small Business Administration. Explosion proof switch. 3,162,731, 12–22–64, Cl. 200—11.
Braune, Gerhard: *See*—
Kirchner, Willi, and Braune. 3,158,942.
Braunhut, Harold N. Ocular toy device. 3,119,195, 1–28–64, Cl. 46—1.
Braunhut, Harold N. Amusement device simulating a dagger projecting from a pool of blood. 3,132,859, 5–12–64, Cl. 272—8.
Brauning, Howard E. Animal table. 3,120,836, 2–11–64, Cl. 119—103.
Braunlich, Frank H., Jr.: *See*—
Means, James O., Braunlich, and Hendrickson. 3,134,436.
Braunlin, Robert J.: *See*—
Hunter, Charles A., Jr., Braunlin, Lansford, and Knoebel. 3,120,227.
Braunsberg, Heinz. Vending machines. 3,124,397, 3–10–64, Cl. 312—97.1.
Braunsberg, Heinz. Vending machines. 3,135,567, 6–2–64, Cl. 312—97.1.
Braunschweig, Georges: *See*—
Marti, Frederic, and Braunschweig. 3,121,811.
Braunschweigische Maschinenbauanstalt A.G.: *See*—
Dietzel, Walter M., and Hillebrand. 3,151,072.
Braunstein, Rubin: *See*—
Steele, Martin C., and Braunstein. 3,160,762.
Braunwarth, John B.: *See*—
Rai, Charanjit, and Braunwarth. 3,142,675.
Rai, Charanjit, and Braunwarth. 3,154,490.
Rai, Charanjit, Braunwarth, and Kimble. 3,154,596.
Braunwarth, John B., and C. Rai, to The Pure Oil Co. Process for refining and deodorizing petroleum fractions. 3,120,486, 2–4–64, Cl. 208—189.
Braunwarth, John B., and L. W. Holm, to The Pure Oil Co. Solvent flood secondary recovery method. 3,121,460, 2–18–64, Cl. 166—9.
Braus, Harry, and O. A. Homberg, to National Distillers and Chemical Corp. Bi(O-hydroxybenzoyl)phenyl compounds. 3,146,269, 8–25–64, Cl. 260—591.
Brautigam, John J.: *See*—
Anderson, James D., Brautigam, and Cohen. 3,135,043.
Brautigam, Olof A., to Elektriska Svetsningsaktiebolaget. Wire coiling. 3,145,760, 8–25–64, Cl. 153—64.
Brautigam, Rudolf G., to The American Agricultural Chemical Co. Manufacture of pyrophosphoryl chloride. 3,124,-420, 3–10–64, Cl. 23—203.
Brautigam, Rudolf G., and E. Jacoves, to American Agricultural Chemical Co. Chloroorganopyrophosphates. 3,132,-170, 5–5–64, Cl. 260—461.
Bravenec, Frank R., to Houston Instrument Corp. Logarithmic frequency discriminator circuits. 3,120,647, 2–4–64, Cl. 331—16.
Braverman, Robert P., to M. I. Glass. Toy vehicle track. 3,139,237, 6–30–64, Cl. 238—10.
Braverman, Robert P., to M. I. Glass. Toy. 3,159,109, 12–1–64, Cl. 104—148.
Brawerman, Marvin, to Airheart Products, Inc. Braking mechanism. 3,155,195, 11–3–64, Cl. 188—73.
Brawner, Carle C.: *See*—
Taylor, Daniel D., and Brawner. 3,155,553.
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Halton, James E. 3,147,217.
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Brewer, Stuart D., and R. P. De Sieno, to General Electric Co. Process for the production of organopolysiloxane resins using certain ammonium compounds. 3,135,713, 6–2–64, Cl. 260—40.5.

Brewer, Warren, and J. E. Hinman, to Standard Oil Co. Sulfuric acid alkylation with mixed olefin feed. 3,133,975, 5–19–64 Cl. 260—683.46.

Brewer, Willie F., to Dealer Associates, Inc. Blade holder for disc type mowers. 3,158,978, 12–1–64, Cl. 56—295.

Brewin, Arthur, and D. C. Masters, to N. Corah (St. Margaret) Ltd. Pneumatic distributing system. 3,163,470, 12–29–64, Cl. 302—28.

Brewin, Donald A., to General Dynamics Corp. Pulse repeater employing alternately conducting devices responsive to control means alternately priming and cutting-off said devices. 3,158,814, 11–24–64, Cl. 328—210.

Brewin, Grant H., to Proctor Hydro-Set Co. Textile-treating system and method of dispensing. 3,125,248, 3–17–64, Cl. 222—1.

Brewster, Arthur E., to International Standard Electric Corp. Magnetic information storage arrangements. 3,136,981, 6–9–64, Cl. 340—174.

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Brice, Herbert J., Jr., H. G. Houlton, and S. H. Morgan, to Ashland Oil & Refining Co. Process for producing an improved asphalt. 3,131,140, 4–28–64, Cl. 208—4.

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Brichard, Edgard, M. Charue, and G. Simon, to Union des Ververies Mecaniques Belges Societe Anonyme. Apparatus for cutting sheet glass. 3,127,680, 4–7–64, Cl. 33—32.

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Brick, Robert M., R. A. Larson, C. E. Maier, and E. I. Valyi, to Continental Can Co., Inc. Method of forming container bodies and product thereof. 3,133,517, 5–19–64, Cl. 113—120.

Bricker, Carl E., to The Goodyear Tire & Rubber Co. Spring applied brake. 3,155,199, 11–3–64, Cl. 188—170.

Brickett, Sherman P., and H. N. Hoffman, to General Electric Co. Torque-limiting shaft coupling assembly. 3,141,-313, 7–21–64, Cl. 64—27.

Brickett, Sherman P., and E. D. Heter, to General Electric Co. Reduction gear with circular casing. 3,149,504, 9–22–64, Cl. 74—606.

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Bridger, Grover L., and N. K. Alfrey, to W. R. Grace & Co. Process for production of non-burning fertilizer. 3.125,411, 3–17–64, Cl. 23—105.

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Briechle, Joseph, to Scovill Mfg. Co. Aerosol valve-fast pressure fill type. 3,158,298, 11–24–64, Cl. 222—394.

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Broadwell, Robert J., to Maremont Corp. Outboard propulsion unit steering assist apparatus. 3,149,605, 9–22–64, Cl. 115—18.
Broadwell, Robert J., to Maremont Corp. Hydraulic pressure reservoir. 3,149,645, 9–22–64, Cl. 138—30.
Broadwell, Robert J., to Maremont Corp. Self-dumping suspension unit. 3,149,830, 9–22–64, Cl. 267—64.
Broberg, Georg, B. Johansson, and S. Wallin, to Aktiebolaget Svenska Flaktfabriken. Duct coupling for joining ducts. 3,141,687, 7–21–64, Cl. 285—397.
Brocard, Jean M. R. Aircraft. 3,128,062, 4–7–64, Cl. 244—23.
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Brock, Geoffrey E., and G. A. Silvey, to International Business Machines Corp. Selective removal of impurities from semiconductor bodies. 3,162,557, 12–22–64, Cl. 148—191.
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Brockman, Francis J., J. D. Murdock, and N. Nelan, to Canadian Industries Ltd. Polymer blends of vinyl polymers with oil-modified alkyd resins. 3,139,411, 6–30–64, Cl. 260—22.
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Broder, Leonard. Trouble light guard. 3,119,568, 1–28–64, Cl. 240—102.
Broderick, John F., N. G. Tompkins, and M. Nimoy, to W. R. Grace & Co. Flexible printing plates with improved printing surfaces. 3,147,705, 9–8–64, Cl. 101—379.
Broderick, John P., and J. F. Quaas, to Eutectic Welding Alloys Corp. Starting block for arc welding. 3,140,384, 7–7–64, Cl. 219—136.
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Brody, Herbert M., to General Electric Co. Refrigeration system including charge checking means. 3,162,021, 12–22–64, Cl. 62—292.
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Brodzinsky, Albert, J. B. Reynolds, Jr., and I. M. Saffitz. Automatic carrier controlled approach system. 3,131,018, 4–28–64, Cl. 343—6.
Broecker, Ernst R. A. F., to Bahco Aktiebolaget. Portable stoves for burning gaseous fuel. 3,145,704, 8–25–64, Cl. 126—38.
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Broerman, Arthur B., to Phillips Petroleum Co. Pneumatic amplifier sampling valve for chromatographic analyzers. 3,140,615, 7–14–64, Cl. 73—422.

Broerman, Arthur B., to Phillips Petroleum Co. Temperature control system. 3,148,532, 9–15–64, Cl. 73—23.

Broers, Gerard H. J., to Nederlandse Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek ten behoeve van Nijverheid Handel en Verkeer. Fuel cell electrolyte. 3,120,456, 2–4–64, Cl. 136—86.

Broers, Wiley G. Crib motivator having adjustable mounting bracket. 3,159,851, 12–8–64, Cl. 5—109.

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Broida, Daniel, to Sigma Chemical Co. Tris (hydroxy methyl) amino methane salts of nucleotides. 3,152,116, 10–6–64, Cl. 260—211.5.

Brois, Stanley J., and A. J. Rutkowski, to Esso Research and Engineering Co. Preparation of amines. 3,147,310, 9–1–64, Cl. 260—583.

Broisman, Raymond, to American Cyanamid Co. Removal of iron from aqueous aluminum sulfate solution. 3,141,-733, 7–21–64, Cl. 23—123.

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Brollo, Giuseppe. Washing machine with hydraulically operated spray arm for dishes and utensils. 3,135,272, 6–2–64, Cl. 134—57.

Brollo, Giuseppe. Hydraulic servo-mechanism. 3,149,538, 9–22–64, Cl. 91—337.

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Bromer, Heinz, and N. L. Meinert, to Ernst Leitz, G.m.b.H. Optical glass. 3,143,432, 8–4–64, Cl. 106—54.

Bromfield, Morton S., and J. D. Ferner. Shoe making apparatus. 3,161,898, 12–22–64, Cl. 12—1.

Bromley, James E., to Monsanto Co. Apparatus for treating filament yarn. 3,137,911, 6–23–64, Cl. 28—1.

Bromley, Kenneth W., to General American Transportation Corp. Blanks for ready erection into box-like containers. 3,145,904, 8–25–64, Cl. 229—39.

Bromwell, Theodore R. Merchandise inventory control means. 3,123,385, 3–3–64, Cl. 283—55.

Bronaugh, Hugh J., to Vitro Corp. of America. Purification of europium. 3,153,571, 10–20–64, Cl. 23—22.

Bronfman, Benjamin. Means for supplying buttons to a sewing point. 3,157,311, 11–17–64, Cl. 221—186.

Bronleewe, Robert H. Tow hitch. 3,147,027, 9–1–64, Cl. 280—491.

Bronner, John. Telescoping folding boats. 3,123,841, 3–10–64, Cl. 9—2.

Bronson, Charles L., to Varel Mfg. Co., Inc. Replaceable drill bit structures. 3,139,946, 7–7–64, Cl. 175—412.

Bronson, Eldon L., and K. L. Eames, to Kel, Inc. Automobile body and part straightening tool. 3,122,194, 2–25–64, Cl. 153—32.

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Bronson, Irving, to American Machine & Foundry Co. Self-leveling devices. 3,123,024, 3–3–64, Cl. 108—136.

Bronson, Irving, to American Machine & Foundry Co. Self-leveling device. 3,123,218, 3–3–64, Cl. 211—49.

Bronson, Irving, to American Machine & Foundry Co. Self-leveling device. 3,123,829, 3–3–64, Cl. 108—136.

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Brook, Abraham J., E. F. Wodarski, and S. Holdowsky, to Olin Mathieson Chemical Corp. Culture tube. 3,134,725, 5–26–64, Cl. 195—139.

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Brooke, Edric R., to Molins Machine Co. Ltd. Collecting mechanism. 3,144,925, 8–18–64, Cl. 198—24.

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Brooke, Jesse M., to Phillips Petroleum Co. Hydrocarbon sweetening. 3,117,077, 1–7–64, Cl. 208—195.

Brooke, Norman E. Combined coat and trouser hanger with flat metal connecting member. 3,120,331, 2–4–64, Cl. 223—91.

Brooke, Norman E. Combined coat and trouser hanger having bent wire connecting member. 3,143,261, 8–4–64, Cl. 223—91.

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Heseltine, Donald W., and Brooker. 3,140,951.

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Brooks, Chester E., and K. W. Pfleger, to Bell Telephone Laboratories, Inc. Electronic automatic telephone switching system. 3,120,581, 2–4–64, Cl. 179—18.

Brooks, Chester E., G. B. Crofutt, Jr., J. L. Henry, and W. C. Sand, to Bell Telephone Laboratories, Inc. Distributed telephone line concentrator. 3,123,674, 3–3–64, Cl. 179—18.

Brooks, Chester E., and J. L. Henry, to Bell Telephone Laboratories, Inc. Remote distributed telephone line concentrator. 3,129,291, 4–14–64, Cl. 179—18.

Brooks, Chester E., and W. C. Sand, to Bell Telephone Laboratories, Inc. Distributed telephone line concentrator system. 3,129,292, 4–14–64, Cl. 179—18.

Brooks, Dewey H., Jr., and O. W. Jacobs, to The Sheffield Corp. Wheel manufacture. 3,128,539, 4–14–64, Cl. 29—159.

Brooks, Donald H., to Engelhard-Hanovia, Inc. Internal coating of flanged hollow bodies. 3,142,579, 7–28–64, Cl. 117—18.

Brooks, Durward L. Nursing bottle support. 3,144,230, 8–11–64, Cl. 248—102.

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Brooks, Winfred M., and Moberg. 3,117,812.

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Brooks, Ernest A., and L. S. DeMart, to Diamond Power Specialty Corp. Self-aligning connector for stud tensioners. 3,128,990, 4–14–64, Cl. 254—29.

Brooks, Forrest E., to Radio Corp. of America. Flyback transformers. 3,132,284, 5–5–64, Cl. 315—27.

Brooks, Fred A., Jr., to Jersey Production Research Co. Low density cementing composition. 3,131,075, 4–28–64, Cl 106—90.

Brooks, Harry E., Jr., to The Budd Co. Transducer arrangement. 3,132,319, 5–5–64, Cl. 338—6.

Brooks, Harry E., Jr., to The Budd Co. Extensometer. 3,158,939, 12–1–64, Cl. 33—148.

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Brooks, Jerry R. Moisture indicating device. 3,117,442, 1–14–64, Cl. 73—73.

Brooks, Jerry R. Electric grass trimmer and edger. 3,119,-220, 1–28–64, Cl. 56—26.5.

Brooks, John A., to Sandard Oil Co. Regenerative reforming process. 3,154,481, 10–27–64, Cl. 208—65.

Brooks, John D., to United States of America, Navy. Acoustic torpedo warhead and transducer apparatus. 3,145,679, 8–25–64, Cl. 114—23.
Brooks, John D., to United States of America, Navy. Hydrodynamic apparatus. 3,150,625, 9–29–64, Cl. 114—20.
Brooks, John S.: *See*—
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Brooks, Melvin E., C. R. Chew, and C. D. Thompson, to Phillips Petroleum Co. Cable testing system having stressing means for detecting open and short circuits. 3,131,347, 4–28–64, Cl. 324—51.
Brooks, Norman B., and B. S. Quintal, to High Voltage Engineering Corp. Ion source for positive ion accelerators. 3,121,816, 2–18–64, Cl. 313—63.
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Brown, Cicero C., to Brown Oil Tools, Inc. Methods of and apparatus for running multiple pipe strings and well packers in well bores. 3,154,145. 10–27–64, Cl. 166—48.
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Brown, Earl L., Jr., and R. A. English, to Carrier Corp. Absorption refrigeration systems. 3,140,591, 7–14–64, Cl. 62—495.
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Brown, Harvey A., and R. J. Koshar, to Minnesota Mining and Mfg. Co. Quaternized perfluoroalkane-sulfonamido N-halomethyl carboxylic amides and a process for treating textiles therewith. 3,147,066, 9–1–64, Cl. 8—116.2.
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Brown. Henry, and T. W. Tomaszewski, to The Udylite Corp. Electrodeposition of lustrous satin nickel. 3,152,972, 10–13–64, Cl. 204—41.
Brown, Herbert C. Process involving the reaction of Group I-b metal compounds with an organoboron compound in the presence of a strong base. 3,134,823, 5–26–64, Cl. 260—676.
Brown, Herbert C. Novel organoboron compounds. 3,161,686, 12–15–64, Cl. 260—606.5.
Brown, Herbert C., B. C. S. Rao, and P. A. Tierney, to Purdue Research Foundation. Method of producing organoboron products. 3,133,961, 5–19–64, Cl. 260—543.
Brown, Herbert C., R. F. McFarlin, and B. C. Subba Rao. Method of preparing partially reduced organic compounds. 3,147,272, 9–1–64, Cl. 260—297.
Brown, Herman L. Recovering pure metal from insulated scrap wire. 3,116,545, 1–7–64, Cl. 29—403.
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Brown, Hugh O. Life saving sled. 3,119,364, 1–28–64, Cl. 115—6.1.
Brown, Isaac T., and H. F. Adebahr, to P. Lorillard Co. Apparatus for applying filter tips to cigarettes. 3,148,683, 9–15–64, Cl. 131—94.
Brown, Jack H., to Swift & Co. Method and apparatus for coating flexible sheet material. 3,163,555, 12–29–64, Cl. 117—105.3.
Brown, James, and J. W. Hawkins, to Power Jets (Research & Development) Ltd. Rotor blade locking apparatus. 3,120,277, 2–4–64, Cl. 170—173.
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Brown, James R., and J. Sharpe, to Electric & Musical Industries Ltd. Radio-activity contamination monitor with discrimination means for alpha and beta radiation. 3,126,482, 3–24–64, Cl. 250—83.3.
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Brown, Jerome E., to Ethyl Corp. Engine operation and compositions thereof. 3,160,592, 12–8–64, Cl. 252—49.7.
Brown, Jerome E., E. G. De Witt, and H. Shapiro, to Ethyl Corp. Cyclopentadienyl manganese tricarbonyl-containing fuels, lubes and additive fluids. 3,127,351, 3–31–64, Cl. 252—49.7.
Brown, Jessie H., to Southern Coatings and Chemical Co. Bark removing machine. 3,119,422, 1–28–64, Cl. 144—208.
Brown, John A. Self anchoring bolt having line contact between the male and female wedge members. 3,117,483, 1–14–64, Cl. 85—2.4.
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Brown, John C. Anti-skid tire chain mounting arrangement. 3,151,655, 10–6–64, Cl. 152—233.
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Brown, John J., and S. Bernstein, to American Cyanamid Co. Dienic steroids and method of preparing the same. 3,118,919, 1–21–64, Cl. 260—397.45.

Brown, John J., and G. F. Ruppenicker, Jr., to United States of America, Agriculture. Method for producing bulked, highly stretchable textured cotton yarns. 3,127,732, 4–7–64, Cl. 57—164.

Brown, John J., and S. Bernstein, to American Cyanamid Co. Substituted 19-norandrosta-5(10),9(11)-dienes and method of preparing same. 3,143,557, 8–4–64, Cl. 260—397.5.

Brown, John J., R. H. Lenhard, and S. Bernstein, to American Cyanamid Co. Methods of preparing 3-alkylenedioxy Δ^4 steroids and products resulting therefrom. 3,158,602, 11–24–64, Cl. 260—239.55.

Brown, John K., to Burroughs Corp. Punched card reader and switch contact. 3,152,247, 10–6–64, Cl. 235—61.11.

Brown, John W., Jr., and J. W. Nevins, to Brown Fintube Co. Union for connecting conduits. 3,155,404, 11–3–64, Cl. 285—137.

Brown, Joseph, to United States of America, Navy. Underwater missile launching system. 3,137,203, 6–16–64, Cl. 89—1.7.

Brown, Joseph M., and A. D. Evans, to Texas Instruments Inc. Semiconductor integrated circuit utilizing field-effect transistors. 3,130,377, 4–21–64, Cl. 331—108.

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Brown, Joseph P., to Monsanto Chemicals Ltd. 4-haloalkyl-2,2-dialkyl-1,2-dihydroquinolines and process for the preparation thereof. 3,149,117, 9–15–64, Cl. 260—283.

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Brown, Karl L., W. K. H. Panofsky, and J. F. Streib; said Panofsky and said Streib assors. to said Brown. Method of focusing charged particles to provide zero momentum dispersion. 3,138,706, 6–23–64, Cl. 250—41.9.

Brown, Kenard D. Fitting. 3,120,401, 2–4–64, Cl. 285—149.

Brown, Kenneth A., to United States Steel Corp. Apparatus for coiling wire. 3,135,477, 6–2–64, Cl. 242—83.

Brown, Kenneth J., to The Foxboro Co. Actuators for positioning a control valve or other member in accordance with an electrical signal. 3,159,038, 12–1–64, Cl. 74—1.

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Brown, Lee R., and P. W. Geery, to Dresser Industries, Inc. Oscillographic recorder. 3,129,999, 4–21–64, Cl. 346—109.

Brown, Lewis J., to Pennsalt Chemicals Corp. Corrosion preventive process. 3,128,210, 4–7–64, Cl. 134—29.

Brown, Martin K., to Radio Corp. of America. Plural parallel electron-guns. 3,134,923, 5–26–64, Cl. 313—271.

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Brown, Neil. Collapsible frame with bent bottom ring. 3,133,550, 5–19–64, Cl. 135—5.

Brown, Noah G., Jr., to Burlington Industries, Inc. Puffed fabrics. 3,146,800, 9–1–64, Cl. 139—384.

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Brown, Northrop, W. P. Langsdorf, Jr., and C. E. Schweitzer, to E. I. du Pont de Nemours and Co. Polyoxymethylene diethers. 3,161,616, 12–15–64, Cl. 260—67.

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Brown, Paul L., and J. F. Hyde, to Dow Corning Corp. Preparation of linear siloxanes. 3,146,251, 8–25–64, Cl. 260—448.8.

Brown, Paul L., and J. F. Hyde, to Dow Corning Corp. Polyfunctional alkoxy endblocked polysiloxanes and their cured compositions. 3,161,614, 12–15–64, Cl. 260—46.5.

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Brown, Robert, Jr. Apparatus for stringing tobacco leaves and the like. 3,127,028, 3–31–64, Cl. 214—5.5.

Brown, Robert K., to Sawyers, Inc. Slide projector. 3,120,-150, 2–4–64, Cl. 88—28.

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Brown, Robert N., D. Balber, and G. V. Rylsky, to General Precision Inc. Device for measuring gas pressure by means of alpha particles. 3,141,970, 7–21–64, Cl. 250—43.5.

Brown, Robert R., to Elastic Stop Nut Corp. of America. Electrical connection and components. 3,148,011, 9–8–64, Cl. 339—218.

Brown, Robert R., to R. P. Gilbert. Plumbing pipe fabrication apparatus. 3,162,160, 12–22–64, Cl. 113—102.

Brown, Robert S., D. F. Turner, and N. E. Welter, to Railway Maintenance Corp. Surface smoothing machine. 3,150,-608, 9–29–64, Cl. 104—7.

Brown, Robert T. Apparatus for recovering lead from storage batteries. 3,152,504, 10–13–64, Cl. 83—419.

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Brown, Royce N., to Allis-Chalmers Mfg. Co. Flow indicating means for impositive displacement machines. 3,144,-766, 8–18–64, Cl. 73—168.

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Brown, William, and L. L. Kelsey, to Blazon, Inc. Toy. 3,119,201, 1–28–64, Cl. 46—245.
Brown, William A., and J. F. Drenning, to Kerchner, Marshall & Co. Metallurgical material and process for treating iron therewith. 3,158,465, 11–24–64, Cl. 75—57.
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Brown, Winton, and F. E. Smith, to Eastman Kodak Co. Process for separating tocopherols and sterols from deodorizer sludge and the like. 3,153,055, 10–13–64, Cl. 260—345.6.
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Browne, Clyde A., and E. E. Reese, to General Motors Corp. Unitary squeegee and wiper blade assembly embodying the same. 3,116,508, 1–7–64, Cl. 15—250.42.
Browne, Colin L., and W. J. Myles, to Celanese Corp. of America. Disperse dyeing of cellulose triacetate. 3,135,576, 6–2–64, Cl. 8—57.
Browne, Frank L., to O. Z. Electrical Mfg. Co., Inc. Rigid conduit expansion joint grounded to require no external bonding jumper. 3,154,632, 10–27–64, Cl. 174—86.
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Brownlow, James M., M. K. Haynes, and W. A. Hunt, to International Business Machines Corp. Multi-aperture magnetic core storage device. 3,142,036, 7–21–64, Cl. 340—174.
Brownlow, James M., and J. A. Morrow, to International Business Machines Corp. Ferrite ceramic compositions and method of preparation. 3,150,095, 9–22–64, Cl. 252—62.5.
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Bruce, John M., Jr., and I. M. Robinson, to E. I. du Pont de Nemours and Co. Olefin polymerization catalyst. 3,118,865, 1–21–64, Cl. 260—93.7.
Bruce, John M., Jr., and I. M. Robinson, to E. I. du Pont de Nemours and Co. Aluminum diene polymers. 3,149,136, 9–15–64, Cl. 260—448.
Bruce, Lester D., and G. Parmakian, to Riley Stoker Corp. Furnace observation window. 3,145,705, 8–25–64, Cl. 126—193.
Bruce, Robert H., W. T. Hill, and C. R. Scott, to Monsanto Co. Conveying systems. 3,138,408, 6–23–64, Cl. 302—11.

Bruce, William F., and A. D. Lourie, to American Home Products Corp. Substituted 2-aminoisonicotinic acid hydrazides. 3,131,194, 4–28–64, Cl. 260—295.
Bruce, William F., and J. Tokolics, to American Home Products Corp. Novel bisacetamides. 3,135,750, 6–2–64, Cl. 260—247.2.
Bruce, William F., and J. Tokolics, to American Home Products Corp. (Dialkylamino)imino bisacetamides. 3,135,791, 6–2–64, Cl. 260—558.
Bruce, William F., and J. Tokolics, to American Home Products Corp. Novel bisacetamides. 3,135,792, 6–2–64, Cl. 260—558.
Bruce, William F., and J. Tokolics, to American Home Products Corp. Hydroxyalkylenediiminotetraacetamides. 3,135,793, 6–2–64, Cl. 260—559.
Bruch, Charles A., to General Electric Co. Method of making magnesia-alumina spinel bodies. 3,155,534, 11–3–64, Cl. 117—5.5.
Brucken, Byron L.: *See*—
Jacobs, James W., Brucken, and Long. 3,132,501.
Brucken, Byron L., to General Motors Corp. Lint burner for a domestic dryer. 3,132,006, 5–5–64, Cl. 34—79.
Brucken, Byron L., and V. A. Williamitis, to General Motors Corp. Solvent reclaiming dry cleaning apparatus. 3,125,106, 3–17–64, Cl. 134—113.
Brucken, Byron L., and T. H. Fogt, to General Motors Corp. Centrifugally actuated control. 3,131,566, 5–5–64, Cl. 73—537.
Brucken, Byron L., and V. A. Williamitis, to General Motors Corp. Dry cleaning appliance. 3,133,286, 5–12–64, Cl. 68—18.
Brucken, Byron L., and J. L. Miller, to General Motors Corp. Domestic incinerator. 3,150,619, 9–29–64, Cl. 110—8.
Brucken, Byron L., and G. B. Long, to General Motors Corp. Centrifugal switch with integral impeller blades. 3,154,650, 10–27–64, Cl. 200—80.
Brucken, Byron L., and V. A. Williamitis, to General Motors Corp. Filter cartridge for a dry cleaning system. 3,156,648, 11–10–64, Cl. 210—209.
Brucker, Hans. Device for controlling thickness in rolling machines. 3,146,644, 9–1–64, Cl. 80—56.
Brucker-Steinkuhl, Kurt. Production control system. 3,117,261, 1–7–64, Cl. 318—6.
Brückner, Gernot, to Trockentechnik Kurt Bruckner K.G. Material treating machine. 3,148,409, 9–15–64, Cl. 18—1.
Bruckner, Hans, M. Czech, and K. Hartel, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Fungicidal agents. 3,159,531, 12–1–64, Cl. 167—22.
Bruckner, Karl G. Mounting and centering devices for milling cutters. 3,138,997, 6–30–64, Cl. 90—11.
Brückner, Klaus: *See*—
Von Werder, Fritz, Brückner, Bork, and Metz. 3,118,814.
Von Werder, Fritz, Brückner, Bork, and Metz. 3,161,661.
Bruckner, Klaus, K. Irmscher, U. Jahn, H. Metz, and J. Gillissen, to E. Merck Aktiengesellschaft, Firma. 16-methylene-testosterone derivatives. 3,117,060, 1–7–64, Cl. 167—74.
Bruckner, Klaus, and K.-H. Bork, to E. Merck Aktiengesellschaft. Alkylthiosteroids and methods of their preparation. 3,163,578, 12–29–64, Cl. 167—74.
Bruckschen, Johann: *See*—
Wegmann, Ludwig, Bruckschen, and Weber. 3,136,182.
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Hines, Thomas F. 3,155,212.
Bruder, Alfred: *See*—
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Brudnak, Andrew, Jr., and H. G. Akins, to International Harvester Co. Safety release and switch out mechanism for hydraulic system. 3,132,699, 5–12–64, Cl. 172—9.
Brudnak, Andrew, Jr., and F. J. Simak, to International Harvester Co. Flow control compensator. 3,142,342, 7–28–64, Cl. 172—9.
Brudner, Harvey J. Digital meter. 3,139,753, 7–7–64, Cl. 73—362.
Brudney, Harry, to Jacoby-Bender, Inc. Doll's eye having internal light-diffusing surface. 3,120,720, 2–11–64, Cl. 46—169.
Bruecker, George B. Silo unloaders. 3,146,899, 9–1–64, Cl. 214—17.
Bruecker, John. Shear plate and cutter assembly for rotary-type dry shaver. 3,119,180, 1–28–64, Cl. 30—43.
Bruecker, John. Method of and apparatus for forming perforated shear plates for dry shavers of the rotary type. 3,137,067, 6–16–64, Cl. 29—549.
Brueckmann, Helmut, to United States of America, Army. Portable ground plane mat with cavity backed antenna placed thereon. 3,121,230, 2–11–64, Cl. 343—770.
Brueckner, Alexander W., to Lynch Corp. Fluid transducer. 3,143,882, 8–11–64, Cl. 73—231.
Brueder, Antoine, to Andre Citroen Societe Anonyme. Double-action inertia switch. 3,141,935, 7–21–64, Cl. 200—61.46.
Brueder, Antoine, to Andre Citroen, Societe Anonyme. Control regulator of hydraulic device for maintaining a vehicle frame to a constant level. 3,153,425, 10–20–64, Cl. 137—596.2.
Brueder, Antoine, to Andre Citroen, Societe Anonyme. Hydraulic brake system including a fluid suspension brake pressure supply for vehicles. 3,155,433, 11–3–64, Cl. 303—2.
Bruen, Charles P., and K. W. Dieckmann, to Allied Chemical Corp. Coating electronic devices. 3,144,318, 8–11–64, Cl. 65—18.
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Schmidt, Raymond F., and Brueneman. 3,162,828.
Bruengger, Heinrich, and H. Boehl, to Ciba Ltd. Optical sensitization of photographic materials suitable for the silver-dye bleaching process. 3,157,507, 11–17–64, Cl. 96—99.
Bruenig, Matthias. Sliding bearing. 3,150,900, 9–29–64, Cl. 308—37.
Bruestle, Carl O., to Syncro Machine Co. Reeling device for large cables. 3,123,314, 3–3–64, Cl. 242—54.
Bruestle, Carl O., to Syncro Machine Co. Cooling means for wire drawing blocks. 3,130,832, 4–28–64, Cl. 205—14.
Bruestle, Carl O., to Synchro Machine Co. Storage type wire drawing machine. 3,133,629, 5–19–64, Cl. 205—14.
Bruestle, Carl O., to Syncro Machine Co. Cooling means for a wire drawing block. 3,143,204, 8–4–64, Cl. 205—20.
Bruet, Henri R., to Etablissements A. Cazeneuve. Operation of feed and thread boxes in machine-tools. 3,125,891, 3–24–64, Cl. 74—348.
Bruet, Henri R., to A. Cazeneuve, Etablissements. Machine tool provided with circular rotary abutments. 3,136,189, 6–9–64, Cl. 82—21.
Bruet, Henri R., ½ to Etablissements A. Cazeneuve. V-belt transmission with variable transmission ratio. 3,137,178, 6–16–64, Cl. 74—230.17.
Bruet, Henri R., to A. Gazeneuve Etablissements. Combined traversing and thread-cutting mechanism. 3,148,569, 9–15–64, Cl. 82—22.
Brugger, Hugo, and H. Burkhard, to Sandoz Ltd. Reactive dyestuffs. 3,213,595, 3–3–64, Cl. 260—151.
Brugger, Wilhelm, to Th. Goldschmidt. A.-G. Electric shaft furnace. 3,147,331, 9–1–64, Cl. 13—23.
Brugler, Richard K.: *See*—
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Brugliera, Frank J., and L. E. Pepperberg, to Motorola, Inc. Radio alarm. 3,149,317, 9–15–64, Cl. 340—224.
Bruiet, Désiré: *See*—
Bachelet, Gilbert H., and Bruiet. 3,118,711.
Bachelet, Gilbert H., and Bruiet. 3,128,810.
Brukner, Francis E., to Clark Equipment Co. Master cylinder. 3,151,459, 10–6–64, Cl. 60—54.6.
Brulard, Andre: *See*—
Ziegler, Herbert, and Brulard. 3,153,642.
Brulhart, Paul I. Spinning type fishing reel. 3,119,573, 1–28–64, Cl. 242—84.21.
Brumbach, Joseph F., to Victor Comptometer Corp. Paper feed means. 3,125,638, 3–17–64, Cl. 178—18.
Brumbach, Joseph F., to Victor Comptometer Corp. Recording devices. 3,125,639, 3–17–64, Cl. 178—19.
Brumbach, Robert E., to Samuel Moore & Co. Composite tubing product, and apparatus and method for manufacturing same. 3,159,183, 12–1–64, Cl. 138—125.
Brumfield, Elvin S., and M. F. Braun, to Lockheed Aircraft Corp. Refractive optics infrared scanning system. 3,163,760, 12–29–64, Cl. 250—83.3.
Brumfield, John C., to I-T-E Circuit Breaker Co. Magnetic trip means. 3,125,651, 3–17–64, Cl. 200—88.
Brumitt, Ernest W.: *See*—
Laifman, Steven S., Sacks, Hitchens, and Brumitt. 3,148,505.
Brumley, Corwin H., to Bausch & Lomb Inc. Optical catheter. 3,123,066, 3–3–64, Cl. 128—2.
Brümmer, Friedrich, to R. Brummer. Apparatus for the production of objects from sheet material. 3,162,077, 12–22–24, Cl. 83—99.
Brümmer, Rudolf: *See*—
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Brummer, Olin, and J. Talamonti, to Borg-Warner Corp. Wedge shaped oil seal means for shafts. 3,123,367, 3–3–64, Cl. 277—171.
Brunberg, Karl G.: *See*—
Alexandersson, Harald V., Brunberg, and Dahlblom. 3,140,354.
Bruncken, Hans: *See*—
Nederbragt, Jacob A., and Bruncken. 3,134,061.
Brundage, Clinton F., to Minnesota Mining and Mfg. Co. Apparatus and method for mounting adhesive material on a card. 3,163,569, 12–29–64, Cl. 156—108.
Brundage, Clinton F., to Minnesota Mining and Mfg. Co. Appartaus and method for mounting adhesive material on a card. 3,163,570, 12–29–64, Cl. 156—108.
Brundage, James W.: *See*—
Mallory, Edwin E., Brundage, and Murphy. 3,153,263.
Brundage, Richard M., to Menasha Corp. Reinforced carton. 3,135,452, 6–2–64, Cl. 229—14.
Brundage, Robert W. Hydraulic pump or motor. 3,127,843, 4–7–64, Cl. 103—126.
Brundage, Robert W. Multiple discharge hydraulic pump. 3,128,707, 4–14–64, Cl. 103—2.
Brundige, Maurice M., to West Virginia Pulp and Paper Co. Adjustably mounted, reciprocating doctor device including blade and air blast means. 3,149,005, 9–15–64, Cl. 118—70.
Brüne, Herbert, ⅓ to Plaswin Corp. Stoppers for bottles and the like. 3,125,238, 3–17–64, Cl. 215—45.
Brunel, Henri. Process of refining hydrocarbon mineral oils. 3,149,063, 9–15–64, Cl. 208—13.
Brunell, David R. Drafting machine. 3,159,919, 12–8–64, Cl. 33—79.
Brunelle, Beatrice Y. Covering supporting head frame. 3,156,925, 11–17–64, Cl. 2—180.

Brunelle, Thomas E.: *See*—
Crecelius, Samuel B., Brunelle, and Rue. 3,141,897.
Bruner Corp.: *See*—
Rudelick, John. 3,134,403.
Brunet, Louis, to Society Zuccolo, Rochet & Cie "Z.R.C." Indicating means for so-called diving-watches. 3,124,928, 3–17–64, Cl. 58—57.
Brunette, Fredrick F., to Brilliant Products Inc. Display racks. 3,121,496, 2–18–64, Cl. 211—126.
Brunette, Fredrick F., to Brilliant Products Inc. Display assemblies. 3,122,238, 2–25–64, Cl. 211—126.
Bruni, Silverio: *See*—
Mantovanello, Giovanni, and Bruni. 3,127,338.
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Bruning, Fred. 3,127,670.
Bruning, Fred, to Bruning Bros. Co., Inc. Method of and machine for assembling sliders on slide fastener stringers. 3,127,670, 4–7–64, Cl. 29—408.
Bruninga, Willis J., to Keystone Steel & Wire Co. Self furring plaster mesh. 3,145,001, 8–18–64, Cl. 245—7.
Brunk, Harold J. Blueprint paper and coating composition including polyvinyl alcohol for making same. 3,140,950, 7–14–63, Cl. 96—92.
Brunkan, Gus H. Boom means. 3,143,216, 8–4–64, Cl. 212—61.
Brunkhardt, Frederick W., and N. E. Whitney, to United Aircraft Corp. Injector nozzle for rocket propellants. 3,134,227, 5–26–64, Cl. 60—39.46.
Brunn, John, to Varian Associates. Tuning of cavity resonators for reflex klystrons by means of magnetically controlled ferrite materials. 3,118,082, 1–14–64, Cl. 315—5.21.
Brunn, Ralph A.: *See*—
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Meusel, Jerome A., and Brunn. 3,148,071.
Brunnée, Curt, to Atlas-Werke Aktiengesellschaft. Sample insertion vacuum lock for a mass spectrometer. 3,117,223, 1–7–64, Cl. 250—41.9.
Brunner, Alfred, to Sulzer Freres, Societe Anonyme. Control system for heat exchanger. 3,126,053, 3–24–64, Cl. 165—40.
Brunner, Alfred, to Sulzer Freres S.A. Forced flow steam generating plants including a reheater. 3,129,564, 4–21–64, Cl. 60—67.
Brunner, Alfred, to Sulzer Freres, S.A. Multiple fuel firing method and apparatus. 3,135,314, 6–2–64, Cl. 158—11.
Brunner, Alfred, to Sulzer Freres, S.A. Regulating system for dividing a stream of fluid into at least two subsidiary streams. 3,138,143, 6–23–64, Cl. 122—406.
Brunner, Alfred, to Sulzer Freres, S.A. Steam generating plant. 3,144,856, 8–18–64, Cl. 122—406.
Brunner, Alfred, to Sulzer Freres, S.A. Regulating system for dividing a stream of fluid into at least two subsidiary streams. 3,154,057, 10–27–64, Cl. 122—406.
Brunner, Alfred, to Sulzer Freres, S.A. Fluid cooled nuclear reactor plant. 3,162,581, 12–22–64, Cl. 176—59.
Brunner, David H., to Philco Corp. System for selectively modifying amplitude of TV chrominance subcarrier to overcome color desaturation by synthesizing like-frequency compensating signal with subcarrier. 3,143,598, 8–4–64, Cl. 178—5.4.
Brunner, Emil, to Lonza, Electric and Chemical Works Ltd. Method of forming shaped cellular bodies. 3,160,689, 12–8–64, Cl. 264—54.
Brunner, Henry, and M. J. Waghorn, to Imperial Chemical Industries Ltd. Polyepoxide compositions. 3,134,754, 5–26–64, Cl. 260—47.
Brunner, Julius, F. Kuhrt, and E. Rainer, to Siemens-Schuckertwerke Aktiengesellschaft. Magnetic-field responsive electric switching device. 3,158,756, 11–24–64, Cl. 307—88.5.
Brunner, Mathias J., to General Electric Co. Passive transpiration cooling system. 3,159,012, 12–1–64, Cl. 62—467.
Brunner, Siegfried: *See*—
Leimer, Albert, and Brunner. 3,156,964.
Brunner, Walter H.: *See*—
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Rubin, Arthur I., Landauer, and Brunner. 3,130,325.
Bruno, Anthony T.: *See*—
Speno, Martin J., and Bruno. 3,146,539.
Bruno, Salvatore J., to R. B. Wyatt Mfg. Co., Inc. Shower enclosure. 3,117,657, 1–14–64, Cl. 189—46.
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Brunson, Marion O., and J. E. Huffaker, to Eastman Kodak Co. Hot melt composition for three-dimensional printing. 3,148,059, 9–8–64, Cl. 96—27.
Brunson, Raymond D., to Howell Instruments, Inc. Differential signal detecting apparatus. 3,138,957, 6–30–64, Cl. 73—341.
Brunson, Virgil A., to Blackmer Pump Co. Automatic pressure relief valve. 3,160,332, 12–8–64, Cl. 222—318.
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Albrecht, Alexander J. 3,122,366.
Anderson, Robert I. 3,119,615.
Conklin, Robert M., and Torresen. 3,118,671.
Harms, William J. 3,142,871.
Hicke, Carroll S. 3,140,894.
Mohr, Robert G., and Bice. 3,133,642.
Pratt, Goodrich B. 3,132,862.
Reinke, La Verne H. 3,161,161.
Rogers, Albert P. 3,153,538.
Ryan, George R. 3,135,993.
Brunswick Corp.: *See*—Continued
Satchell, Fred E., and Jolitz. 3,138,380.
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Seidner, Burton V. 3,149,838.
Sindlinger, Carl E. 3,129,476.
Sussin, Victor. 3,126,051.
Bruntil, Irwin M., and J. M. Shapiro, to Manson Laboratories, Inc. Pulse generator. 3,119,022, 1–21–64, Cl. 307—88.
Brunton, Don L., to H. Ray and G. K. Howard. Fish lure. 3,120,073, 2–4–64, Cl. 43—17.1.
Brunzell, Sven-Otto: *See*—
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Brush Beryllium Co., The: *See*—
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Beaver, Wallace W., Paine, and Stonehouse. 3,150,970.
Beaver, Wallace W., Paine, and Stonehouse. 3,150,975.
Smith, Ellsworth M. 3,138,493.
Smith, Ellsworth M. 3,150,969.
Stonehouse, Albert J., and Paine. 3,150,968.
Brush, Birchard M., to Cryo-Sonics, Inc. Vessel mounting system. 3,154,212, 10–27–64, Cl. 220—15.
Brush Electrical Engineering Co. Ltd.: *See*—
Davis, Rex M. 3,148,320.
Brush, John B. Foldable catamaran. 3,133,293, 5–19–64, Cl. 9—1.
Brussee, Richard C.: *See*—
Wiltshire, Arthur J., and Brussee. 3,133,684.
Brussell, Jacob. Heating oven for foods. 3,131,280, 4–28–64, Cl. 219—35.
Brütsch, Wilhelm, G. Busch, and H. Roskothen, to Kronprinz Aktiengesellschaft. Apparatus for lubrication of hot extruding of metal ingots. 3,118,540, 1–21–64, Cl. 207—1.
Brutt, Frederick J., and A. J. Mazanek, to Westinghouse Electric Corp. Wound magnetic core structure for inductive apparatus. 3,153,214, 10–13–64, Cl. 336—213.
Brutten, Eugene J., B. B. Gray, D. E. Rose, and R. J. Falk, to Southern Illinois University Foundation. Fingerprinting apparatus. 3,163,557, 12–29–64, Cl. 118—11.
Brutvan, William J., and C. F. Foster. Grinding wheel. 3,144,739, 8–18–64, Cl. 51—206.5.
Bruyere, Marcel, to Societe d'Exploitation des Materiels Hispano-Suiza. Aircraft including a plurality of power plants and a plurality of rotary propellers. 3,121,546, 2–18–64, Cl. 244—55.
Bruzzone, Mario: *See*—
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Bryan, Joan D.: *See*—
Agius, Peter J. V. J., Bryan, and Garbett. 3,137,679.
Bryan, John F., Jr.: *See*—
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Bryan, John F., Jr., to Kershaw Mfg. Co., Inc. Vertically-reciprocating saw apparatus for cutting crossties. 3,161,-213, 12–15–64, Cl. 143—68.
Bryan, John L., Jr.: *See*—
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Bryan, Loren A., and W. A. Tidridge, to FMC Corp. Corrosion resistant paints. 3,137,583. 6–16–64, Cl. 106—14.
Bryan, Loren A., and W. A. Tidridge, to FMC Corp. Polyvinyl acetate paints of increased adhesion containing barium compounds. 3,154,510, 10–27–64, Cl. 260—29.6.
Bryan, Paul A., to United States of America, Air Force. Network component failure location apparatus. 3,119,104, 1–21–64, Cl. 340—248.
Bryan, Paul J., to E. I. du Pont de Nemours and Co. Water impervious detonator. 3,128,703, 4–14–64, Cl. 102—28.
Bryan, Wilbur L.: *See*—
Heuser, Leon J., and Bryan. 3,154,537.
Bryan, William L., to E. I. du Pont de Nemours and Co. Flame treatment of polymeric film and apparatus. 3,145,-242, 8–18–64, Cl. 264—80.
Bryan, William L., and D. E. Swarts, to E. I. du Pont de Nemours and Co. Flame treatment of polyvinyl fluoride film. 3,153,683, 10–20–64, Cl. 264—80.
Bryan, William L., and D. E. Swarts, to E. I. du Pont de Nemours and Co. Flame treatment of polyvinyl fluoride film. 3,153,684, 10–20–64, Cl. 264—80.
Bryand, Edward T., to Metal-Tech, Inc. Suction roll assembly. 3,139,375, 6–30–64, Cl. 162—371.
Bryant Chucking Grinder Co.: *See*—
Edgar, Hugh T. 3,153,953.
Bryant, Clifford, R. F. Hackney, and O. C. Payne, to Cabin Crafts, Inc. Tufting machine with needle selector. 3,160,-125, 12–8–64, Cl. 112—79.
Bryant, Clifford A., to Cabin Crafts, Inc. Machine for producing cut and uncut pile. 3,155,059, 11–3–64, Cl. 112—79.
Bryant, Donald L.: *See*—
Griffith, Faye L., and Bryant. 3,140,795.
Bryant, Edward T., to Reynolds Metals Co. Package construction and parts therefor or the like. 3,148,769, 9–15–64, Cl. 206—47.
Bryant, Ellis H., Jr.: *See*—
McCarty, John O., and Bryant. 3,161,729.
Bryant, Goble W., to Interstate Bag Co., Inc. Handled shopping bags. 3,152,750, 10–13–64, Cl. 229—54.
Bryant, Harold A., and J. H. Marcotte, to Brown & Sharpe Mfg. Co. Automatic bleeder valve. 3,137,213, 6–16–64, Cl. 91—420.

Bryant, Harvey L., to Jersey Production Research Co. Borehole flowmeter. 3,163,038, 12–29–64, Cl. 73—155.
Bryant, Henry E. Safety control for a chucking machine. 3,131,456, 5–5–64, Cl. 29—38.
Bryant, Herbert W., to Bell Telephone Laboratories, Inc. Dashpot. 3,161,261, 12–15–64, Cl. 188—96.
Bryant, James M.: *See*—
Graber, Carl D., and Bryant. 3,139,046.
Bryant, John G., to The Cambridge Wire Cloth Co. Self releasing sling. 3,129,031, 4–14–64, Cl. 294—75.
Bryant, Marvin H., to General Motors Corp. Resiliently mounted radiator assembly. 3,121,467, 2–18–64, Cl. 180—68.
Bryant, Marvin H., to General Motors Corp. Radiator with resilient mounting. 3,123,170, 3–3–64, Cl. 180—68.
Bryant, Ozro N., to Westinghouse Electric Corp. Speed sensing apparatus. 3,136,326, 6–9–64, Cl. 137—36.
Bryant, Thomas D.: *See*—
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Bryant, William J. Cover holddown device. 3,141,210, 7–21–64, Cl. 24—73.
Bryce-Smith, Derek, and E. T. Blues, to National Research Development Corp. Preparation of a halogen containing organo-magnesium material. 3,143,577, 8–4–64, Cl. 260—665.
Brydolf, Robert, and C. A. Tucker, to Acme Appliance Mfg. Co. Surface mounted folding door hardware. 3,162,890, 12–29–64, Cl. 16—129.
Brydon, Edward W. Convertible top interlock. 3,122,394, 2–25–64, Cl. 296—120.
Brydon, John P. Straining apparatus. 3,157,131, 11–17–64, Cl. 103—220.
Brye, Edvin. Perforating device. 3,120,778, 2–11–64, Cl. 83—633.
Bryer, Jack, to R. Hoe & Co., Inc. Rotary folding mechanism drive means. 3,144,249, 8–11–64, Cl. 270—77.
Brymer, Andrew E., Jr., to Owens-Illinois Glass Co. Adapter for sizing and cooling ware. 3,133,806, 5–19–64, Cl. 65—268.
Brymer, Andrew E., Jr., to Owens-Illinois Glass Co. Apparatus for forming glass articles. 3,149,950, 9–22–64, Cl. 65—224.
Bryner, Ernest J.: *See*—
Ianuzzi, Joseph N., and Bryner. 3,162,935.
Bryner, Ernest J., and J. N. Ianuzzi, to Sigma Engineering Service, Inc. Lead straightening machine. 3,146,805, 9–1–64, Cl. 140—147.
Bryner, Fred, and A. J. Dietzler, to The Dow Chemical Co. Chlorination of bisphenols. 3,143,575, 8–4–64, Cl. 260—619.
Brys, Harry E., to Armco Steel Corp. Method and apparatus utilizing a magnetic armature and sensing coil for determining flatness. 3,161,824, 12–15–64, Cl. 324—34.
Bryson, Henry K., A. B. Castle, and M. A. Juten. Door holders and door stops. 3,163,452, 12–29–64, Cl. 292—75.
Bryson, James L., to Bryson Mfg. Co., Inc. Bobbin control for sewing machines. 3,124,088, 3–10–64, Cl. 112—219.
Bryson Mfg. Co., Inc.: *See*—
Bryson, James L. 3,124,088.
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Bubniak, William C., and J. S. Collman, to General Motors Corp. Rotary regenerator seals. 3,116,785, 1–7–64, Cl. 165—9.
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Buc, Saul R., deceased (by D. M. Buc, administratrix), R. Mayhew, and E. P. Williams, to General Aniline & Film Corp. Surface active ethers of N-(hydroxymethyl)-lactams. 3,136,766, 6–9–64, Cl. 260—247.7.
Buc, Saul R., deceased, (D. M. Buc, administratrix), and E. P. Williams, to General Aniline & Film Corp. Substituted imidazolines. 3,138,610, 6–23–64, Cl. 260—309.6.
Buccicone, Dario, to Bucciconi Engineering Co., Inc. Flexible magnetic conveyor. 3,144,927, 8–18–64, Cl. 198—41.
Buccicone, Dario, to Buccicone Engineering Co., Inc. Magnetic rail conveyor. 3,150,764, 9–29–64, Cl. 198—41.
Buccicone, Dario, to Bucciconi Engineering Co., Inc. Sheet piler with air flow side guides. 3,159,398, 12–1–64, Cl. 271—68.
Buccicone, Dario, to Bucciconi Engineering Co., Inc. Metal sheet handling apparatus. 3,161,278, 12–15–64, Cl. 198—41.
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Buchan, James I., and T. Simpson. Combined storage locker and table. 3,126,236, 3–24–64, Cl. 312—201.
Buchan, William R., A. B. C. Rankin, and S. W. C. Brown. Ultrasonic inspection apparatus. 3,132,510, 5–12–64, Cl. 73—67.7.
Buchanan, David L.: *See*—
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Büchel, Karl H., H. Röchling, and F. W. A. G. K. Korte, to Shell Oil Co. Phosphoric acid esters. 3,130,203, 4–21–64, Cl. 260—343.2.
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Buchholz, Albert E., deceased (by R. K. Gerling, special administrator) and K. E. Clausen, to Outboard Marine Corp. Retractable wheel installation and actuating mechanism therefor. 3,143,749, 8–11–64, Cl. 9—1.
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Buchli, Arnold. Scraper with parallelogram linkage connecting bucket to frame. 3,154,868, 11–3–64, Cl. 37—129.
Buchman, William W., to Hughes Aircraft Co. Exploding squirted wire pulsed light source. 3,163,799, 12–29–64, Cl. 314—22.
Buchner, Bernhard, and E. Alt, to Auto Union G.m.b.H. Arrangement for heating the lubricating oil of internal combustion engines. 3,150,651, 9–29–64, Cl. 123—122.
Büchner, Bernhard, and A. Horak, to Auto Union G.m.b.H. Storage tank for viscous fluids. 3,151,768, 10–6–64, Cl. 220—86.
Büchner, Karl, J. Meis, and O. Roelen, to Ruhrchemie Aktiengesellschaft. Process for the production of alcohols. 3,125,605, 3–17–64, Cl. 260—635.
Buchner, Marvin K., to FMC Corp. Machine for pitting fruit. 3,119,425, 1–28–64, Cl. 146—28.
Buchner, Norbert, to Firma Fr., Hesser, Maschinenfabrik-Aktiengesellschaft. Heat sealing apparatus. 3,162,564, 12–22–64, Cl. 156—498.
Buchsbaum, Frank, W. G. Leathers, and T. S. Harris, to The Teleregister Corp. Printer for data processing apparatus. 3,146,702, 9–1–64, Cl. 101—93.
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Buchschacher, Paul, and R. F. Hirschmann, to Merck & Co., Inc. 5*a*-pregneno-[3,2-*c*] pyrazoles and process of preparing them. 3,158,601, 11–24–64, Cl. 260—239.5.
Buchwald, Fritz, and H. Kudritzki, to International Standard Electric Corp. Pneumatic tube system for high carrier speeds. 3,148,845, 9–15–64. Cl. 243—2.
Buchwald, Robert M., to General Motors Corp. Vehicle engine exhaust system. 3,116,803, 1–7–64, Cl. 180—64.

Buchwald, Robert M., to General Motors Corp. Concealed windshield wiper mechanism. 3,120,673, 2–11–64, Cl. 15—250.17.

Buchwalder, Julien J., to United Eastern Corp. Cartridge loader for revolvers and carrying case therefor. 3,131,500, 5–5–64, Cl. 42—89.

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Buck, Alfred, to Inventa, A.G. fur Forschung und Patentverwertung. Process for the production of cyclohexanol and cyclohexanone. 3,119,873, 1–28–64, Cl. 260—586.

Buck, Arthur W. Apparatus for developing radiographic films. 3,133,490, 5–19–64, Cl. 95—96.

Buck, Arthur W. Speed film dryer and method of drying radiograph film negatives. 3,138,437, 6–23–64, Cl. 34—163.

Buck, Carl J., and J. M. McManus, to Chas. Pfizer & Co., Inc. Alkylation of derivatives of 3,4-dihydro-1,2,4-benzothiadiazine-1,1-dioxide. 3,133,060, 5–12–64, Cl. 260—243.

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Buck, Daniel C., and C. H. Scullin, to Westinghouse Electric Corp. Magnetic structure for traveling wave tubes. 3,133,226, 5–12–64, Cl. 315—3.5.

Buck, Edwin H., to Electro-Mechanical Research, Inc. Frequency converter systems. 3,122,715, 2–25–64, Cl. 332—43.

Buck, Hans. Preparatory fuse. 3,149,567, 9–22–64, Cl. 102—65.

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Buckingham, Mary R., to Sarong, Inc. Foundation garment. 3,127,897, 4–7–64, Cl. 128—528.

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Buckler, Sheldon A., and M. Epstein, to American Cyanamid Co. Organic phosphine derivatives and method of preparing same. 3,145,234, 8–18–64, Cl. 260—606.5.

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Buckley, Donald, and J. Glassman, to Imperial Chemical Industries Ltd. Aceto-acetarylide azo quinoline coloring compounds. 3,137,685, 6–16–64, Cl. 260—155.

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Budwig, Gilbert G. Mounting device. 3,144,695, 8–18–64, Cl. 24—213.
Budzich, Mieczyslaw, and L. J. Rozankowski, to Western Electric Co., Inc. Apparatus for injection molding of plugs. 3,125,781, 3–24–64, Cl. 18—5.
Budzich, Tadeusz, to The Weatherhead Co. Pump. Re. 804, 4–7–64, Cl. 83—96.
Budzich, Tadeusz, to The Weatherhead Co. Pump damping means. 3,117,524, 1–14–64, Cl. 103—37.
Budzich, Tadeusz, to The Weatherhead Co. Throttling control. 3,130,674, 4–28–64, Cl. 103—37.
Budzich, Tadeusz. Control in harvesting machinery. 3,138,908, 6–30–64, Cl. 56—20.
Budzich, Tadeusz. Constant speed hydraulic drive. 3,139,006, 6–30–64, Cl. 91—199.
Budzich, Tadeusz. Hydraulic apparatus. 3,139,037, 3,139,037, 6–30–64, Cl. 103—162.
Budzich, Tadeusz, to The Weatherhead Co. Axial piston pump drive. 3,143,973, 8–11–64, Cl. 103—162.
Budzich, Tadeusz. Hydrostatic transmission. 3,157,996, 11–24–64, Cl. 60—53.
Budzich, Tadeusz, to The Weatherhead Co. Variable volume pump. 3,160,102, 12–8–64, Cl. 103—37.
Budzich, Tadeusz, to The Weatherhead Co. Pump. 3,160,110, 12–8–64, Cl. 103—173.
Budzich, Tadeusz, and E. V. Manning, to The New York Air Brake Co. Hydraulic starting and pumping method and apparatus. 3,153,899, 10–27–64, Cl. 60—18.
Budzien, Hugo F., to Beloit Iron Works. Pump. 3,131,877, 5–5–64, Cl. 241—251.
Budzyn, Boleslaw L.: *See*—
Arnould, Marcel M., and Budzyn. 3,133,314.
Budzyna, Joseph M., and A. A. Laferte, to Draper Corp. Feeler mechanism for looms. 3,125,131, 3–17–64, Cl. 139—273.
Budzynski, Thedore J., and J. R. Johnston, to Ford Motor Co. Vehicle suspension construction. 3,157,395, 11–17–64, Cl. 267—19.
Buechel, Baptist, R. Haefer, and G. Zinsmeister, to Bendix-Balzers Vacuum, Inc. Gas ballast pumps. 3,116,872, 1–7–64, Cl. 230—158.
Buechel, Mel E., to Motorola, Inc. Television receiver. 3,122,674, 2–25–64, Cl. 315—22.
Buechner, Gerhard, to Oerlikon Engineering Co. Arc-extinguishing means for power switches having stationary and movable contact pieces. 3,158,723, 11–24–64, Cl. 200—148.
Buechner, Werner W. Photographic apparatus. 3,124,051, 3–10–64, Cl. 95—96.
Buegeleisen, Joseph, Co.: *See*—
Zbikowski, Ted. 3,116,488.
Zbikowski, Ted. 3,116,490.
Zbikowski, Ted. 3,137,859.
Buegler, Robert J.: *See*—
Avakian, Emik A., and Buegler. 3,133,268.
Buehl, Arnold L., to Mor-Flo Industries, Inc. Water heaters. 3,124,110, 3–10–64, Cl. 122—494.
Buehl, Arnold L., and E. Wenczl, to Mor-Flo Industries, Inc. Water heater tank support. 3,163,159, 12–29–64, Cl. 126—363.
Buehl, Russell C., to Crucible Steel Co. of America. Electrode regulator. 3,143,587, 8–4–64, Cl. 13—13.
Buehler, Albert: *See*—
Hann, Gordon E., and Buehler. 3,142,578.
Buehler, Arthur: *See*—
Zickendraht, Christian, and Buehler. 3,138,611.
Buehler, Arthur, R. Casty, and G. Back, to Ciba Ltd. Process for dyeing wool with 1:2-metal complex dyes containing a single sulfonic acid group. 3,131,989, 5–5–64, Cl. 8—43.

Buehler Corp., The : *See*—
Cochran, Richard L. 3,134,357.
Engel, William N. 3,147,733.
Englehart, Theodore M., Cochran, and Engel. 3,138,922.
Howard, Donald L. 3,120,102.
Newby, Thomas O. 3,146,586.
Reynolds, James W., and Cochran. 3,146,588.

Buehler, Ernest, and J. E. Kunzler, to Bell Telephone Laboratories, Inc. Fabrication of NB_3Sn superconducting element. 3,124,455, 3–10–64, Cl. 75—214.

Buehler, Fritz A., to Socony Mobil Oil Co., Inc. Oxazole grease. 3,137,653, 6–16–64, Cl. 252—47.5.

Buehler, Gebrueder : *See*—
Bacoka, Josip. 3,128,017.
Eppenberger, Paul. 3,129,168.
Hügli, Ernst. 3,126,089.
Kaufmann, Ernst. 3,162,536.
Marchetti, Augusto. 3,131,801.
Neidhardt, Karl. 3,138,296.
Siebert, Alfred. 3,124,315.

Buehler Ltd. : *See*—
Graves, George W. 3,137,977.

Buehler, Marvin L., and E. R. Pierre, to United States of America, Navy. Welding apparatus. 3,138,693, 6–23–64, Cl. 219—95.

Buehler, Willy, A. G. : *See*—
Saiko, Alphens, and Spieldiener. 3,147,713.
Spieldiener, Robert, Lukas, and Buehler. 3,160,360.

Bueler, Richard C., to Wagner Electric Corp. Ratio selector valve. 3,138,410, 6–23–64, Cl. 303—52.

Bueler, Richard C., to Wagner Electric Corp. Control valve. 3,138,411, 6–23–64, Cl. 303—52.

Bueler, Richard C., to Wagner Electric Corp. Control valve. 3,152,844, 10–13–64, Cly. 303—52.

Buell, Bennett G., to American Cyanamid Co. 2-styrylbenzoxazole brighteners. 3,120,520, 2–4–64, Cl. 260—240.

Buell Mfg. Co. : *See*—
Buell, Roy D., Jr. 3,156,212.

Buell, Roy D., Jr., to Buell Mfg. Co. Fluid operated sonic transducer. 3,156,212, 11–10–64, Cl. 116—137.

Buellm, Bennett G., to American Cyanamid Co. 2-styrylbenzoxazole brighteners. 3,158,610, 11–24–64, Cl. 260—240.

cooling plant. 3,161,485, 12–15–64, Cl. 34—236.

Buescher, Francis J. : *See*—
Goepfert, George J., Frye, Soukup, and Buescher. 3,140,-321.

Buesgen, William G. Permanent wave rod. 3,123,079, 3–3–64, Cl. 132—40.

Buesseler, Frank R., and W. L. Carlson, Jr., to Minneapolis-Honeywell Regulator Co. Method of making a capillary tube fluid filled transmission system. 3,119,176, 1–28–64, Cl. 29—400.

Buetow, Ralph W., to United States of America, Army. Thermographic method for marking photographs. 3,137,-605, 6–16–64, Cl. 156—240.

Buetow, Ralph W., and R. P. Cox, 80% to said Cox, and 20% to J. Bjorksten. High-temperature, high-solvent resistant elastomer. 3,160,551, 12–8–64, Cl. 161—208.

Bufalino, Louis C. Stamping and loading apparatus. 3,127,-25,553, 4–14–64, Cl. 103—37.

Buffalo Forge Co. : *See*—
Moelbert, Heinrich. 3,152,499.

Buffery, Victor C. : *See*—
Rankin, Alexander B. C., Buffery, Taylor, and French. 3,121,325.

Buffington, Henry C. : *See*—
Uhlig, Edwin C., Buffington, King, and Brooks. 3,144,-952.

Buffinton, F. H., Co., Inc. : *See*—
Cavanaugh, Daniel J. 3,145,871.

Bugaut, Raymond : *See*—
Kalopissis, Gregoire, and Bugaut. 3,117,911.

Bugbird, Herbert C. Gutter and downspout strainer. 3,121,-684, 2–18–64, Cl. 210—237.

Bugelholl, Sidney R. Film processing computer. 3,117,722, 1–14–64, Cl. 235—64.7.

Bugg, Irving F. Ski binding. 3,160,421, 12–8–64, Cl. 280—11.35.

Bugg, Kenly C., to Kendick Mfg. Co. Inc. Planetary frictional drive mechanism. 3,160,031, 12–8–64, Cl. 74—798.

Bugosh, John, to E. I. du Pont de Nemours and Co. Fibrous boehmite alumina molding powder and processes for molding them into dense, alpha alumina articles. 3,141,786, 7–21–64, Cl. 106—62.

Buhl, William. Automobile back seat head rest. 3,152,831, 10–13–64, Cl. 296—63.

Buhlinger, Hermann. Sorting devices for leather or similar materials. 3,160,294, 12–8–64, Cl. 214—16.

Buhr, August G., to Allis-Chalmers Mfg. Co. Planter mechanism. 3,142,275, 7–28–64, Cl. 111—51.

Buhr Machine Tool Co. : *See*—
Zajac, Michael. 3,125,773.

Buhr, Robert K. : *See*—
Contractor, Gustad P., and Buhr. 3,119,159.

Bührer, Erwin, and M. Wernli, said Wernli assor. to said Bührer. Apparatus for discharging granular material such as sand in foundries or the like. 3,137,412, 6–16–64, Cl. 222—70.

Buhrke, Fred W. Die assembly. 3,163,142, 12–29–64, Cl. 113—45.

Buhrmann, Wayne H., to The Goodyear Tire & Rubber Co. Belt drive. 3,127,780, 4–7–64, Cl. 74—229.

Buhro, Charles L., to Walker Mfg. Co. Release valve lever. 3,116,907, 1–7–64, Cl. 251—289.

Buie, John C. Roto-change orifice fitting. 3,118,472, 1–21–64, Cl. 138—40.

Builders Paving Co., Inc. : *See*—
Floyd, Norris C. 3,131,848.

Building Products Ltd. : *See*—
Newton, Leslie J., and de Jong. 3,158,960.

Buisson, André, to Societe Lorraine des Anciens Etablissements de Dietrich et Cie de Luneville, Societe anonyme dite. Machines in particular to military roads vehicles to obtain degree of buoyancy of these machines. 3,120,832, 2–11–64, Cl. 115—1.

Buisson, Pierre. Automatic devices for bringing a measuring gauge into the position of measurement and withdrawing said gauge from that position. 3,153,286, 10–20–64, Cl. 33—168.

Buisson, Pierre. Electrical apparatus for successive measurement and simultaneous indication on an oscilloscope of a plurality of inputs together with a fixed reference. 3,161,-827, 12–15–64, Cl. 324—121.

Bujan, Albert F., to Abbott Laboratories. Air filter assembly. 3,157,481, 11–17–64, Cl. 55—417.

Bujnowski, Raymond S., to General Motors Corp. Tray drain-hose nipple. 3,129,020, 4–14–64, Cl. 285—110.

Bukata, Stephen. Brazing furnace. 3,130,293, 4–21–64, Cl. 219—85.

Bukatman, Bernice and J. Bedspread with toy devices. 3,120,721, 2–11–64, Cl. 46—202.

Bukatman, Jerome : *See*—
Bukatman, Bernice and J. 3,120,721.

Bukovsky, John. Skirt marker. 3,122,834, 3–3–64, Cl. 33—9.

Bulba-Popkov, Vasily S. : *See*—
Hoody, Jusha, Kootinov, and Bulba-Popkov. 3,160,159.

Bulcock, Colin L. L., to Lupton Brothers Ltd. Loom temple with a weft thread cutting device. 3,127,914, 4–7–64, Cl. 139—303.

Bulgarelli, Eugenio : *See*—
Endler, Harry H. A. and Bulgarelli. 3,132,157.

Bulgartabac, State Commercial Enterprise : *See*—
Dinkov, Ivan V., Russev, Stephanov, and Nitchev. 3,145,-647.

Bulgin, A. F., & Co. Ltd. : *See*—
Bulgin, Arthur F. 3,132,224.

Bulgin, Arthur F., to A. F. Bulgin & Co. Ltd. Combined fuse holder and indicating lamp unit. 3,132,224, 5–5–64, Cl. 200—121.

Bulgin, Douglas, to Dunlop Rubber Co. Ltd. Process for electrostatically coating nonconductive articles. 3,130,067, 4–21–64, Cl. 117—47.

Bulgrin, Walter W. : *See*—
Luther, Karl, Parent, and Bulgrin. 3,143,015.

Bulgrin, Walter W., to The Firestone Tire & Rubber Co. Single walled metal containers. 3,143,238, 8–4–64, Cl. 220—5.

Bulgrin, Walter W., and M. H. MacKusick, to The Firestone Tire & Rubber Co. Wheel disks and disk wheel assemblies. 3,143,377, 8–4–64, Cl. 301—63.

Bulk, Jan, and L. P. Weenink, to North American Philips Co., Inc. Coupling member for connecting component lead to a printed circuit board. 3,133,774, 5–19–64, Cl. 339—17.

Bull, Arthur W. : *See*—
Dunnabeck, Donald F., and Bull. 3,144,627.

Bull, George F., and R. J. Mann, to British Celanese Ltd. Increasing safe ironing temperatures of cellulose triacetate fibers with swelling agents boiling above 190° C. 3,132,919, 5–12–64, Cl. 8—131.

Bull, Harry W. : *See*—
Kirkwood, Lewis E., Bull, Cornell, and Buttery. 3,129,869.

Bullard, Burke M. Motorized player piano spill valve. 3,142,220, 7–28–64, Cl. 84—42.

Bullard Co., The : *See*—
Bullard, Edward P., IV. 3,149,507.
Bullard, Edward P., III, and E. P. Bullard, IV. 3,118,-345.
Bullard, Edward P., III, and E. P. Bullard, IV. 3,121,-349.

Bullard, E. D., Co. : *See*—
Geraghty, Robert M. 3,123,040.

Bullard, Edward P., IV : *See*—
Bullard, Edward P., III, and E. P. Bullard, IV. 3,118,-345.
Bullard, Edward P., III, and E. P. Bullard, IV. 3,120,-762.
Bullard, Edward P., III, and E. P. Bullard, IV. 3,121,-349.
Bullard, Edward P., III and E. P. Bullard, IV. 3,145,-577.

Bullard, Edward P., IV, to The Bullard Co. Machine tool. 3,149,507, 9–22–64, Cl. 77—3.

Bullard, Edward P., III, and E. P. Bullard, IV, to The Bullard Co. Tool spindle drawbar. 3,118,345, 1–21–64, Cl. 90—11.

Bullard, Edward P., III, and E. P. Bullard, IV. Machine control. 3,120,762, 2–11–64, Cl. 74—365.

Bullard, Edward P., III, and E. P. Bullard, IV, to Bullard Co. Control mechanism. 3,121,349, 2–18–64, Cl. 74—751.

Bullard, Edward P., III and E. P. Bullard, IV. Semi-automatic control for machine tools. 3,145,577, 8–25–64, Cl. 74—335.

Bullen, Edward M.: *See*—
Loew, Harold F., Gaines, Bullen, and Hargis. 3,162,177.
Bullerwell, Osborne L.: *See*—
MacLaughlin, Lucius T., and Bullerwell. 3,149,870.
Bulley, John L., and F. W. Hole, to J. D. Riordan, and G. C. Libby. Dobby mechanisms for looms. 3,152,619, 10–13–64, Cl. 139—58.
Bullinger, Charles F.: *See*—
Harrer, Joseph M., Bullinger, and Kolba. 3,161,571.
Bullis, Robert H.: *See*—
Lary, Edmund C., Meyerand, and Bullis. 3,139,551.
Bullock, Earl R., to General Electric Co. Logic circuit utilizing a latch type switching device as a permanent memory element. 3,158,761, 11–24–64, Cl. 307—88.5.
Bullock, Earle C., to Steelcase, Inc. Pedestal with locking means. 3,123,417, 3–3–64, Cl. 312—221.
Bullock, Earle C., to Steelcase, Inc. Extendible drawer-support. 3,131,982, 5–5–64, Cl. 312—339.
Bullock, Earle C., and A. R. Olree, to Steelcase, Inc. Latch mechanism. 3,122,402, 2–25–64, Cl. 312—320.
Bullock, Harry L., to Herbert Simpson Corp. Electrostatic separation. 3,143,492, 8–4–64, Cl. 209—127.
Bullock, Ira A. Vacuum breaker. 3,159,171, 12–1–64, Cl. 137—218.
Bullock, Norman J., to General Motors Corp. Clothes washer agitator. 3,132,500, 5–12–64, Cl. 68—17.
Bulloff, Jack J.: *See*—
Whitacre, John R., and Bulloff. 3,129,487.
Bullough, Ronald: *See*—
Rouse, Robert L., Wakefield, Willis, Bullough, and Newman. 3,129,119.
Bullough, Ronald, R. C. Newman, J. Wakefield, R. L. Rouse, and J. B. Willis, to Associated Electrical Industries Ltd. Production of P-N junctions in semi-conductor material. 3,154,838, 11–3–64, Cl. 29—25.3.
Bulman, E. O., Mfg. Co., Inc.: *See*—
Waltz, Edward. 3,149,764.
Bulmer, Donald L. Measuring dispenser. 3,130,874, 4–28–64, Cl. 222—142.8.
Bulmer, George H., to United Kingdom Atomic Energy Authority. Fire-resisting containers. 3,135,419, 6–2–64, Cl. 220—63.
Bulova Research and Development Laboratories, Inc.: *See*—
Schulman, Sidney B. 3,130,581.
Bulova Watch Co., Inc.: *See*—
Fenton, Stuart J., and Stoliar. 3,147,384.
Heller, Oscar. 3,136,877.
Hetzel, Max. 3,149,274.
Van Haaften, Egbert. 3,162,006.
Bulovic, Bozdar, to Wm. Wrigley Jr. Co. Container assembly. 3,133,634, 5–19–64, Cl. 206—47.
Bulow, Knut O. Device for regulating and stopping the removal of cable from a tow target cable storage means. 3,143,346, 8–4–64, Cl. 273—105.3.
Bult, Donald D.: *See*—
Bult, John E. and D. D. 3,128,844.
Bult, John E. and D. D. Auxiliary oil supply system for motor vehicle engines. 3,128,844, 4–14–64, Cl. 184—105.
Buma Engineering Co. Ltd.: *See*—
Malia, Austin P., and Wiles. 3,128,647.
Bumberger, Horst, to Vereinigte Osterreichische Eisen-und Stahlwerke Aktiengesellschaft. Cooling system for cooling hollow trunnions on trunnion rings of refining crucibles. 3,163,695, 12–29–64, Cl. 266—36.
Bumiller, Jacques, to Sarmi S.A., Societe d'Applications de Recherches Minieres et Industrielles. Percussion mechanism for fixing gun. 3,119,113, 1–28–64, Cl. 1—44.5.
Bumpus, Arthur E., Jr., F. J. Stavish, and R. A. Weinberg, to Lockheed Aircraft Corp. Variable rate computing and recording register. 3,121,531, 2–18–64, Cl. 235—58.
Bundrant, Charles O.: *See*—
Reddie, William A., and Bundrant. 3,127,343.
Bundschuh, John J., W. T. Hochreiter, and R. J. Bresson, to Eastman Kodak Co. Exposure control means for photographic camera. 3,120,791, 2–11–64, Cl. 95—11.
Bundschuh, John J., W. T. Hochreiter, and R. J. Bresson, to Eastman Kodak Co. Photographic exposure computer. 3,125,939, 3–24–64, Cl. 95—10.
Bundshuh, Edward F.: *See*—
Dega, Robert L., and Bundshuh. 3,128,880.
Bundus, Robert H.: *See*—
Noznick, Peter P., Bundus, and Eggen. 3,126,283.
Bundy, Robert W., to E. I. du Pont de Nemours and Co. Process for forming a non-woven sheet of fibers and fibrids 3,123,518, 3–3–64, Cl. 162—216.
Bundy Tubing Co.: *See*—
Payne, Arthur W. 3,136,351.
Payne, Arthur W. 3,143,008.
Bundy, Wayne M., to Georgia Kaolin Co. Planographic inks containing aluminum hydroxide coated kaolinite particles. 3,151,993, 10–6–64, Cl. 106—20.
Bunel, André E., to A. Cazeneuve Etablissements. Feelers for copying devices for machine tools and applications. 3,121,358, 2–18–64, Cl. 82—14.
Bungardt, Walter, to Ronson Metals Corp. Pyrophoric alloys without iron. Re. 25,558, 4–21–64, Cl. 75—152.
Bungay, George W., to Electrographic Corp. Method for forming composite printing plates. 3,125,952, 3–24–64, Cl. 101—401.1.

Bunge, Wilhelm, O. Bayer, and K.-H. Mielke, ½ to Farbenfabriken Bayer Aktiengesellschaft, and ½ to Mobay Chemical Co. Wire insulated with polyester resin from benzene tricarboxylic acids and method of insulating. 3,122,451, 2–25–64, Cl. 117—232.
Bunger, Dennen J.: *See*—
Ferguson, John H., Jr, and Bunger. 3,151,451.
Bunger, Dennen J., and J. H. Ferguson, Jr., to The Bendix Corp. Electro-mechanical control for air breathing starter. 3,151,452, 10–6–64, Cl. 60—39.14.
Bunger, Hilary D. Pour spout carton. 3,123,275, 3–3–64, Cl. 229—17.
Bungeroth, Adolf, and H. Schrewe, to Mannesmann Aktiengesellschaft. Extrusion conveyor apparatus for multiple casting installations. 3,130,459, 4–28–64, Cl. 22—57.5.
Bungo, Joseph, to The Bendix Corp. Adjustable temperature compensator. 3,124,957. 3–17–64, Cl. 73—362.4.
Bungs, Janis A., to Diamond Alkali Co. Preparation of xylylene glycol polymers. 3,120,497, 2–4–64, Cl. 260—2.
Bunker, Carleton H., and J. J. James, to Diamond Expansion Bolt Co., Inc. Wire stripper. 3,151,510, 10–6–64, Cl. 81—9.5.
Bunker-Ramo Corp., The: *See*—
Alexander, Irving H. 3,158,317.
Aroyan, George F. 3,138,712.
Aroyan, George F., and Williams. 3,143,654.
Beynon, John C. 3,159,785.
Chapman, Robert L., Brown, Carpenter, and Wyman. 3,141,243.
Corbel, Raymond C., and Mellott. 3,163,777.
Czubiak, Joseph L. 3,159,791.
Czubiak, Joseph L., Finchum, and Inston. 3,159,803.
Develet, Jean A., Jr. 3,137,819.
MacIntyre, Robert M. 3,162,817.
Smeltzer, Jack C. 3,156,815.
Whitney, Theodore R. 3,144,554.
Bunn, B. H., Co.: *See*—
Bolz, Bernhart A., and Morrill. 3,149,558.
Bunn, Benjamin H. 3,160,088.
Bunn, Benjamin H., to B. H. Bunn Co. Apparatus for typing moving bundles. 3,160,088, 12–8–64, Cl. 100—7.
Bunn Capitol Co.: *See*—
Martin, James S. 3,149,556.
Bunn, George R., to Bunn-O-Matic Corp. Coffee making machine. Re. 25,663, 10–13–64, Cl. 99—282.
Bunnell, Glenn R., and W. M. Shields, to Special Engineering Service, Inc. Stock feeder. 3,157,334, 11–17–64, Cl. 226—150.
Bunnell, William S., to Boyar-Schultz Corp. Tool. 3,144,-795, 8–18–64, Cl. 82—35.
Bunn-O-Matic Corp.: *See*—
Bunn, George R. Re. 25,663.
Bunny Bear, Inc.: *See*—
Linden, Samuel. 3,132,897.
Bunten, Helmut, to Durkoppwerke Aktiengesellschaft. Transporting mechanism for conveyor system. 3,151,730, 10–6–64, Cl. 198—38.
Bunten, Paul H., to Repco Products Corp. Baseboard radiator with connector units. 3,141,499, 7–21–64, Cl. 165—55.
Buntin, George A., to Hercules Powder Co. Preparation of alicyclic amines from alicyclic isothiocyanates. 3,150,183, 9–22–64, Cl. 260—563.
Buntin, George A., to Hercules Powder Co. Process for producing substituted norbornyl ureas. 3,163,674, 12–29–64, Cl. 260—553.
Bunting, Allen G., to Plasteel Corp. Separable article-containing assembly and ornamental structure made therefrom. 3,127,302, 3–31–64, Cl. 161—16.
Bunting Brass and Bronze Co., The: *See*—
Spaulding, David C., Jr. 3,142,972.
Bunting, Ernest V., to Massey-Ferguson Inc. Valve mechanism. 3,142,316, 7–28–64, Cl. 137—625.18.
Bunting, Warren J., J. J. Goodrich, and M. E. Blais, to St. Regis Paper Co. Multi-box like container. 3,143,273, 8–4–64, Cl. 229—51.
Bunting, William W., Jr.: *See*—
Ashby, William C., Bunting, Meagher, Nelson, and Swayne. 3,156,395.
Buntpapierfabrik A.G.: *See*—
Göbel, Johannes. 3,128,197.
Buntz, Billie J., and L. A. Unnerstall, to United States of America, Atomic Energy Commission. Lubrication of mandrels for tube extrusion. 3,153,482, 10–20–64, Cl. 207—3.
Buonanno, Joseph E., and W. Argereu. Puck construction. 3,117,788, 1–14–64, Cl. 273—128.
Buono, Frank S., to Becton, Dickinson and Co. Bag and method of making the same. 3,155,134, 11–3–64, Cl. 150—7.
Buotte, Joseph R., and J. A. Word, to Bell Telephone Laboratories, Inc. Order wire and alarm circuits. 3,130,277, 4–21–64, Cl. 179—175.31.
Burachinsky, Bohdan V.: *See*—
Bernardi, Dominic J., Burachinsky, and Czeropski. 3,141,408.
Buralli Ettore, to Remital Societa per Azioni Studio e Realizzazioni Elettromeccaniche. Machine for winding coils in grooves of stator rings. 3,125,307, 3–17–64, Cl. 242—4.
Buralli Ettore, to Remital Societa per Azioni Studio e Realizzazioni Elettromeccaniche. Apparatus for winding a coil on a toroidal core. 3,125,308, 3–17–64, Cl. 242—4.

Burba, Bernard T., to Recreation Supply Co. Controlled-flow-inlet swimming pool system. 3,157,597, 11–17–64, Cl. 210—137.
Burbach, John C., to Union Carbide Corp. Phthalocyanine chelates. 3,137,703, 6–16–64, Cl. 260—314.5.
Burback, Charles W. Fish lures. 3,125,822, 3–24–64, Cl. 43—42.48.
Burbank, John E., to Scovill Mfg. Co. Zipper fastener structure. 3,135,036, 6–2–64, Cl. 24—205.1.
Burbank, John E. Means of and apparatus for making and mating coils of filamentary material. 3,145,523, 8–25–64, Cl. 57—1.
Burbank, John E., to Scovill Mfg. Co. Method and apparatus for making plastic filament coils for zipper fasteners. 3,152,433, 10–13–64. Cl. 57—18.
Burbank, John E., to Scovill Mfg. Co. Fastener end terminal. 3,162,918, 12–29–64, Cl. 24—205.11.
Burbank, Robert C., to Jantzen Inc. Men's swim suit construction with embedded suspensory. 3,141,458, 7–21–64, Cl. 128—159.
Burbeck, Donald W., E. E. Bolles, W. E. Frady, Jr., W. L. Exner, J. D. Hogan, and A. D. Scarbrough, to United States of America, Air Force. Automatic shoran bombing system. 3,154,780, 10–27–64. Cl. 343—13.
Burbine, William G.: *See*—
Jordan, Merrill E., Cole, Burbine, and Petterson. 3,140,-192.
Burbridge, Bernard W., and P. T. White, to The British Petroleum Co. Ltd. Production of porous refractory oxide materials. 3,162,607, 12–22–64, Cl. 252—477.
Burch, Archie E. Precision applicator. 3,140,017, 7–7–64, Cl. 222—197.
Burch, Charles J., to Union Carbide Corp. Metal casting in a protective atmosphere. 3,142,099, 7–28–64, Cl. 22—214.
Burch, Donald C., R. E. Trosien, R. Helle, and R. C. Woofter, to General Motors Corp. Vehicle-panel connector. 3,146,-052, 8–25–64, Cl. 339—91.
Burch, Homer A., to The Norwich Pharmacal Co. 4,5-dihydro - 6 - (5 - nitro - 2 - furyl) - as - triazin - or pyridazin-3(2H)-one. 3,138,593, 6–23–64, Cl. 260—248.
Burch, James R., to General Electric Co. Device for mounting apparatus. 3,160,280, 12–8–64, Cl. 211—89.
Burch, Neil R., and H. E. Childers. Apparatus including transmitting and receiving means for analyzing aperiodic waveforms. 3,123,768, 3–3–64, Cl. 324—77.
Burch, Robert J., and C. E. Schildknecht, to Air Reduction Co., Inc. Stabilization of ene-yne compounds. 3,117,167, 1–7–64, Cl. 260—666.5.
Burch, William B.: *See*—
Friedell, Morley V. 3,163,308.
Burckhalter, Joseph H., to Parke, Davis & Co. 1-(2-pyridyl) 1-phenyl-2-aryl propenes. 3,124,585, 3–10–64, Cl. 260—290.
Burckhalter, Robert N., to Commercial Filters Corp. By-pass assembly for filters. 3,161,589, 12–15–64, Cl. 210—130.
Burckhardt, Manfred H.: *See*—
Altman, Werner E., Enke, and Burckhardt. 3,129,794.
Foerster, Hans-Joachim M., and Burckhardt. 3,152,446.
Burckhardt, Otto, to Eisenwerk Hensel. Stone sawing machines. 3,120,223, 2–4–64, Cl. 125—16.
Burden, Harry C., to Sandusky Foundry & Machine Co. Coating apparatus. 3,130,077, 4–21–64, Cl. 118—306.
Burden, Jack S.: *See*—
Jeffries, Joseph L. 3,127,194.
Burden, Richard W., and W. S. Halstead. Compatible stereophonic broadcast system. 3,117,186, 1–7–64, Cl. 179—15.
Burden, Robert W., and D. L. Schmidt, to Ling-Temco-Vought, Inc. Actuator. 3,152,522, 10–13–64, Cl. 92—112.
Burdeshaw, Thomas A., to Southern States Inc. Drop out fuse having motivating means and slidably mounted on one of its terminals. 3,153,126, 10–13–64, Cl. 200—114.
Burdett, John T., to Harper-Wyman Co. Thermostatic gas valve. 3,125,293, 3–17–64, Cl. 236—99.
Burdick, Everette M. Method of cultivating papaya plants and for recovering proteolytic enzymes from papaya plants. 3,141,832, 7–21–64, Cl. 195—66.
Burdick, John M.: *See*—
Dehring, Paul E., and Burdick. 3,143,380.
Burdick, Ralph V., and R. V. Burdick, Jr. Container with snap-off cover. 3,130,857, 4–28–64, Cl. 220—43.
Burdick, Ralph V., Jr.: *See*—
Burdick, Ralph V., and R. V. Burdick, Jr. 3,130,857.
Burdick, Richard. Coin storing and displaying devices. 3,139,977, 7–7–64, Cl. 206—.83.
Burdine, James M.: *See*—
Walker, William E., Sr., and W. E. Walker, Jr. 3,136,-341.
Burdock, Joseph L., to Aerotec Industries, Inc. Gas scrubber. 3,131,043, 4–28–64, Cl. 55—346.
Burdock, Joseph L., and A. J. Cioffi, to Aerotec Industries, Inc. Multiple compartment centrifugal separator. 3,147,-099, 9–1–64, Cl. 55—344.
Bureau, Alfred C., to The United Steel Companies Ltd., and Henry Balfour & Co. Ltd. Apparatus for contacting fluidized solid particles with gas. 3,117,844, 1–14–64, Cl. 23—260.
Bureau d'Etudes Armand Malchoir Societe Anonyme: *See*—
Malchair, Armand. 3,131,064.
Bureau d'Etudes Industrielles Fernand Courtoy: *See*—
Zimmer, Frantisek. 3,123,447.
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Burford, Charles L. Random time interval generator. 3,155,-848, 11–3–64, Cl. 307—106.
Burford Co., The: *See*—
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Burford, Earl E., to The Burford Co. Method and apparatus for tieing packages and wrapping materials. 3,138,904, 6–30–64, Cl. 53—14.
Burg, Anton B., and L. R. Grant, to American Potash & Chemical Corp. Preparation of bis-phosphines. 3,118,951, 1–21–64, Cl. 260—606.5.
Burg, Fred G., to Burgmaster Corp. Lead screw operated tapping spindle with quick acting reversing means. 3,145,-401, 8–25–64, Cl. 10—137.
Burg, Joseph L., to Burgmaster Corp. Reciprocating feed device for machine tools. 3,129,613, 4–21–64, Cl. 77—25.
Burg, Joseph L., to Burgmaster Corp. Spindle selector for machine having a turret head. 3,138,974, 6–30–64, Cl. 77—25.
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Lafferty, James M., Cobine, and Burger. 3,125,441.
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Burger, Francis J. P. J., and D. M. Cheseldine, to Her Majesty the Queen in the right of Canada as represented by the Minister of National Defence. Electrolytic capacitors and electrolyte therefor. 3,138,746, 6–23–64, Cl. 317—230.
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Pohlemann, Heinz, Burger, and Leichtle. 3,150,166.
Burger, Leland L., to United States of America, Atomic Energy Commission. Extraction of plutonium and uranium values from aqueous solution. 3,157,463, 11–17–64, Cl. 23—14.5.
Burger, Nicholas J., and E. W. Meng, to Electro-Therm, Inc. Welding preheater. 3,158,735, 11–24–64, Cl. 219—342.
Burger, Raymond. Continuous chain press. 3,121,862, 2–11–64, Cl. 144—281.
Burger, William H., to Kimberly-Clark Corp. Papermaking machine. 3,146,649, 9–1–64, Cl. 83—86.
Burgess, Carlton M., to General Motors Corp. Snap-on connected plate structure. 3,149,747, 9–22–64, Cl. 220—60.
Burgess, Carter L., to American Machine & Foundry Co. Manually or automatically illuminated bowling guide. 3,120,956, 2–11–64, Cl. 273—54.
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Petroff, Merlin O., and Congdon. 3,145,485.
Burgess, Frank H., G. Mathus, and O. Morningstar, to Morningstar Corp. Reel case. 3,138,250, 6–23–64, Cl. 206—52.
Burgess, Herbert R.: *See*—
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Burgess, Hovey M., and J. B. Johnson, to General Foods Corp. Binder product and process. 3,159,505, 12–1–64, Cl. 127—32.
Burgess, James V., Jr. Mine ventilation control system. 3,118,363, 1–21–64, Cl. 98—50.
Burgess, Leonard G.: *See*—
Hillger, Frederick B., and Burgess. 3,145,834.
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Hannula, Leslie A. 3,148,246.
Burgess-Norton Mfg. Co.: *See*—
Waller, Gustav M. 3,131,470.
Waller, Gustav M. 3,133,458.
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Burgess Vibrocrafters, Inc.: *See*—
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Burggren, Robert C., to Honeywell Inc. Pressure sensing apparatus. 3,161,059, 12–15–64, Cl. 73—398.
Burggren, Robert C., and C. H. Waldhauer, Jr., to Minneapolis-Honeywell Regulator Co. Air data computing apparatus. 3,135,861, 6–2–64, Cl. 235—151.
Burgher, Maurice W.: *See*—
Blackington, Paul A., and Burgher. 3,125,704.
Burghoff, Henry L., and F. G. Parker, to Chase Brass & Copper Co. Inc. Copper base alloys and the method of treating the same to improve their machinability. 3,158,470, 11–24–64, Cl. 75—135.
Burgin, Kenneth: *See*—
Creasey, Raymond F., and Burgin. 3,130,944.
Burgin, Kermit H., 80% to F. B. Cline. Water jet drive. 3,128,740, 4–14–64, Cl. 115—12.
Burgio, Raymond A., Jr. Pocketbook construction. 3,144,-065, 8–11–64, Cl. 150—35.
Burgis, Clare N., to United States of America, Navy. Cascaded relay channel selecting system. 3,147,385, 9–1–64, Cl. 307—38.
Burgmaster Corp.: *See*—
Burg, Fred G. 3,145,401.
Burg, Joseph L. 3,129,613.
Burg, Joseph L. 3,138,974.

Burgoon, David W., and E. J. Ciabattari, to Yeomans Bros. Co. Apparatus for sewage treatment. 3,149,071, 9–15–64, Cl. 210—197.

Burgoon, Jack L., to American Lincoln Corp. Scrubbing machine. 3,121,895, 2–25–64, Cl. 15—50.

Burgsmueller, Karl. Deep hole boring. 3,158,043, 11–24–64, Cl. 77—5.

Burgy, Raymond A., to Toledo Scale Corp. Dispatching control for a group of elevators. 3,126,982, 3–31–64, Cl. 187—29.

Burhans, Ralph W., W. Jackson, Jr., and P. J. Stevko, to The Standard Oil Co. Computing apparatus. 3,134,017, 5–19–64. Cl. 235—180.

Burhorn, Friedrich: *See*—
Goeschel, Heinz, and Burhorn. 3,160,768.

Burion, Etienne P., and R. A. M. Toesca. Power-driven compressor device. 3,162,357, 12–22–64, Cl. 230—56.

Burk, Emmett H., Jr., H. Erickson, and A. D. Anderson, to Sinclair Research, Inc. Method of removing nickel and vanadium from synthetic gel silica-based catalysts. 3,122,-510, 2–25–64, Cl. 252—413.

Burk, George A.: *See*—
Asadorian, Arthur A., and Burk. 3,130,222.

Burk, George A., and R. A. Davis, to The Dow Chemical Co. Preparation of bromochloropicrins. 3,159,686, 12–1–64, Cl. 260—644.

Burk, Hurdie H., Jr.: *See*—
Braen, Henry P., and Burk. 3,119,102.

Burk, Hurdie H., Jr., to International Business Machines Corp. Position indicating means. 3,148,325, 9–8–64, Cl. 323—51.

Burk, Jo G. Drip dry shower curtain rod. 3,119,496, 1–28–64, Cl. 211—105.1.

Burk, Lucius O., and F. J. Will, to General Motors Corp. Expendable pallet and leg. 3,130,692, 4–28–64, Cl. 108—51.

Burk, Marvin C., to Phillips Petroleum Co. Electrical measuring apparatus. 3,121,160, 2–11–64, Cl. 235—92.

Burk, Marvin C., to Phillips Petroleum Co. Electrical measuring apparatus. 3,152,301, 10–6–64, Cl. 323—75.

Burk, Marvin C., and C. E. Jones, to Phillips Petroleum Co. Timing apparatus. 3,119,995, 1–28–64, Cl. 340—347.

Burk, Robert E. Process of forming acrylic resin casting using a perfluorocarbon surfaced mold. 3,142,715, 7–28–64, Cl. 264—213.

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Burke, Arthur J., to Scale Co. Weighing systems. 3,124,206, 3–10–64, Cl. 177—46.

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Kay, John D. 3,128.524.
Kay, John D. 3,128,525.

Burke, Daniel B., and F. M. Ketch, to General Foods Corp. Method of making yeast-raised baked products. 3,144,338, 8–11–64, Cl. 99—90.

Burke, Derek C., to National Research Development Corp. Process for the purification of interferon. 3,144,390, 8–11–64, Cl. 167—78.

Burke, Frederick A.: *See*—
Kolster, Harvey L., Burke, and Long. 3,120,199.

Burke, George F. C.: *See*—
Bradley, Robert W.. and Burke. 3,156,432.

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Cardani, Charles P., Romeo, Burke, and Hanson. 3,142,-896.

Burke, George J. Devices for locating oil fill caps or boxes. 3,120,067, 2–4–64, Cl. 40—10.

Burke, Harry E., to Consolidated Systems Corp. Telephone call accounting system. 3,160,709, 12–8–64, Cl. 179—7.1.

Burke, James D. J., Jr., and C. O. Hawkins, to E. I. du Pont de Nemours and Co. Method for forming spinning orifices in spinneret plate structures. 3,141,358, 7–21–64, Cl. 76—107.

Burke, Jerry A., Jr.: *See*—
Barnes, Vernon M., Jr., Burke, King, and Wolf. 3,139,-794.

Burke, John A.: *See*—
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Burke, Joseph E., to United States of America, Atomic Energy Commission. Method of making fuel compacts for neutronic systems. 3,156,747, 11–10–64, Cl. 264—21.

Burke, Nelson W., to Minneapolis-Honeywell Regulator Co. Electrical apparatus for monitoring a record tape. 3,146,-430, 8–25–64, Cl. 340—174.1.

Burke, Norman E., to General Electric Co. Packaging carton for clocks or the like. 3,123,274, 3–3–64, Cl. 229—14.

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Stahly, Eldon E. 3,157,615.
Stahly, Eldon E. 3,163,616.

Burke, Oliver W., Jr., O. M. Grace, and R. G. Jennen, deceased, by M. Berry, temporary public administrator; said Grace and said Berry assors. to said Burke, Jr. Process for the preparation of aqueous dispersions of graft interpolymer material. 3,144,426, 8–11–64, Cl. 260—29.7.

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Tinker, George H., Mai, and Burke. 3,152,895.

Burkert, George M., and K. A. Walsh, to International Minerals & Chemical Corp. Production of amine fluorides. 3,134,815, 5–26–64, Cl. 260—583.

Burket, Richard S., to E. I. du Pont de Nemours and Co. Tray packages. 3,119,492, 1–28–64, Cl. 206—62.

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Burket, Robert E., and D. M. Stewart, to Allegheny Ludlum Steel Corp. Method of annealing magnetic materials. 3,138,494, 6–23–64, Cl. 148—103.

Burkett, Albert L. Comminution device. 3,160,354, 12–8–64, Cl. 241—275.

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Foerster, George S., and Burkett. 3,125,444.

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Burkhard, John, to American Machine & Foundry Co. Cigarette machine for making mouthpiece cigarettes. 3,156,-246, 11–10–64, Cl. 131—94.

Burkhardt, Charles E., and B. B. Ellis, to Westinghouse Electric Corp. Magnetic core structure. 3,153,215, 10–13–64, Cl. 336—217.

Burkhardt, Gisbert, to Telefunken Patentverwertungs-G.m.b.H. Shift register control for article handling device. 3,141,-540, 7–21–64, Cl. 198—38.

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Burkholder, Woodrow C., to Swift & Co. Display cabinet. 3,135,568, 6–2–64, Cl. 312—116.

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Burkig, Jack W., and J. E. Richardson, to Hughes Aircraft Co. Method of making an electrical interconnection grid. 3,142,112, 7–28–64, Cl. 29—155.5.

Burkin, Alfred R., and H. D. Sawyer, to National Research Development Corp. Treatment of pyrochlore. 3,141,766, 7–21–64, Cl. 75—114.

Burkitt, Keith G., to Ford Motor Co. Independent suspension. 3,139,275, 6–30–64, Cl. 267—20.

Burkley, Ralph A., D. C. Cully, and J. L. Folk, to Goodyear Aerospace Corp. Laminates. 3,135,645, 6–2–64, Cl. 161—165.

Burklo, Donald C.: *See*—
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Burleigh, Joseph H., to Cutter Mail Chute Co. Sheet-feeding device. 3,155,386, 11–3–64, Cl. 271—26.

Burleson, Aaron, to Burlington Industries, Inc. Stretch fabric and method of making the same. 3,135,104, 6–2–64, Cl. 66—169.

Burleson, Aaron, to Burlington Industries, Inc. Hosiery fabric or the like and method of producing the same. 3,153,923, 10–27–64, Cl. 66—178.

Burley, Billy, to Johnson Service Co. Electronic system including a plurality of selectively-operable condition-responsive controls. 3,130,319, 4–21–64, Cl. 307—29.

Burley, Charles W., to Servonic Instruments, Inc. Electrical transducer. 3,126,519, 3–24–64, Cl. 338—40.

Burley, Joseph C., to Boston Insulated Wire & Cable Co. Elevator cable. 3,155,769, 11–3–64, Cl. 174—121.

Burling, Elmer R., and L. A. Carlsmith. Continuous pulping extraction apparatus. 3,158,533, 11–24–64, Cl. 162—237.

Burling, Herbert S. Temperature control. 3,130,354, 4–21–64, Cl. 317—132.

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Burleson, Aaron. 3,153,923.
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Gliksmann, David. 3,127,658.
Hall, Quentin W., and Solomon. 3,124,918.
Pinson, Marvin J., Jr. 3,153,838.

Burlison, Garry L., and J. P. Savok. Ventilated boot. 3,128,566, 4–14–64, Cl. 36—3.
Burman, Joseph O., to Progressive Machinery Corp. Box construction. 3,147,880, 9–8–64, Cl. 220—35.
Burman, Joseph O., Jr., to Progressive Machinery Corp. Hinged box construction. 3,128,898, 4–14–64, Cl. 220—35.
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Burn, Philip H. Marine toilet. 3,154,795, 11–3–64, Cl. 4—77.
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Bradshaw, Edward F. 3,127,468.
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Greco, Peter F., and Noschese. 3,160,459.
Greco, Peter F., and Parsons. 3,127,228.
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Solorow, Russell S., and Rosenfeld. 3,120,989.
Burne, Martin J., and A. C. McAdams. Display unit. 3,126,844, 3–31–64, Cl. 108—111.
Burnel, Philippe. Circular loom. 3,128,795, 4–14–64, Cl. 139—13.
Burnell, Maurice R., R. A. Foster, and W. S. Gallaway, to Beckman Instruments, Inc. Gas chromatography with means to flow ionization particles into the ionization chamber. 3,134,898, 5–26–64, Cl. 250—43.5.
Burnett, Arden L. Method of dry-docking a ship and dry dock therefor. 3,133,420, 5–19–64, Cl. 61—64.
Burnett, Arden L. Dry dock lock. 3,133,518, 5–19–64, Cl. 114—47.
Burnett, David W., R. L. Kilgore, and W. A. Hardcastle, Jr., to National Gypsum Co. Insulation batt packaging. 3,117,513, 1–14–64, Cl. 100—215.
Burnett, Edward N., to Gerber Products Co. Combined shipping container and organizer for frozen food packages. 3,127,991, 4–7–64, Cl. 206—56.
Burnett, Edward N., to Gerber Products Co. Disposable bib. 3,146,464, 9–1–64, Cl. 2—49.
Burnett, Elmer B., to Ingersoll-Rand Co. Lubrication for pneumatic tools. 3,119,456, 1–28–64, Cl. 173—93.
Burnett, Elmer B., to Ingersoll-Rand Co. Directional and flow rate control valve. 3,123,100, 3–3–64, Cl. 137—625.17.
Burnett, George E. Combination opener and spout for a paper carton. 3,160,322, 12–8–64, Cl. 222—88.
Burnett, James H., to General Signal Corp. Smooth control of polyphase induction motors. 3,129,368, 4–14–64, Cl. 318—227.
Burnett, Richard T., to The Bendix Corp. Auxiliary parking brake with automatic adjustor. 3,133,613, 5–19–64, Cl. 188—72.
Burnett, Richard T., to The Bendix Corp. Automatic adjuster. 3,145,809, 8–25–64, Cl. 188—196.
Burnett, Richard T., to The Bendix Corp. Lever actuated and anchored brake. 3,162,273, 12–22–64, Cl. 188—78.
Burnett, Richard T., and J. L. Mossey, to The Bendix Corp. Combination automatic adjuster and deflection absorbing mechanism. 3,122,222, 2–25–64, Cl. 188—196.
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Burnham, Benjamin K., to Thayer, Inc. Infant's walker and bouncer. 3,145,999, 8–25–64, Cl. 280—36.
Burnham, Charles E. Window well cover. 3,128,508, 4–14–64, Cl. 20—1.
Burnham, Crebert. Single lever remote control for outboard motors. 3,130,598, 4–28–64, Cl. 74—472.
Burnham, John. Electrolytic capacitors. 3,120,695, 2–11–64, Cl. 29—25.31.
Burnham, John B., Jr., and J. G. Darrah, to General Motors Corp. Nuclear reactor fuel element and process for making same. 3,129,141, 4–14–64, Cl. 176—69.
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Burnham, Ted. Nut harvester. 3,131,526, 5–5–64, Cl. 56—328.
Burnham, Wilbur H., Jr., and E. G. Hart. Charcoal grill holders. 3,127,888, 4–7–64, Cl. 126—25.
Burning, Bernard L. Paint implement cleaning device. 3,116,745, 1–7–64, Cl. 134—158.
Burns, Arthur G., to General Precision, Inc. Microwave modulator. 3,159,798, 12–1–64, Cl. 331—42.
Burns, Arthur H., Jr., to Olin Mathieson Chemical Corp. Expanding point bullet. 3,157,137, 11–17–64, Cl. 102—91.
Burns, Arthur H., Jr., and C. M. Schreiber, to Olin Mathieson Chemical Corp. Expanding bullet. 3,143,966, 8–11–64, Cl. 102—91.
Burns, Bruce, and H. Spitz. Garment hanger. 3,140,024, 7–7–64, Cl. 223—93.
Burns, David H., to Telautograph Corp. Telescriber stylus arrangement. 3,133,151, 5–12–64, Cl. 178—18.
Burns, Erwin. Liner hanger. 3,152,643, 10–13–64, Cl. 166—124.
Burns, Erwin. Port collar. 3,152,646, 10–13–64, Cl. 166—224.
Burns, Herbert R., Jr., to International Business Machines Corp. Non-coincidence magnetic gate. 3,124.700, 3–10–64, Cl. 307—88.
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Burns, James O., and S. L. Lloyd-Hughes, to Ormston Burns Ltd. Neck for stringed instruments. 3,159,072, 12–1–64, Cl. 84—293.
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Burns, John H., to The National Cash Register Co. Tape handling apparatus. 3,157,867, 11–17–64, Cl. 340—174.1.
Burns, Joseph R., and J. J. Amodei, to Radio Corp. of America. Shift register including bistable circuit for static storage and tunnel diode monostable circuit for delay. 3,121,176, 2–11–64, Cl. 307—88.5.
Burns, Joseph R., C. W. Campbell, and S. Nowka, to Bell Aerospace Corp. Heat bonding apparatus. 3,151,591, 10–6–64, Cl. 113—59.
Burns, Kay N., to Jersey Production Research Co. Seismic corrections. 3,134,958, 5–26–64, Cl. 340—15.5.
Burns, Kay N., to Jersey Production Research Co. Analog device for least squares fittting. 3,154,678, 10–27–64, Cl. 235—180.
Burns, Lawrence C., and E. M. Krakauer; said Burns assor. to said Krakauer. Meat package. 3,117,875, 1–14–64, Cl. 99—174.
Burns, Leo C., L. M. Davis, C. N. De Bruin, and L. H. Saylor, to Sealed Power Corp. Piston ring assembly. 3,124,364, 3–10–64, Cl. 277—76.
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Burns, Sylvester F., to General Motors Corp. Door latch with integral bolt and ratchet. 3,121,581, 2–18–64, Cl. 292—280.
Burns, Thagrus A. Packaging device. 3,154,899, 11–3–64, Cl. 53—190.
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Burns, William E. Sound generating device for code practice. 3,125,752, 3–17–64, Cl. 340—388.
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Burris, Robert E. Method of and apparatus for teaching mathematics. 3,129,518, 4–21–64, Cl. 35—31.
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Barber, Robert J. 3,159,396.
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Boye, Dale E. 3,151,313.
Brown, John K. 3,152,247.
Clark, Edward G. 3,147,388.
Croy, John E. 3,161,764.
Cruzen, Larry L. 3,125,337.
Cullis, John, Jr. 3,147,398.
Doughty, Frederic C. 3,139,608.
Fechkowsky, Paul. 3,131,931.
Foley, Mark A. 3,138,479.
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Glaser, David, and Hlavka. 3,151,248.
Glaser, Edward L. 3,161,763.
Griggs, John O., Jr. 3,151,545.
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Hansen, Iver C. 3,119,095.
Hardwick, Albert J. 3,154,768.
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Henderson, Robert R. 3,160,860.
Hennessey, William M. 3,151,210.
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Hoberg, George G., Mott, Van Andel, Veitch, and Weise. 3,144,549.
Hoberg, George G., Van Andel, and Veitch. 3,161,765.
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Howell, Richard S. 3,147,534.
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Krossa, Kenneth D. 3,160,765.
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Lessig, Roland. 3,123,355.
MacGregor, Morris. 3,150,873.
Maidment, Earl P. 3,131,932.
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Mayon, Leon, and Zang. 3,160,455.
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Seymour, David W. 3,132,962.
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Siegel, Martin. 3,122,622.
Siegel, Martin. 3,149,225.
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Smithbauer, Donald J. 3,147,703.
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Stram, Oscar B., and Trocky. 3,156,905.
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Valenta, George W. 3,131,382.
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Burroughs, Franklin P., to Control Data Corp. Sorting machine pocket. 3,162,259, 12–22–64, Cl. 177—230.
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Hitchings, George H., and Elion. 3,135,573.
Hitchings, George H., and Elion. 3,135,754.
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Hitchings, George H., Elion, and Mackay. 3,128,274.
Hitchings, George H., Elion, and Mackay. 3,149,111.
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Burrows, Walter F., and A. K. Schwerin, to General Aniline & Film Corp. Production of dyed polymeric images. 3,157,501, 11–17–64, Cl. 96—35.
Burrus, Harry O., J. L. Sheard, and S. N. Vines, to E. I. du Pont de Nemours and Co. Cuprous chloride-benzonitrile catalyst for preparing acetylene reaction products. 3,117,-938, 1–14–64, Cl. 252—429.
Burrus, Paul B., to General Motors Corp. Refrigerating apparatus. 3,137,774, 6–16–64, Cl. 264—45.
Bursak, George J. Rotary pump. 3,126,834, 3–31–64, Cl. 103—126.
Bursak, George J. Retarding brake. 3,153,518, 10–20–64, Cl. 242—75.47.
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Meldrum, Roy W. 3,138,361.
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Burt, Harold S., to Conveyor Systems, Inc. Conveyor apparatus. 3,122,232, 2–25–64, Cl. 198—127.
Burt, James G., to E. I. du Pont de Nemours and Co. Production of saturated aliphatic sulfonamides. 3,119,830, 1–28–64, Cl. 260—293.4.
Burt, James G., to E. I. du Pont de Nemours and Co. Aryl sulfonates. 3,121,104, 2–11–64, Cl. 260—456.
Burt, Robert V., to The Procter & Gamble Co. Container sorting apparatus. Re. 25,673, 11–3–64, Cl. 198—38.
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Burt, William C., to Clair Mfg. Co., Inc. Reciprocating work holder. 3,127,707, 4–7–64, Cl. 51—83.
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Burt, William T., to Minneapolis-Honeywell Regulator Co. Control apparatus. 3,123,985, 3–10–64, Cl. 62—160.
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Burtner, Richard L., to Goodyear Aerospace Corp. Automatic azimuth matching apparatus. 3,155,967, 11–3–64, Cl. 343—7.
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Henderson, Charles B., and Burton. 3,126,704.
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Burton, Paul F., P. F. Fleagle, and R. S. Steeley, to Dixie-Narco, Inc. Ice storage and dispensing hopper. 3,144,965, 8–18–64, Cl. 222—108.
Burton, Ralph M., to Cesco Container Mfg. Corp. Apparatus for ejecting empty cases. 3,127,721, 4–7–64, Cl. 53—53.
Burton, Robert W., to General Motors Corp. Drive line support means. 3,161,253, 12–15–64, Cl. 180—70.
Burton, Robert W., and G. N. Drew, to General Motors Corp. Pedal mounting arrangement. 3,142,199, 7–28–64, Cl. 74—516.
Burton, William B., to Shell Oil Co. Formation of (Cis) heptachlor epoxide. 3,155,689, 11–3–64, Cl. 260—348.5.
Burton, William T., to The Goodyear Tire & Rubber Co. Tire building drum. 3,160,545, 12–8–64, Cl. 156—415.
Burton, William T., to The Goodyear Tire & Rubber Co. Tire building drum. 3,160,546, 12–8–64, Cl. 156—416.
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Bury, George J., to Illinois Tool Works, Inc. Alternate action snap action switch and lighted pushbutton assembly. 3,153,714, 10–20–64, Cl. 200—167.
Bury, George J., to Illinois Tool Works, Inc. Snap-action electric switch. 3,157,758, 11–17–64, Cl. 200—67.
Busala, Alessandro, and J. E. Linse, to Bell Telephone Laboratories, Inc. Gain selective telephone set. 3,147,345, 9–1–64, Cl. 179—81.
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Busch, Friedrich W., to Siemag Siegener Maschinenbau G.m.b.H. Furnace feed apparatus. 3,127,034, 3–31–64, Cl. 214—18.
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Busch, Richard D., to SKF Industries, Inc. Method and apparatus for assembling rolling bearings. 3,148,437, 9–15–64, Cl. 29—148.4.
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Busch, Richard E., to Clary Corp. Intermittent drive mechanism. 3,138,961, 6–30–64, Cl. 74—126.
Busch, Siegfried, R. Hatschek, and F. Pischinger, to H. List. Apparatus for the irradiation or vacuum-coating of specimens. 3,140,393, 7–7–64, Cl. 250—49.5.
Busch, Siegfried, R. Hatschek, and F. Pischinger, to H. List. Piezoelectric gauge. 3,158,763, 11–24–64, Cl. 310—8.7.
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Busey, Harold M., to United States of America, Atomic Energy Commission. Homogeneous reactor fueled with suspended particulate in the coolant. 3,132,997, 5–12–64, Cl. 176—40.
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Bush, John H., C. W. Fifield, J. L. Dwyer, and D. B. Porter, to Millipore Filter Corp. Combination filter and flow divider for gas and liquid. 3,149,758, 9–22–64, Cl. 222—189.
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Branson, Orland D., and Bush. 3,125,856.
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Freeman, George S. P. 3,123,733.
Raffen, William P. F. 3,119,038.
Bush, Richard W., and R. S. Gregorian, to W. R. Grace & Co. Process for oxidizing polyethylene and copolymers containing same. 3,153,025, 10–13–64, Cl. 260—88.2.
Bush, Rex D., to Cutler-Hammer, Inc. Emergency release switch. 3,117,206, 1–7–64, Cl. 200—157.
Bush, Robert G.: *See*—
Shelton, Leonard, Beebee, Jones, and Bush. 3,142,322.
Shelton, Leonard, Jones, and Bush. 3,133,569.
Bush, Vannevar. Free piston hydraulic pump. 3,135,660, 8–25–64, Cl. 103—54.
Bush, Vannevar. Free piston engine. 3,146,765, 9–1–64, Cl. 123—46.
Bush, Vannevar, P. A. Scherer, and R. X. Meyer, to P. A. Scherer. Constant lift system for craft. 3,141,437, 7–21–64, Cl. 114—66.54.
Bushey, Thomas N., to Leesona Corp. Feed roll unit for textile machines. 3,153,312, 10–20–64, Cl. 57—82.
Bushi, Michael. Method of making ball bearings. 3,137,920, 6–23–64, Cl. 29—148.4.
Bushman, E. W., Co., The: *See*—
Vogt, Rudolph B. 3,158,252.
Bushman, Frank W.: *See*—
Ashbaugh, Fred E., and Bushman. 3,140,491.
Bushnell, Eldon W., to Amsted Industries Inc. Rotor brake. 3,148,749, 9–15–64, Cl. 188—59.

Bushnell, Eldon W., to Amsted Industries Inc. Rotor brake. 3,152,663, 10–13–64, Cl. 188—59.

Bushok, William J., Jr.: *See*—
Robba, Albert S., and Bushok. 3,146,659.

Bushway, George H., by S. M. Burns, executor of said G. H. Bushway, deceased, to Shu-Conditioner Inc. Self-adjusting box toe blank conditioning machine. 3,123,500, 3–3–64, Cl. 118—426.

Busillo, Eugene P., to Fischer & Porter Co. Flowmeter. 3,154,945, 11–3–64, Cl. 73—209.

Busillo, Nicholas F. Window safety guard. 3,160,927, 12–15–64, Cl. 20—71.

Busk, Charles W. Feeding and die cutting machine. 3,146,651, 9–1–64, Cl. 83—262.

Busl, Charles W. Cable straightening device. 3,154,115. 10–27-64, Cl. 140—147.

Buslik, Walter S., to International Business Machines Corp. Wear resistant pressure pad. 3,157,868, 11–17–64, Cl. 340—174.1.

Buss, Benjamin A., to Ametek, Inc. Laundry machines. 3,129,598, 4–21–64, Cl. 74—230.17.

Buss, Benjamin A., to Ametek, Inc. Timer control for a washing machine ingredient dispenser. 3,133,673, 5–19–64, Cl. 222—70.

Buss, Benjamin A., to Ametek, Inc. Sheet feeding and spreading apparatus. 3,153,291, 10–20–64, Cl. 38—143.

Buss, Benjamin A., to Ametek, Inc. Cover interlock for a centrifugal separator. 3,163,600, 12–29–64, Cl. 210—146.

Buss, Klaus.: *See*—
Baumann, Kurt, and Buss. 3,140,593.

Bussard, Adrien, to W. C. Heraeus, G.m.b.H. Method and apparatus for sintering premolded objects. 3,121,630, 2–18–64, Cl. 75—200.

Busse, Clarence E. Cutter for dispenser of aluminum foil and like material. 3,142,217, 7–28–64, Cl. 83—375.

Busse, Clarence E. Attachment means for carton to convert same to dispenser. 3,142,426, 7–28–64, Cl. 225—43.

Bussell, George W., to Rinshed-Mason Co. Thermosetting mixture of a styrene-acrylic acid-epoxide-containing compound and an amine-aldehyde resin 3,156,740, 11–10–64, Cl. 260—45.2.

Bussert, Jack F., and F. K. Kawahara, to Standard Oil Co. Motor fuel. 3,129,074, 4–14–64, Cl. 44—69.

Bussey, Atlee H., B. W. Morris, and H. W. Ray, to Aerojet-General Corp. Method of joining elongated objects. 3,160,949, 12–15–64, Cl. 29—421.

Bussey, Gene R., to Consolidated Controls Corp. Multichannel data acquisition and transmission system. 3,125,750, Cl. 340—183.

Bussiere, Rosaire. Stone picking machine. 3,151,682, 10–6–64, Cl. 171—63.

Bussing, Gerardus A.: *See*—
Fransen, Jacobus, and Bussing. 3,119,931.

Bussink, Jan, to American Enka Corp. Synthetic linear polyamides from 2,5-dimethyl-p-phenylene diacetic acid. 3,126,362, 3–24–64, Cl. 260—78.

Bustamante, Cesar. Portable check writer. 3,124,230, 3–10–64, Cl. 197—45.

Bustamante, Cesar. Novelty fabric loom. 3,156,265, 11–10–64, Cl. 139—11.

Butala, John, Jr. Gauging device and method for machining operations. 3,120,062, 2–4–64, Cl. 33—169.

Butcher, Richard E., to The Dow Chemical Co. Fragile lined pipe coupling and gasket therefor. 3,151,869, 10–6–64, Cl. 277—209.

Butcher, Walter W.: *See*—
Proell, Wayne A., Morello, Peters, and Butcher. 3,153,604.

Butcher, Walter W., to Standard Oil Co. Ammonium nitrate gas generating composition with combustion catalyst. 3,148,096, 9–8–64, Cl. 149—19.

Buten, Norman: *See*—
Blank, Fritz A., and Buten. 3,153,517.

Buter, Adrian E., to Allied Chemical Corp. Granular urea-form fertilizer. 3,129,091, 4–14–64, Cl. 71—28.

Buteux, Richard H. B., to Imperial Chemical Industries Ltd. Buffing mops. 3,137,107, 6–16–64, Cl. 51—193.

Butikofer, Robert E., to Standard Oil Co. Continuous method for preparing a nitrogen containing fertilizer. 3,144,321, 8–11–64, Cl. 71—59.

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Nelson, Andrew J., and Butka. 3,158,708.

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Butler, Byron C.: *See*—
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Butler Charles R. Cooling system for internal combustion engines. 3,132,634, 5–12–64, Cl. 123—41.54.

Butler, Charles W.: *See*—
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Butler, Clarence A., to The Lindsay Wire Weaving Co. Porous fabric or structure and the method of making the same. 3,158,984, 12–1–64, Cl. 57—144.

Butler, Colin G.: *See*—
Callow, Robert K., Butler, and Johnston. 3,162,659.

Butler, David F.: *See*—
Into, Henry A., and Butler. 3,127,812.

Butler, De Forest D.: *See*—
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Butler, De Forest D., to Square D Co. Meter socket contact jaw fastening means. 3,137,807, 6–16–64, Cl. 317—111.

Butler, Edward A.: *See*—
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Butler, Edward J. and E. A., to Electronics Research Corp. Automobile safety belt with ignition interlock. 3,154,167, 10–27–64, Cl. 180—82.

Butler, Edward M., and M. M. Fein, to Thiokol Chemical Corp. Stabilized organo-boron fuels. 3,130,019, 4–21–64, Cl. 44—76.

Butler, Eugene W., and J. Williamson, Jr. Complete oxidation sewage treatment plant. 3,118,835, 1–21–64, Cl. 210—221.

Butler, Florence P.: *See*—
Weisberg, Mark, and Butler. 3,163,524.

Butler, George. Viner and separator machines. 3,156,363, 11–10–64, Cl. 209—112.

Butler, George L., and M. R. Emerson, to United Aircraft Corp. Workpiece inspection system. 3,135,055, 6–2–64, Cl. 33—174.

Butler, Henry J., to Dunlop Rubber Co. Ltd. Spot type disc brakes for vehicles. 3,124,217, 3–10–64, Cl. 188—73.

Butler, Jack B. Wheel alignment testing apparatus. 3,124,881, 3–17–64, Cl. 33—169.

Butler, Jacob C., and W. Getz, to The William Getz Corp. Apparatus for the production of crowns. 3,137,894, 6–23–64, Cl. 18—5.7.

Butler, Jesse L., to Sanders Associates, Inc. Strip line to ridged waveguide transition having a probe projecting into waveguide through ridge. 3,146,410, 8–25–64, Cl. 333—21.

Butler, Jesse L., to Sanders Associates, Inc. Phase shifter. 3,146,413, 8–25–64, Cl. 333—31.

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Hedrick, Ross M., Mottus, and Butler. 3,136,738.

Butler, John M., L. A. Miller, and G. L. Wesp, to Monsanto Co. Polymeric sulfonamides. 3,153,020, 10–13–64, Cl. 260—79.3.

Butler, John M., and L. A. Miller, to Monsanto Co. Method of inhibiting growth of fungi and bacteria with ester of acetylenic acid and polyol. 3,156,612, 11–10–64, Cl. 167—22.

Butler, Joseph: *See*—
Stewart, William R., Stewart, and Butler. 3,123,866.

Butler, Keith H., J. M. Harris, and H. H. Homer, to Sylvania Electric Products, Inc. Electroluminescent device. 3,161,797, 12–15–64, Cl. 313—108.

Butler, Leonard F., to National Research Development Corp. Mechanism for obtaining an adjustable relation between the rotation and straight-line translation of a rolling body. 3,131,567, 5–5–64, Cl. 74—1.

Butler Mfg. Co.: *See*—
Anderson, Arthur I., and Konicek. 3,152,842.
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Glenn, Richard L., and O'Dell. 3,134,491.
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Bichard, John, Butler, McPachern, and Wunder. 3,152,979.
Tiedje, John L., Bichard, and Butler. 3,161,581.

Butler, Roger M., and J. Eng, to Esso Research and Engineering Co. Hydrofining process. 3,124,526, 3–10–64, Cl. 208—264.

Butler, Sammy A., to International Business Machines Corp. Shift registers. 3,160,861, 12–8–64, Cl. 340—174.

Butler, Stanley C., and D. L. L. Marsh. Rocket toys. 3,121,292, 2–18–64, Cl. 46—74.

Butler, Thomas A., to The Lubrizol Corp. Lubricant composition. 3,146,201, 8–25–64, Cl. 252—32.5.

Butler, Thomas A., to The Lubrizol Corp. Oxidation-resistant lubricating composition. 3,151,075, 9–29–64, Cl. 252—32.7.

Butler, Thomas C., to The Black and Decker Mfg. Co. Trigger switch with lock for tool or appliance. 3,132,227, 5–5–64, Cl. 200—157.

Butler, William S., P. J. Fontaine, and R. F. Lo Presti, to Goodman Mfg. Co. Stacker conveyor and method of conveying. 3,125,209, 3–17–64, Cl. 198—36.

Butler, William S., and P. J. Fontaine, to Goodman Mfg. Co. Shaker conveyor trough line. 3,133,628, 5–19–64, Cl. 198—220.

Butt, Alan G., and L. J. Dedo, to The Trane Co. Heat exchanger. 3,135,321, 6–2–64, Cl. 165—154.

Butt, Frederick J., to The Dow Chemical Co. Method of packaging viscous materials. 3,157,519, 11–17–64, Cl. 99—171.

Butt, Sheldon H., to Olin Mathieson Chemical Corp. Method of removing atmosphere and then pressure welding. 3,150,445, 9–29–64, Cl. 29—471.5.

Butterfield, James F., to J. F. Butterfield and E. Levitt. Apparatus for producing forms and colors in motion. 3,122,966, 3–3–64, Cl. 88—27.

Butterfield, Walter L.: *See*—
Cash, Carl G., Holberg, and Butterfield. 3,160,512.

Butterworth, Archibald J., to Sidler Ltd. Device for moving semi-trailers sidewise. 3,120,398, 2–4–64, Cl. 280—423.
Butterworth, Archibald J. Control devices for hydraulically actuated jacking or parking mechanism. 3,128,839, 4–14–64, Cl. 180—1.
Butterworth, Richard, and J. A. Parker, to Armstrong Cork Co. Linear polycarbonates from bis (phenol) alkanoic acid esters. 3,132,118, 5–5–64, Cl. 260—47.
Butterworth, Richard, and J. A. Parker, to Armstrong Cork Co. Nitrile-containing polycarbonate. 3,157,617, 11–17–64, Cl. 260—47.
Butterworth, Robert: *See*—
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Stanton, Arthur J., Anderson, Taylor, Butterworth, and Shawen. 3,144,810.
Butterworth, Robert, to United States of America, Navy. Round-to barrel sealing mechanism. 3,141,377, 7–21–64, Cl. 89—17.
Buttery, Kenneth T.: *See*—
Kirkwood, Lewis E., Bull, Cornell, and Buttery. 3,129,869.
Buttery, Kenneth T., and D. D. Cornell, to KVP Sutherland Paper Co. Paper dispensing carton. 3,128,025, 4–7–64, Cl. 225—48.
Büttner, Artur, to Schnellpressenfabrik Aktiengesellschaft Heidelberg. Apparatus for improving sheet delivery on automatic platen machines. 3,144,825, 8–18–64, Cl. 101—297.
Buttner, Horace J., to Textron Inc. Marine propulsion system. 3,155,071, 11–3–64, Cl. 115—16.
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Buttolph, Doyle D., to Phillips Petroleum Co. Film positioning apparatus. 3,140,573, 7–14–64, Cl. 53—51.
Buttolph, Doyle D., and E. C. Beason, Jr., to Phillips Petroleum Co. Heat sealing-thermoplastic packages. 3,131,521. 5–5–64, Cl. 53—180.
Buttrick, George W., and N. R. Eldred, to Union Carbide Corp. Paper products containing a sulfonated 2-phenoxyethyl acrylate polymer. 3,159,529, 12–1–64, Cl. 162—168.
Butts, Philip G., and C. R. Fingerhood, to Olin Mathieson Chemical Corp. Combustible explosive charges. 3,123,507, 3–3–64, Cl. 149—19.
Butts, Richard R. Anti-colic nursing bottle construction. 3,138,278, 6–23–64, Cl. 215—11.
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Buyalos, Edward J.: *See*—
Gaskins, Ernest, and Buyalos. 3,133,120.
Buyer, Edward, R. H. Edmonds, and J. R. Karp, to United States of America, Navy. Radar signal density analysis circuit. 3,160,883, 12–8–64, Cl. 343—18.
Buys, James F. Bottle holder. 3,122,390, 2–25–64, Cl. 294—31.2.
Buysch, Heinrich, to H. Krantz, Sohne. Web overfeeding device for tentering and drying machines. 3,147,532, 9–8–64, Cl. 26—57.
Buyze, Edwin K., to The Budd Co. Wedge operated, self energizing, fluid cooled disk brake. 3,124,216, 3–10–64, Cl. 188—72.
Buzas, André. Carbamate derivative of 5-hydroxyalkylmalonyl ureas. 3,150,137, 9–22–64, Cl. 260—256.4.
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Buzawa, Michael J., to Bausch & Lomb Inc. Symmetrical Gauss type objective. 3,136,840, 6–9–64, Cl. 88—57.
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Byer, Ellis M., and A. A. Lang, to General Foods Corp. Process of fortifying and stabilizing a citrus fruit juice. 3,117,877, 1–14–64, Cl. 99—192.
Byer, Ellis M., and A. A. Lang. Production of flavor-enhanced grape and tomato concentrates. 3,118,775, 1–21–64, Cl. 99—205.
Byer, Ellis M., and A. A. Lang. Production of flavor-enhanced citrus concentrates. 3,118,776, 1–21–64, Cl. 99—205.
Byerly, Coy M., and E. J. Rhoad, to Hughes Aircraft Co. Space stabilization computer. 3,126,538, 3–24–64, Cl. 343—7.
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Byers, James O., Jr., to The Bendix Corp. Balance ring for pulsating fluid machinery. 3,122,104, 2–25–64, Cl. 103—161.
Byington, Roy E., to United States of America, Army. Moving target indicator canceller. 3,153,786, 10–20–64, Cl. 343—7.7.
Byl, Theodore R., to Code-A-Phone Electronics, Inc. Rotary programming switch. 3,123,682, 3–3–64, Cl. 200—38.
Byland, Hans-Rudolf, and H. Ischer, to Sandoz Ltd. Reactive dyestuffs. 3,133,911, 5–19–64, Cl. 260—154.
Byland, Henry L., to General Binding Corp. Automatic binding machine. 3,124,818, 3–17–64, Cl. 11—1.
Bylander, Ernest G., and W. R. Runyan, to Texas Instruments Inc. Semiconductor device and method of manufacture. 3,138,495, 6–23–64, Cl. 148—187.
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Byler, William H., A. K. Schwerin, deceased (J. Schwerin, administratrix), and F. R. Hays; said Byler and said Hays assors. to U.S. Radium Corp. Color radiographic film. 3,121,232, 2–11–64, Cl. 96—68.
Byles, Theodore A., to Motorola, Inc. Generator field winding regulation with direct thermistor control of the field winding control circuit. 3,152,298, 10–6–64, Cl. 322—73.
Bylo, John J. Structure for loading and unloading cargo. 3,139,197, 6–30–64, Cl. 214—12.
Byloff, Robert C., to The Garret Corp. Method of controlling the flow of heat transfer fluid. 3,122,199, 2–25–64, Cl. 165—2.
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Byrne, Joe L., and J. L. Dooley, to McCulloch Corp. Dynamic seal for air suspension vehicle. 3,159,228, 12–1–64, Cl. 180—7.
Byrne, John F., to Minneapolis-Honeywell Regulator Co. Photographic composition. 3,123,474, 3–3–64, Cl. 96—108.
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Byrne, Joseph F., to Westinghouse Air Brake Co. Random access switching system. 3,117,303, 1–7–64, Cl. 340—147.
Byrne, Joseph J., and S. F. Adler, to American Cyanamid Co. Gel oxide-aluminohydride compositions. 3,146,209, 8–25–64, Cl. 252—188.
Byrne, Mary B. Combined hat and camera support. 3,139,014, 6–30–64, Cl. 95—12.
Byrne, Robert M., to Goodyear Aerospace Corp. Automatic radar display centering system. 3,155,870, 11–3–64, Cl. 315—18.
Byrne, William H., and J. H. Sadler. Method and apparatus for generating combustible gas. 3,124,435, 3–10–64, Cl. 48—105.
Byrnes, Dennis W. Feed means. 3,126,871, 3–31–64, Cl. 119—52.
Byrnes, Dennis W. Manure remover. 3,134,358, 5–26–64, Cl. 119—22.
Byrnes, Dennis W. Egg collecting and counting means. 3,134,359, 5–26–64, Cl. 119—48.
Byrnes, Richard J., J. T. Pence, and B. O. Rae, to Cutler-Hammer, Inc. Code responsive systems. 3,152,681, 10–13–64, Cl. 198—38.
Byrnes, Thomas E. Wheeled toy with wheel-actuated devices. 3,119,199, 1–28–64, Cl. 46—204.
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Bystricky, Joseph C., F. G. Schweisthal, and E. G. Stock, to Stewart-Warner Corp. Lubricating device. 3,156,320, 11–10–64, Cl. 184—29.

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O'Byrne, Brendan. 3,116,534.
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Bywater, William G., and R. W. Price, to S. B. Penick and Co. Synergized insecticidal compositions. 3,134,712, 5–26–64, Cl. 167—30.

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Evans, Fraser M. 3,124,305.
Evans, Fraser M. 3,161,134.
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Hutcheon, Keith F. 3,161,133.
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Seilly, Alex H. 3,124,694.

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C-E-I-R, Inc.: *See*—
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CTS of Canada, Ltd.: *See*—
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Caballero, Esperanza. Infant's harness. 3,136,581, 6–9–64, Cl. 297—384.

Cabaness, William R., Jr., to Jefferson Chemical Co., Inc. Method for preparing polyolefins of reduced ash content. 3,138,579, 6–23–64, Cl. 260—94.9.

Cabaniss, Edward H., to United States of America, Navy. Breakaway circuit for radar tracking, autopilot operated aircraft. 3,137,463. 6–16–64, Cl. 244—77.

Cabasso, Victor J., H. R. Cox, A. W. Moyer, and M. Roca-Garcia, to American Cyanamid Co. Suckling rodent and chick embryo attenuated MEF—1 Polio virus and the production thereof. 3,125,489, 3–17–64, Cl. 167—78.

Cabbage, John T.: *See*—
Cox, Clyde M., and Cabbage. 3,119,445.

Cabbage, John T., to Phillips Petroleum Co. Method of reducing sulfur content of residual products. 3,119,764, 1–28–64, Cl. 208—208.

Cabbage, John T., to Phillips Petroleum Co. Catalytic hydrogenation of benzene. 3,146,187, 8–25–64, Cl. 208—57.

Cabbage, John T., to Phillips Petroleum Co. Combined stripping and flashing operation. 3,160,582, 12–8–64, Cl. 208—361.

Cabell, Douglas N., to Ronson Corp. Juice-extracting device. 3,159,193, 12–1–64, Cl. 146—3.

Cabin Crafts, Inc.: *See*—
Bryant, Clifford A. 3,155.059.
Bryant, Clifford A., Hackney, and Payne. 3,160,125.
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Cable Belt Ltd.: *See*—
Adamson, James M. 3,162,295.

Cable Covers Ltd.: *See*—
Rhodes, Brian. 3,137,971.

Cable, Elvin K., to Ledex, Inc. Diode rectifier with overvoltage protection. 3,118,102, 1–14–64, Cl. 321—11.

Cabot Corp.: *See*—
Belknap, Louis S., and Carpenter. 3,145,083.
Berstein, Gregor, and Opie. 3,121,017.
Boonstra, Bram B. S. T. 3,133,894.
Jordan, Merrill E., Cole, Burbine, and Petterson. 3,140,-192.
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Stokes, Charles A., Kistiakowsky, and Engelson. 3,130,008.

Cabral Motors, Inc.: *See*—
Hummel, Karl H., Jr. 3,153,185.

Caddock, Richard E.: *See*—
Hardison, Wilbur T., Mathison, Caddock, and Bourns. Re. 25,674.

Caddock, Richard E., and M. E. Bourns; said Caddock assor. to Bourns, Inc. Potentiometers. 3,124,779, 3–10–64, Cl. 338—180.

Caddock, Richard E., and M. E. Bourns, to Bourns, Inc. Adjustment-indicating variable resistor. 3,134,086, 5–19–64, Cl. 338—196.

Caddoo, William H., to Continental Can Co., Inc. Book cover and machine and method for making same. 3,145,033. 8–18–64, Cl. 281—29.

Cade, Phillip J., to Electronics Corp. of America. Electrical connector apparatus. 3,10,425, 7–7–64, Cl. 317—101.

Cadillac Gage Co.: *See*—
Bidlack, Jerald D. 3,142,230.
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Cadillac Products, Inc.: *See*—
Williams, Robert J. 3,127,084.

Cadiou, Jean, to Andre Citroen, Societe Anonyme. Swinging arm mounting of independent wheel suspension system. 3,134,605, 5–26–64, Cl. 280—96.1.

Cadiou, Jean, to Andre Citroen, Societe Anonyme. Regulator device for hydraulic motors. 3,138,067, 6–23–64, Cl. 91—175.

Cadiou, Jean, to Andre Citroen Societe Anonyme. Drive connection for automotive vehicle. 3,152,675, 10–13–64, Cl. 192—3.2.

Cadiou, Jean, to Andre Citroen Societe Anonyme. Method of and device for the regulation of hydraulic motors. 3,156,-159, 11–10–64, Cl. 91—175.

Cadiou, Jean, to Societe Anonyme Andre Citroen. Automatic regulating devices for hydraulic barrel-type pumps or motors. 3,157,130, 11–17–64, Cl. 103—162.

Cadman, Corlis D., to The Parker Pen Co. Self aligning spinning tool. 3,132,615, 5–12–64, Cl. 113—32.

Cadmus, Eugene L., and L. Lipschitz, to Wood Ridge Chemical Corp. Process for the production of the red oxide of mercury. 3,149,917, 9–22–64, Cl. 23—183.

Cadmus, Lamont A.: *See*—
Ordorica, Miguel A., and Cadmus. 3,162,262.

Cadmus, Lamont A., to Willys Motors, Inc. Pressurized wheel and brake assembly. 3,144,099, 8–11–64, Cl. 188—2.

Cadmus, Lamont A., and A. C. Sampietro, to Willys Motors, Inc. Driven swinging axle assemblies with steerable wheels. 3,155,186, 11–3–64, Cl. 180—43.

Cadorette, George, to Draper Corp. Replenishing mechanism for looms. 3,153,431, 10–20–64, Cl. 139—257.

Cadorette, John W.: *See*—
Ford, Stephen H., Jr., and Cadorette. 3,152,475.

Cadotte, John E., to Wood Conversion Co. Production of resin-bonded water-laid boards. 3,122,468, 2–25–64, Cl. 162—165.

Cadotte, John E., to Wood Conversion Co. Production of sag-resistant mineral fiberboard. 3,146,156, 8–25–64, Cl. 162—135.

Cadotte, Raymond R. Lunch box structure. 3,139,179, 6–30–64, Cl. 206—4.

Cadovius, Poul. Assembling joint for assembling framework comprising tubular rods, and framework with such assembling joints. 3,155,405, 11–3–64, Cl. 287—54.

Cadwallader, Alvin A., to Teleflex Inc. Remote control apparatus. 3,126,757, 3–31–64, Cl. 74—501.

Cadwallader, Alvin A., to Teleflex Inc. Apparatus for making a flexible conduit of helically wound wires. 3,138,511, 6–23–64, Cl. 156—431.

Cadwallader, Edgar A., to United States of America, Navy. Flare composition. 3,152,935, 10–13–64, Cl. 149—19.

Cadwell, Carl L.: *See*—
Silliman, Sheldon D., and Cadwell. 3,156,456.

Cadwell, Gilbert C., to Rohr Corp. High energy tube expander. 3,127,923, 4–7–64, Cl. 153—79.

Cadwell, Wilfred C., R. A. Oberlander, and D. J. Wright, to Caterpillar Tractor Co. Track roller with a replaceable rim. 3,154,958, 11–3–64, Cl. 74—230.3.

Cady, Charles E.: *See*—
Kemeny, Julius, Parsons, Cady, and Jones. 3,155,893.

Cady, Joseph H., to S. D. Warren Co. Electrophotographic recording paper and method of making. 3,160,503, 12–8–64, Cl. 96—1.

Cady, Robert S.: *See*—
Blake, Charles B., and Cady. Re. 25,526.

Caferro, Edward M. Duplex food extrusion. 3,142,266, 7–28–64, Cl. 107—1.

Caffrey, James M., Jr., to Texaco Inc. Process for isomerization of olefinic hydrocarbons. 3,158,559, 11–24–64, Cl. 204—162.

Caffrey, James M., Jr., to Texaco Inc. Process for isomerization of olefinic hydrocarbons. 3,158,560, 11–24–64, Cl. 204—162.

Cafolla, Constantine F., to Seneca Falls Machine Co. Support. 3,145,598, 8–25–64, Cl. 82—14.

Cafulli, Annamaria, and E. Moriondo. Apparatus simulating the travel of a vehicle on a road. 3,119,190, 1–28–64, Cl. 35—11.

Cage, Albert G., Jr. Repositionable connector plug with position eliminator means. 3,139,492, 6–30–64, Cl. 200—11.

Cage, Conrad, Jr. Pill dispenser. 3,162.301, 12–22–64, Cl. 206—42.

Cage, Joseph F., Jr., and D. B. Sherer, to United States of America, Atomic Energy Commission. Modular core units for a neutronic reactor. 3,128,234, 4–7–64, Cl. 176—43.
Cagen, George, to Roanwell Corp. Clamping means for an article-supporting boom. 3,128,352, 4–7–64, Cl. 179—156.
Caggianello, Joseph J.: *See*—
Milewski, Milton, and Caggianello. 3,120,725.
Caggiano, Vincent G., Jr. Cultivator. 3,117,632, 1–14–64, Cl. 172—5.
Cagin, Raymond, P. Chemin, J. Millot, and P. Mulot, to Commissariat a' l' Energie Atomique. Reactor fuel handling hood. 3,143,226, 8–4–64, Cl. 214—18.
Cagle, Toby T. Pivoted spot type disk brake. 3,140,759, 7–14–64, Cl. 188—73.
Caglioti, Luciano: *See*—
Camerino, Bruno, Caglioti, and Cainelli. 3,155,667.
Caglioti, Luciano, and G. Cainelli, to Societa' Farmaceutici Italia. Process of preparing 4-hydroxy-3-keto-Δ4-steroids. 3,144,470, 8–11–64, Cl. 260—397.4.
Caha, Oldřich: *See*—
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Cahan, Alvin M. Fireplace tongs. 3,124,383, 3–10–64, Cl. 294—11.
Cahan, Boris D., to The Electric Storage Battery Co. Electric battery. Re. 25,608, 6–30–64, Cl. 136—26.
Cahen, Max. Methods and devices for examining the flatness or the exactly concentric cylinder-shape of a plane or cylindric surface, e.g. the active surface of printing-forms and/or of the supporting member thereof. 3,162,040, 12–22–64, Cl. 73—104.
Cahill, Bernard S., to National Rejectors, Inc. Currency detectors. 3,138,738, 6–23–64, Cl. 315—168.
Cahill, John J., Disposable hand care glove. 3,116,732, 1–7–64, Cl. 128—260.
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Smith, Eugene. 3,158,112.
Cahill, Robert V.: *See*—
Barbour, Donald R., and Cahill. 3,152,313.
Cahlik, Jim C.: *See*—
Amberg, Stephan W. and W. E., and Cahlik. 3,120,324.
Cahn, Robert P., and R. H. Johnston, to Esso Research and Engineering Co. Combined steam cracker and butene dehydrogenation light ends. 3,154,482, 10–27–64, Cl. 208—101.
Cail, Roland A.: *See*—
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Caillat, Roger, and R. Darras, to Commissariat a l'Energie Atomique. Process for preventing oxidation of nuclear reactor coolant channel magnesium sheaths. 3,119,745, 1–28–64, Cl. 176—38.
Caille, Eugene V. Card clothing. 3,118,185, 1–21–64, Cl. 19—114
Caillet, Rene. Rigid roll-up screen, particularly for use as a hatch-cover. 3,123,129, 3–3–64, Cl. 160—41.
Cailliot, Serge. Endless tape winding cartridge. 3,140,837, 7–14–64, Cl. 242—55.19.
Cain, Earl S., Jr., A. Bosco, E. L. Kumm, and G. L. Green, to The Garrett Corp. Fluid pressure operated turbine. 3,147,951, 9–8–64, Cl. 253—2.
Cain, Francis E. Car top boat loader. 3,141,565, 7–21–64, Cl. 214—450.
Cain, James F., M. H. Grabosky, and W. D. Gurdack, to Bayuk Cigars Inc. Package handling machine. 3,126,106, 3–24–64, Cl. 219—6.
Caine, Raymond A.: *See*—
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Camerino, Bruno, Caglioti, and Cainelli. 3,155,667.
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Caipen, Robert A., to Packaging Corp. of America. Heat reaction method for separation of paper sheets. 3,145,162, 8–18–64, Cl. 209—11.
Cairelli, Carmen P., to Richardson-Merrell Inc. Dispensing apparatus for portable pressurized containers. 3,139,218, 6–30–64, Cl. 222—70.
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Cairns, Theodore L., and C. S. Cleaver, to E. I. du Pont de Nemours and Co. Crosslinking of polymers with nitrogen fluorides. 3,162,623, 12–22–64, Cl. 260—87.7.
Cais, Michael, ¾ to Technion Research & Development Foundation. Cyclopentadienyl metal compounds. 3,138,625, 6–23–64, Cl. 260—429.
Cal-Crown Corp.: *See*—
Lobdell, Harry R. 3,138,076.
Cal Mfg. Co.: *See*—
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Cal-Gard, Inc.: *See*—
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Cala, Charles F., to Bausch & Lomb Inc. Method for making fused multifocal lenses. 3,130,029, 4–21–64, Cl. 65—39.
Calabrese, George V., to Lumenite Electronic Co. Electric clock control. 3,136,115, 6–9–64, Cl. 58—26.
Calabrese, William L., to Bebco Experimental & Mfg. Co. Scraper blade. 3,123,923, 3–10–64, Cl. 37—180.
Calabro, Frank A.: *See*—
Stacy, Stanley L., Flower, and Calabro. 3,136,418.
Calaceto, Ralph R., to Airetron Engineering Corp. Gas scrubber. 3,145,239, 8–18–64, Cl. 261—112.
Calaora, Albert: *See*—
Gavreau, Vladimir, Calaora, and Miane. 3,118,096.
Gavreau, Vladimir, Calaora, and Miane. 3,159,778.
Calbert, Edward S., to Airetron Research Development Corp. Plant position indicating apparatus. 3,125,740, 3–17–64, Cl. 343—10.
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Parker, Harold N. 3,120,580.
Parker, Harold N. 3,122,713.
Calder, Caesar A. Garment hangers and covers therefor. 3,155,296, 11–3–64, Cl. 223—98.
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Sintes, Julio F., and Calderon. 3,149,800.
Calderone, Arthur J. Spray saddle. 3,136,522, 6–9–64, Cl. 248—318.
Calderwood, Donald A., and J. A. Szlachetka, to Armstrong & White. Molding apparatus for grinding wheels. 3,135,-999, 6–9–64, Cl. 18—36.
Caldo, Cornelio, to Montecatini Società Generale per l'Industria Mineraria e Chimica. Stabilized crystalline polymeric olefins. 3,143,523, 8–4–64, Cl. 260—45.8.
Caldo, Cornelio, to Montecatini Società Generale per l'Industria Mineraria e Chimica. Purification of solid olefinic polymers. 3,153,641, 10–20–64, Cl. 260—93.7.
Caldwell, Albert G.: *See*—
Barrett, Paul A., Caldwell, and Walls. 3,142,679.
Caldwell, Andrew H., to General Electric Co. Electrical cabinet structure. 3,120,412, 2–4–64, Cl. 312—320.
Caldwell, Blake M., to Jet Research Center, Inc. Apparatus for testing explosive devices by stereoscopic photography. 3,121,322, 2–18–64, Cl. 73—35.
Caldwell, Blake M., to Jet Research Center, Inc. Shaped explosive device and type metal liner for the cavity thereof. 3,147,707, 9–8–64, Cl. 102—24.
Caldwell, Deane B., and H. K. Herr, to Reynolds Metals Co. Machine with guide means for product. 3,149,516, 9–22–64, Cl. 83—97.
Caldwell, Donald B., J. N. Brown, and E. G. Lavigne, to Minnesota Mining and Mfg. Co. Vibration damping structures. 3,160,549, 12–8–64, Cl. 161—161.
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Caldwell, Frederick C., to E. L. Caldwell & Sons, Inc. Machine for cutting and shredding above-ground plant growth and for tilling the soil and shredding plant roots. 3,133,598, 5–19–64, Cl. 172—51.
Caldwell, Herbert S., Jr., and M. J. Spendlove, to United States of America, Interior. Process and apparatus for selective condensation of metals. 3,136,627, 6–9–64, Cl. 75—63.
Caldwell, John, to The Englis Electric Co. Ltd. Steam power plants. 3,150,267, 9–22–64, Cl. 290—2.
Caldwell, John B., to The A. G. Stafford Co. Adhesive applicator for roofing paper. 3,135,430, 6–2–64, Cl. 222—178.
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Jackson, Winston J., Jr., Caldwell, and Hill. 3,143,535.
Caldwell, John R., to Eastman Kodak Co. Resinous compositions comprising mixtures of polyesters containing quaternized amine groups and epoxy resins. 3,128,265, 4–7–64, Cl. 260—45.5.
Caldwell, John R., to Eastman Kodak Co. Polymeric cyclopentadiene coatings on polyethylene and other polymeric hydrocarbons. 3,143,422, 8–4–64, Cl. 96—87.
Caldwell, John R., to Eastman Kodak Co. Acyloxyneopentyl and acylyoxycyclobutane phosphate partial esters. 3,153,-080, 10–13–64, Cl. 260—461.
Caldwell, John R., and R. Gilkey, to Eastman Kodak Co. Linear polyesters of 1,4-cyclohexanedicarboxylic acid and aromatic diols. 3,143,526, 8–4–64, Cl. 260—47.
Caldwell, John R., and J. E. Poe, to Eastman Kodak Co. Method for preparing alicyclic diamines. 3,143,570, 8–4–64, Cl. 260—563.
Caldwell, John R., and R. Gilkey, to Eastman Kodak Co. Antistatic, soil-resistant coatings. 3,152,920, 10–13–64, Cl. 117—138.8.
Caldwell, John R., and R. Gilkey, to Eastman Kodak Co. Nitrogen-containing linear polyesters from aminomethyl cyclohexanol and dicarboxylic acids. 3,153,017, 10–13–64, Cl. 260—78.
Caldwell, John R., and E. H. Hill, to Eastman Kodak Co. Polyamide mordant for dyeing synthetic textile fibers. 3,161,608, 12–15–64, Cl. 260—13.
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Caldwell, Lyle, to National Petroleum Corp. Ltd. Apparatus for providing ducts through casing in a well. 3,120,268, 2–4–64, Cl. 166—100.
Caldwell, Marion J., to Moorman Mfg. Co. Animal feeds containing aspirin. 3,147,120, 9–1–64, Cl. 99—2.

Caldwell, Richard L., to Socony Mobil Oil Co., Inc. Radioactive fluid flow measuring apparatus with means for injecting a marker material between the source and detector. 3,156,818, 11–10–64, Cl. 250—43.5.

Caldwell, Richard L., and R. F. Sippel, to Socony Mobil Oil Co., Inc. Density measurements of borehole fluids using axially spaced radioactive source and detector means. 3,123,709, 3–3–64, Cl. 250—43.5.

Caldwell, Samuel C.: *See*—
Peaslee, Lawrence R., and Caldwell. 3,148,324.

Caldwell, Verdie H. Well perforation cleaning tool. 3,163,-227, 12–29–64, Cl. 166—162.

Caldwell, Washington J., to Eltra Corp. Commutator assembling machine. 3,130,486, 4–28–64, Cl. 29—205.

Caldwell, Wyche D., to Whittaker Corp. Electrical measuring instrument with digital indication. 3,153,193, 10–13–64, Cl. 324—99.

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Calfee, John D., to Monsanto Chemical Co. Catalyst for the polymerization of olefins containing the product of a titanium halide and an organo-aluminum compound mixed with a lower alkyl halide solution of aluminum chloride. 3,131,171, 4–28–64, Cl. 260—93.5.

Calfee, John D., to Monsanto Co. Ethylene/vinyloxyethanol interpolymers. 3,141,908, 7–21–64, Cl. 260—615.

Calfee, John D., to Monsanto Co. Aluminum chlorofluoride polymerization catalysts. 3,158,593, 11–24–64, Cl. 260—94.9.

Calfee, John D., and O. de S. Deex, to Monsanto Co. Carboxylation with CO_2 in the presence of AlCl and Al or Zn. 3,138,626, 6–23–64, Cl. 260—448.

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Goldwater, Robert, and Calhoun. Re. 25,600.

Calhoun, Fredrick L., to Industrial Dynamics Co., Ltd. Control apparatus. 3,128,910, 4–14–64, Cl. 222—20.

Calhoun, Fredrick L., to Industrial Dynamics Co., Ltd. Inspection apparatus. 3,133 638, 5–19–64, Cl. 209—82.

Calhoun, Fredrick L., D. D. Williams, and J. H. Wyman, to Geo. J. Meyer Mfg. Co. Bottle inspection system. 3,133,-640. 5–19–64, Cl. 209—111.5.

Calhoun, George M.: *See*—
Hewett, William A., and Calhoun. 3,156 649.

Calhoun, George M., to Shell Oil Co. Liquid lubricant composition. 3,161,596, 12–15–64, Cl. 252—46.6.

Calhoun, Reed F.: *See*—
Britton, Jean M., and Calhoun. 3,129,890.

Calhoun, Thomas S., to Minneapolis-Honeywell Regulator Co. Control apparatus. 3,142,170, 7–28–64, Cl. 73—15.

Calhoun, Thomas S., to Honeywell Inc. Condition responsive apparatus with visual and audible readout. 3,163,-819, 12–29–64, Cl. 324—99.

Califano, Paul J. Underwater spear gun. 3,153,875, 10–27–64, Cl. 43—6.

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California Institute Research Foundation: *See*—
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Kiceniuk, Taras. 3,118,639.
Wheeler, Harry L., Jr. 3,123,446.

California Pellet Mill Co.: *See*—
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Camerino, Bruno, B. Patelli, and R. Sciaky, to Societa' Farmaceutici Italia. Process for the manufacture of 4-hydroxy-3-keto-Δ4-steroids. 3,145,201, 8–18–64, Cl. 260—239.55.

Camerino, Bruno, L. Caglioti, and G. Cainelli, to Societa Farmaceutici Italia. Process for the preparation of 9-hydroxyergolines and products obtained. 3,155,667, 11–3–64, Cl. 260—285.5.

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Camm, John C., to Avco Corp. High speed switching devices. 3,122,080, 2–25–64, Cl. 95—55.

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Campbell, David D., J. D. Leslie, and J. H. Wernig, to General Motors Corp. Windshield mounting. 3,155,422, 11–3–64, Cl. 296—93.

Campbell, David S., and E. H. Natschke, to Cardwell Westinghouse Co. High capacity draft gear. 3,150,782, 9–29–64, Cl. 213—43.

Campbell, David S., and E. H. Natschke, to Cardwell Westinghouse Co. Hydraulic cushion. 3,150,783, 9–29–64, Cl. 213—43.

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Campbell, Ernest C., Jr., and W. L. Short. Paint containing cap for flexible tubes. 3,131,833, 5–5–64, Cl. 222—143.

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Campbell, George T. R., N. V. Laskey, and T. B. Hemsley, to International MacGregor Organization (I.M.G.O.). Conveyor apparatus for the unloading of bulk cargoes from ships. 3,143,225, 8–4–64, Cl. 214—15.

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Campbell, Lorne A., and D. K. Smith, to Central Mortgage and Housing Corp. Method and system for the treatment of sewage. 3,135,686, 6–2–64, Cl. 210—7.
Campbell, Mark, to West Virginia Pulp and Paper Co. Apparatus for coating web material. 3,143,438, 8–4–64, Cl. 118—104.
Campbell, Melvin L., to Collins Radio Co. Shaft positioning device. 3,130,594, 4–28–64, Cl. 74—84.
Campbell, Paul E., to Phillips Petroleum Co. Heat exchange apparatus for extruded products. 3,116,787, 1–7–64, Cl. 165—90.
Campbell Pharmaceuticals, Inc.: *See*—
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Campbell Products Co.: *See*—
Campbell, Albert B. 3,134,128.
Campbell, Ralph A., T. Ongaro, and G. H. Thomas, to International Research and Development Corp. Voltage generating seismic vibratory pickup device. 3,157,852, 11–17–64, Cl. 340—17.
Campbell, Richard D., to Westinghouse Air Brake Co. Track fullness system. 3,155,350, 11–3–64, Cl. 246—122.
Campbell, Richard L., to American Radiator & Standard Sanitary Corp. Thermostatic flow control valve. 3,118,648, 1–21–64, Cl. 251—77.
Campbell, Richard L., and T. E. Noakes, to American Radiator & Standard Sanitary Corp. Fluid flow control means. 3,141,477, 7–21–64, Cl. 138—45.
Campbell, Robert E.: *See*—
Billeter, Henry R., Campbell, and Tramblie. 3,145,064.
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Parker, Kenneth O., and Campbell. 3,145,768.
Campbell, Robert R., to United States of America, Navy. Detection of targets in clutter. 3,149,333, 9–15–64, Cl. 343—17.1.
Campbell, Robert R., to United States of America, Navy. Target simulator for pulse Doppler radar. 3,162,854, 12–22–64, Cl. 343—17.7.
Campbell, Roderick D., and S. K. Herbets. Golf training devices. 3.124,806, 3–17–64, Cl. 2—160.
Campbell, Rodney B., to M. R. Maben, trustee. Fluid pressure responsive seal assembly. 3,132,869, 5–12–64, Cl. 277—171.
Campbell, Ronald H., to United Kingdom Atomic Energy Authority. Leak detection apparatus for gas cooled reactor. 3,145,148, 8–18–64, Cl. 176—19.
Campbell, Ronald H., to United Kingdom Atomic Energy Commission. Reactor shut-down apparatus using neutron-absorbing balls. 3,147,188, 9–1–64, Cl. 176—35.
Campbell, Ronald H., to United Kingdom Atomic Energy Authority. Apparatus for trimming the position of a control rod. 3,163,581, 12–29–64, Cl. 176—24.
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Campbell, Trevor G., and R. H. Hunger, to Caterpillar Tractor Co. Loader bucket with ejector. 3,122,248, 2–25–64, Cl. 214—146.
Campbell, Vernon R., to L & L Mfg. Co. Metal seal fitting and method. 3,148,901, 9–15–64, Cl. 285—212.
Campbell, Wanda L. Acetylmethyl-salicylate for pain relief. 3,119,739, 1–28–64, Cl. 167—58.
Campbell, William G.: *See*—
Hurst, George H., Jr., and Campbell. Re. 25,561.
Hurst, George H., Jr., and Campbell. 3,157,059.
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Sissnewine, Norman, Leviton, and Campen. 3,149,491.
Campfield, Wayne W., to General Foods Corp. Process for making a puffable half product. 3,150,978, 9–29–64, Cl. 99—1.
Campion, Francis E., to Jersey Production Research Co. In situ combustion process. 3,126,954, 3–31–64, Cl. 166—11.
Campione, Alfred A., and H. A. Tobonsky, to United States of America, Army. Bore evacuator for cannons. 3,118,342, 1–21–64, Cl. 89—1.
Campman, Arthur R.: *See*—
Koppelman, Edward, and Campman. 3,132,671.
Koppelman, Edward, and Campman. 3,139,117.
Campos, Emil, to Plastic Plants, Inc. Plant accessory. 3,142,935, 8–4–64, Cl. 47—48.5.
Camps-Campins, Michael F.: *See*—
Hollander, Milton B., and Camps-Campins. 3,121,948.
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Camras, Marvin, to IIT Research Institute. Tape cartridge selector transducing machine. 3,134,550, 5–26–64, Cl. 242—55.13.
Camras, Marvin, to IIT Research Institute. Method of making a magnetic head. 3,145,452, 8–25–64, Cl. 29—155.5.
Camras, Marvin, to IIT Research Institute. Method and means for producing magnetic record members. 3,158,670, 11–24–64, Cl. 264—293.
Camras, Marvin, to IIT Research Institute. Stereophonic system. 3,158,695, 11–24–64, Cl. 179—100.1.
Canaan, Richard A. Bowling shoe conditioner. 3,144,675, 8–18–64, Cl. 15—311.
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Mustard, James F. 3,156,616.
Canada, Her Majesty The Queen in right of, as represented by the Minister of Mines and Technical Surveys: *See*—
Contractor, Gustad P., and Buhr. 3,119,159.
Mitchell, Earland R., and Friedrich. 3,117,537.
Canada, Her Majesty The Queen in right of, as represented by the Minister of National Defence: *See*—
Bohn, Erik V. 3,131,296.
Burger, Francis J. P. J., and Cheseldine. 3,138,746.
Hyne, Graham E. 3,119,189.
Magson, John. 3,136,208.
Canada, Her Majesty The Queen in the right of, as represented by the Postmaster General: *See*—
Levy, Maurice M., and Arnoti. 3,129,824.
Tipton, Archibald O. B. 3,153,477.
Canada Iron Foundries, Ltd.: *See*—
Delisle, Alexandre. 3,124,857.
Gallacher, Andrew F. 3,152,220.
Stewart, John K. 3,160,114.
Canada Packers Ltd.: *See*—
Cross, Charles K., Kairys, and Attwell. 3,128,268.
Canada Permanent Toronto General Trust Co.: *See*—
Craig, James W., Hodnett, and Lathe. 3,138,469.
Canada Rice Mills Co.: *See*—
Gravel, Jean J. O. 3,125,043.
Canada Rice Mills Ltd., The: *See*—
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Canaday, Roscoe H., and A. E. Glandon, to United States of America, Air Force. Test apparatus for measuring tracking error between a synchro transmitter and receiver. 3,131,350, 4–28–64, Cl. 324—158.
Canadian Celanese Ltd.: *See*—
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Canadian Controllers, Ltd.: *See*—
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Canadian Copper Refiners Ltd.: *See*—
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Tattle, William I. 3,119,599.
Canadian Industries Ltd.: *See*—
Brockman, Francis J., Murdock, and Nelan. 3,139,411.
Forrest, David B., and Smelko. 3,154,427.
Goldstein, David J., and Grimley. 3,143,880.
Turner, John M. 3,117,947.
Canadian Ingersoll-Rand Co., Ltd.: *See*—
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Braatz, Willi. 3,120,137.
MacSween, George A. 3,155,180.
Canadian International Paper Co.: *See*—
Cote, Raymond A. 3,155,273.
Girard, Christian F. 3,138,480.
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Canadian Marconi Co. : *See*—
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Canadian Patents and Development Ltd. : *See*—
Helava, Uuno V. 3,116,555.
Klein, George J. 3,144,215.
Thompson, Donald W. 3,136,616.
Canadian Safety Fuse Co. Ltd. : *See*—
Hicks, Mervyn A., and Mann. 3,125,024.
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Canadian Technical Tape Ltd. : *See*—
Bailin Moses M. 3,127,284.
Canadian Westinghouse Co., Ltd. : *See*—
Cheverton, John S., and Brouwer. Re. 25,581.
Collins, Peter J., and Campbell. 3,163,582.
McKeough, Daniel H., and Franz. 3,129,309.
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Canan, Walter T. Oral examiner. 3,162,191, 12–22–64, Cl. 128—15.
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Bretch, Edward. 3,140,437.
Canazzi, Henry D. Planing type speed boat hull. 3,148,652, 9–15–64, Cl. 114—66.5.
Cancrinus, Hendrik, to Inpower Works (Proprietary) Ltd. Inertia fluid torque transmitter. 3,126,764, 3–31–64, Cl. 74—752.
Candela, Giovan B., to Formsprag Co. Sprag clutch and energizing means therefor. 3,124,228, 3–10–64, Cl. 192—45.1.
Candelise, Alfred : *See*—
Rademacher, Gustav F., and Candelise. 3,159,032.
Candelise, Alfred, to General Motors Corp. Pressurized fluid distribution and timing system. 3,141,448, 7–21–64, Cl. 123—26.
Candy, Robert W., to Telephone Cables Ltd. Method of making a thermoplastic joint. 3,133,846, 5–19–64, Cl. 156—49.
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Hunt, James L., Klesel, and Farintosh. 3,133,513.
Canevari, Gerard P., to Esso Research and Engineering Co. Suppression of evaporation of hydrocarbon liquids. 3,146,060, 8–25–64, Cl. 21—60.5.
Canfield, Allen B., and T. Lampert, to Bartelt Engineering Co., Inc. Dispensing device. 3,117,698, 1–14–64, Cl. 222—185.
Canfield, Carl R., Jr., to Borg-Warner Corp. Fuel injection control mechanism. 3,126,879, 3–31–64, Cl. 123—140.
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Reahard, Daniel F., Cowles, and Champ. 3,117,352.
Canfield, Sheldon A. : *See*—
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Canham, Eugene F. Self-extensible shelf insert. 3,124,252. 3–10–64, Cl. 211—43.
Cann, Arthur F., to Stevens-Arnold, Inc. Control circuits for electric motors. 3,161,454, 12–15–64, Cl. 346—32.
Cann, Arthur F., to Stevens-Arnold, Inc. Electromagnetic switches. 3,161,785, 12–15–64, Cl. 307—132.
Cann, Leopold, to Thompson Ramo Wooldridge Inc. Electroplating method and apparatus. 3,132,080, 5–5–64, Cl. 204—27.
Cannell, Lawrence G., and G. Holzman, to Shell Oil Co. Alkylation process. 3,160,674, 12–8–64, Cl. 260—683.59.
Canner, Herman M. Unit die assembly. 3,134,142, 5–26–64, Cl. 18—42.
Canning, Maurice D., to Western Electric Co., Inc. Method of and device for indicating a predetermined pressure exerted by a fastener. 3,153,974, 10–27–64, Cl. 85—62.
Canning, Richard H., and J. E. Cordner, to Cannon Electric Co. Force measuring device. 3,129,584, 4–21–64, Cl. 73—141.
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Canno, Leonard E., to Equitable Paper Bag Co., Inc. Reenforced shopping bag. 3,129,848, 4–21–64, Cl. 229—55.
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Cannon, George E., and F. A. Smith, to Jersey Production Research Co. Method of regaining lost circulation. 3,158,210, 11–24–64, Cl. 175—72.
Cannon, Joseph P. Hemostatic device for anal surgery. 3,154,077, 10–27–64, Cl. 128—325.
Cannon, Kenneth F., Jr., to United States of America, Navy. Marker buoy release mechanism. 3,121,239, 2–18–64, Cl. 9—9.
Cannon, Kenneth F., Jr., to United States of America, Navy. Recovery system for underwater objects. 3,130,999, 4–28–64, Cl. 294—66.
Cannon, Madison M., G. M. Dick, and S. M. Salomon, to Bird Machine Co. Screening device. 3,149,067, 9–15–64, Cl. 209—273.
Cannon, Peter, to General Electric Co. Method for and product produced by the introduction of aluminum atoms into the surface of diamond crystals. 3,134,739, 5–26–64, Cl. 252—503.
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Yamaji, Keizo. 3,160,699.
Canova, George M., and K. W. Clarke, to Datex Corp. Extensometer. 3,139,236, 6–30–64, Cl. 235—103.5.
Canova, George M., and K. W. Clarke, to Datex Corp. Speed control system. 3,151,507, 10–6–64, Cl. 80—32.
Cantabene, Andrew J., and R. C. Pocock, to The Bendix Corp. Laminated baffle ring and method of making same. 3,159,524, 12–1–64, Cl. 161—58.
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Mallory, Edwin E., and Cantarutti. 3,125,481.
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Canterino, Peter J., to Phillips Petroleum Co. Graft copolymer of a mixture of alkyl acrylates on polypropylene and process of preparation. 3,162,697, 12–22–64, Cl. 260—878.
Canterino, Peter J., and L. T. Smith, to Phillips Petroleum Co. Production of said olefin polymers utilizing a catalyst system containing elemental sulfur. 3,147,239, 9–1–64, Cl. 260—93.7.
Can-Tex Industries, Inc. : *See*—
Waddy, Luther. 3,126,107.
Cantieri, William F., and J. R. Thayer, to Diamond Power Specialty Corp. Blower type cleaning for heat exchanging apparatus. 3,137,278, 6–16–64, Cl. 122—392.
Cantieri, William F., and J. R. Thayer, to Diamond Power Specialty Corp. Blower-type cleaning for heat exchanging apparatus. 3,163,154, 12–29–64, Cl. 122—392.
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Cantoni, Giuseppe, G. Cicottino, and L. Chiesa ; said Chiesa assor. to said Cantoni. Anti-glare headlight for motor vehicles. 3,124,309, 3–10–64, Cl. 240—46.03.
Cantonwine, Charles R. Multiple winding induction motor with various winding distribution factors. 3,150,306, 9–22–64, Cl. 318—220.
Cantor, Harry A., J. A. Vona, and B. S. Ainsworth, Jr., to Celanese Corp. of America. Copolymers. 3,140,274, 7–7–64, Cl. 260—78.3.
Cantor, Theodore, to Monostat Corp. Variable feed pump and related method. 3,138,104, 6–23–64, Cl. 103—37.
Cantrall, Edward W., S. Bernstein, and M. J. Fahrenbach, to American Cyanamid Co. 3β-dialkylaminoethoxy androstenes. 3,151,133, 9–29–64, Cl. 260—397.5.
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Goodhue, Lyle D., Cantrel, and Louthan. 3,158,537.
Canty, John M. : *See*—
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Canty, John M., D. G. Driscoll, J. A. Paivanas, and C. V. Snyder, to Union Carbide Corp. Container for low-boiling liquefied gases. 3,134,237, 5–26–64, Cl. 62—50.
Canvas Specialty Mfg. Co. : *See*—
Bleick, Charles F. 3,119,402.
Capaldo, Henry N., H. G. Dombrowski, and C. M. Shannony, to General Motors Corp. Welding control. 3,129,320, 4–14–64, Cl. 219—89.
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Randolph, Hollis L., Caparone, and Graham. 3,140,372.
Caparone, Michael J., and T. J. Dyzkeul, to Robertshaw Controls Co. Control device. 3,133,556, 5–19–64, Cl. 137—505.39.
Caparone, Michael J., and T. J. Dykzeul, to Robertshaw Controls Co. Control valves for a domestic water heater. 3,159,346, 12–1–64, Cl. 236—33.
Caparrelli, Anthony A. Vent flashing cap. 3,163,101, 12–29–64, Cl. 98—46.
Capasso, Pasquale M., to Pasquale M. Capasso, Inc. Wiper device. 3,147,505, 9–8–64, Cl. 15—250.04.
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Cape, Arthur T., to Coast Metals, Inc. Compositions for brazing and coating. 3,117,039, 1–7–64, Cl. 148—24.
Cape, Arthur T., to Coast Metals, Inc. Manganese-base brazing alloys. 3,124,451, 3–10–64, Cl. 75—134.
Cape, Arthur T., to Coast Metals, Inc. Brazing alloy. 3,124,453, 3–10–64, Cl. 75—151.
Cape, Arthur T., to Powder Melting Corp. Apparatus for depositing powdered metals. 3,129,889, 4–21–64, Cl. 239—85.
Cape, Arthur T., to Coast Metals, Inc. Method of preparing alloys for use in brazing. 3,133,347, 5–19–64, Cl. 29—475.
Cape, Arthur T., to Coast Metals, Inc. Method of welding or brazing. 3,133,348, 5–19–64, Cl. 29—494.
Cape, Arthur T., E. M. Zampieri, and H. V. Kough, to Coast Metals, Inc. Ferrous base alloy. 3,136,630, 6–9–64, Cl. 75—128.
Cape, Florence M., to Powder Melting Corp. Girdle. 3,154,082, 10–27–64, Cl. 128—527.
Cape, Richard A. G., to Dominion Bridge Co., Ltd. Light weight trusses and apparatus for the fabricating of same. 3,158,731, 11–24–64, Cl. 219—79.

Capecelatro, Achille, W. J. Spaven, and R. Baker, to Madison Associates, Inc. Method and apparatus for demonstrating wave motion phenomena. 3,124,884, 3–17–64, Cl. 35—19.
Cape Cod Logger Co.: *See*—
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Capehart, Lonnie R., to The Capehart-Zbitnoff Corp. Carburetor with adjustable fuel level control drains. 3,162,235, 12–22–64, Cl. 158—36.3.
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Capel, A. Leon, & Sons, Inc.: *See*—
Capel, Jesse S. 3,142,885.
Capel, Jesse S., to A. Leon Capel & Sons, Inc. Method of manufacturing multi-color, chenille yarn, braid and fabrics, and products manufactured by said method. 3,142,885, 8–4–64, Cl. 28—72.
Capener, Erwin L.: *See*—
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Caperton, Charles B. Two-belt drive for rodding machine. 3,150,397, 9–29–64, Cl. 15—104.3.
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Capezzuto, John P., to The Carter's Ink Co., Sealable liquid-dispensing applicator. 3,132,370, 5–12–64, Cl. 15—541.
Capistrant, Eugene J., and R. E. Olson, to Paul E. Hawkinson Co. Tire buffing and truing machine. 3,117,047, 1–7–64, Cl. 156—410.
Caplan, Charles, I. Mandell, and D. J. Smith. Pressurized plunger. 3,138,803, 6–30–64, Cl. 4—255.
Caplan, David. Adjustable booster chair. 3,127,217, 3–31–64, Cl. 297—232.
Caplan, Isadore, ½ to Markin Tubing, Inc. Manufacture of metal tubing. 3,145,676, 8–25–64, Cl. 113—33.
Caplan, Kenneth S. Game board having changeable pattern. 3,163,425, 12–29–64, Cl. 273—136.
Caplier, Ignace H.: *See*—
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Caporuscio, Anthony. Miniature golf game comprising relatively foldable playing surface elements. 3,163,417, 12–29–64, Cl. 273—87.2.
Capowich, George, and P. A. Meck, to United Aircraft Corp. Blade tip sealing means. 3,136,369, 6–9–64, Cl. 170—159.
Capp, A., & Son Ltd.: *See*—
Capp, Desmond. 3,161,963.
Capp, Desmond, ⅓ to A. Capp & Son Ltd. Linear dimension gauges. 3,161,963, 12–22–64, Cl. 33—172.
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Cappel, Roy G., to Williams-McWilliams Industries, Inc. Quick release mooring device. 3,133,521, 5–19–64, Cl. 114—230.
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Calvano, Pasquale, and Cappetti. 3,147,607.
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Elslager, Edward F., Worth, Capps, and Werbel. 3,139,-421.
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Bonvicini, Alberto, Monaci, and Cappuccio. 3,131,990.
Cappuccio, Vittorio, and U. Riboni, to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Preparation of dye-receptive polyolefin fibers. 3,126,246, 3–24–64, Cl. 8—115.5.
Cappuccio, Vittorio, and U. Riboni, to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Process for improving the tinctorial characteristics of polyolefin fibres. 3,151,928, 10–6–64, Cl. 8—115.5.
Caprio, Amerigo F.: *See*—
Van Gorder, Norman, and Caprio. 3,154,509.
Caprioli, Carlo, to Plastic Packaging Products Ltd. Article separating apparatus. 3,163,067, 12–29–64, Cl. 83—201.
Caprio, Gerald L., to Motorola, Inc. Means for neutralizing amplifier circuits. 3,157,840, 11–17–64, Cl. 330—27.
Capsuto, Leon M., to Socony Mobil Oil Co., Inc. Method of preventing sulfur dioxide deterioration of platinum-group metal reforming catalyst. 3,137,646, 6–16–64, Cl. 208—65.
Captain Products, Inc.: *See*—
Peterson, Carl A. 3,131,909.
Capuano, Italo A., to Union Carbide Corp. Continuous conductometric analysis of an aldehyde. 3,140,918, 7–14–64, Cl. 23—230.
Capuccio, Eugene. Flip open container. 3,132,790, 5–12–64, Cl. 229—20.
Caputi, Alfred A. Loose-leaf binder container for pencils and the like. 3,126,891, 3–31–64, Cl. 129—1.
Caracoes, Antone D. Space pleat fanfold indicator and calculator device. 3,145,480, 8–25–64, Cl. 33—192.
Caracristi, Virginius Z.: *See*—
Powell, Elno M., and Caracristi. 3,135,245.
Caracristi, Virginius Z., to Combustion Engineering, Inc. Vapor generator. 3,135,244, 6–2–64, Cl. 122—240.
Caradco Inc.: *See*—
Adams, Paul L. 3,147,164.
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Winchell, Frank J., and Caramanna. 3,151,497.
Carando Machine Works: *See*—
McCoy, Thomas A. 3,126,938.
Caravella, Frank S. Roll support. 3,138,340, 6–23–64, Cl. 242—55.2.
Carbary, Richard J., to General Electric Co. Insulated wall and method of manufacture. 3,137,900, 6–23–64, Cl. 20—35.
Carbert, Ralph E., and H. R. Larson, to Tel-E-Lect Products, Inc. Utility equipment. 3,116,840, 1–7–64, Cl. 214—3.
Carbert, Ralph E., and H. R. Larson, to Tel-E-Lect Products, Inc. Utility equipment. 3,158,267, 11–24–64, Cl. 212—55.
Carbery, Paul: *See*—
Curtin, William J., and Carbery. 3,119,200.
Carbob Corp.: *See*—
Everett, Carl N. 3,117,511.
Carbon, John A., to Abbott Laboratories. Purine derivatives. 3,133,065, 5–12–64, Cl. 260—252.
Carbon, John A., to Abbott Laboratories. Sulfonyloxy substituted alkylenediamines. 3,136,803, 6–9–64, Cl. 260—456.
Carbon, John A., to Abbott Laboratories. Substituted pyrido [2,3-e]-AS-triazine 1-oxides. 3,137,693, 6–16–64, Cl. 260—247.5.
Carbonel, Richard J. Vented nursing bottle. 3,134,495, 5–26–64, Cl. 215—11.
Carboni, Ralph J. Children's feeding tray. 3,143,374, 8–4–64, Cl. 297—188.
Carboni, Rudolph A., to E. I. du Pont de Nemours and Co. Azo dyes from 2-(O-aminophenyl)-2,1,3-benzotriazoles. 3,148,179, 9–8–64, Cl. 260—157.
Carborundum Co., The: *See*—
Crawley, William P. 3,125,404.
Jensen, Carl N. 3,148,404.
Papacharalambous, Harry G. 3,160,997.
Rushmer, Ralph H. 3,126,262.
Rutt, Richard D. 3,125,834.
Shanta, Peter L., Bartholomew, Sturges, McGahan, and Caine. 3,153,636.
Carcione, Solly J., to Pilgrim Shoe & Sewing Machine Co., Inc. Skiving device. 3,120,013, 2–4–64, Cl. 12—39.5.
Card, Roger B., to American Cyanamid Co. Parenteral diuretic compositions of 5-acylimino-4-substituted-Δ^2-1,3,4-thiadiazolidene-2-sulfonamides. 3,157,572, 11–17–64, Cl. 167—51.5.
Card, Roy T., to The Singer Co. Apparatus for tufting high and low cut pile. 3,138,126, 6–23–64, Cl. 112—79.
Cardani, Cesare: *See*—
Adami, Enrico, Cardani, and Cavalleri.
Cardani, Charles P., V. P. Romeo, G. F. C. Burke, and W. B. Hanson, to United Shoe Machinery Corp. Stringing machines. 3,142,896, 8–4–64, Cl. 29—241.
Cardarelli, Armond, D. O. Chase, and P. H. Stevens, to R. E. Diety Co. Rotating signal light. 3,117,302, 1–7–64, Cl. 340—50.
Cardeiro, Charles P.: *See*—
Graybeal, Troy D., and Cardeiro. 3,122,696.
Cardell, Olof, to Aktiebolaget Svetsmekano. Plate cutting and bevelling machine. 3,117,477, 1–14–64, Cl. 83—3.
Carder, Victor H.: *See*—
Raess, Theodore F., Carder, and Andres. 3,118,460.
Cardinal, Anthony J., W. L. Edens, and J. W. Van Dyk, to E. I. du Pont de Nemours and Co. Novel tetrafluorethylene resins and their preparation. 3,142,665, 7–28–64, Cl. 260—92.1.
Carding Specialists (Canada) Ltd.: *See*—
Varga, André. 3,145,425.
Cardiosonics Medical Instrument Co.: *See*—
Littmann, David. 3,152,659.
Littmann, David. 3,157,201.
Cardwell, John G., to General Electric Co. Incandescent lamp. 3,148,296, 9–8–64, Cl. 313—42.
Cardwell, John G., and M. E. Arnold, to General Electric Co. Electric incandescent projection lamp. 3,160,776, 12–8–64, Cl. 313—112.
Cardwell, Lloyd, to Cardwell Westinghouse Co. Draft rigging. 3,136,427, 6–9–64, Cl. 213—51.
Cardwell Machine Co., The: *See*—
Bonner, Charles W., Jr., and Houck. 3,126,014.
Bonner, Charles W., Jr., and Houck. 3,141,485.
Cardwell Westinghouse Co.: *See*—
Campbell, David S., and Natschke. 3,150,782.
Campbell, David S., and Natschke. 3,150,783.
Cardwell, Lloyd. 3,136,427.
Housman, Richard J., and Natschke. 3,150,781.
Peterson, Bertil E. 3,159,283.
Rauglas, Gerard. 3,119,470.
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Crocco, Richard A., and Carey. 3,159,349.
Carey, Earle V.: *See*—
Wilson, Harry H., and Carey. 3,123,343.
Carey, Gerald D., R. E. Hovda, and S. H. Wong, to North American Aviation, Inc. Microwave phase shifter adjusted by simultaneously altering two dimensions so as to keep frequency dependent phase dispersion constant. 3,132,312, 5–5–64, Cl. 333—31.
Carey, James E., and P. D. Jones, to Shell Oil Co. Process of foaming an epoxy resin composition. 3,154,504, 10–27–64, Cl. 260—2.5.

Carey-McFall Co.: *See*—
Gallagher, Robert T. 3,145,443.
Reukauf, William B. 3,133,851.
Reukauf, William B. 3,140,970.

Carey, Paul P.: *See*—
Hawthorne, Herbert J., and Carey. 3,142,345.

Carey, Philip, Mfg. Co., The: *See*—
Fasold, George A., and Blough. 3,141,858.
Young, James G. 3,132,964.

Carey, Raymond L.: *See*—
McConnell, William M., and Carey. 3,118,546.

Carey, Richard F.: *See*—
Walker, Nelson A., and Carey. 3,159,061.

Carey, Russell N., to Eliason Refrigerator Co. Hinge assembly for a swingable door. 3,160,913, 12–15–64, Cl. 16—154.

Cargill-Detroit Corp.: *See*—
Cargill, Don A., and Mason. 3,157,970.

Cargill, Don A., and A. Mason, to Cargill-Detroit Corp. Grinder control. 3,157,970, 11–24–64, Cl. 51—165.

Cargill, Don A., and L. M. Forster. Spring clutch for conveyor pallet. 3,161,145, 12–15–64, Cl. 104—172.

Cargill, Inc.: *See*—
Eversole, Russell A., and Wingert. 3,127,318.
Guidarelli, Elio J., Eversole, and Lawrence. 3,141,777.
Hubbard, Robert F. 3,155,432.
Kaufmann, Henry H., and Lawrence. 3,141,776.
Lawrence, James F., and Kaufmann. 3,153,344.

Cargill, Norman A., and T. D. Reader, to Sperry Rand Corp. Electro-sonic fluid amplifier. 3,144,037, 8–11–64, Cl. 137—608.

Car-Go, Inc.: *See*—
Hay, Sam M., Ludwig, and Swanstrom. 3,153,294.

Caritron Ultrasonics Inc.: *See*—
Balamuth, Lewis. 3,145,450.

Carkhuff, Edwin D., and D. J. Myers, to Richardson-Merrell Inc. Locking box top. 3,146,935, 9–1–64, Cl. 229—45.

Carkin, Clarence A., A. T. Greenslade, Jr., and R. D. Lambert, to C. G. Sargent's Sons Corp. Device for intimately mixing fluents and discharging the mixed fluents as a jet. 3,130,-914, 4–28–64, Cl. 239—425.

Carlberg, Bobbie L., C. M. Hudgins, Jr., and J. E. Landers, to Continental Oil Co. Method employing combination well completion-packer fluids. 3,126,950, 3–31–64, Cl. 166—1.

Carle, Don W.: *See*—
Donner, Walter B., and Carle. 3,159,020.

Carle, Joseph T., to Borg-Warner Corp. Submersible seal. 3,153,160, 10–13–64, Cl. 310—87.

Carleton, Maurice H., to Sterling Drug Inc. Dispensing device. 3,127,073, 3–31–64, Cl. 222—400.7.

Carleton, Paul D. Internal combustion engine-heat pump system. 3,135 318, 6–2–64, Cl. 165—29.

Carleton, Richard L., to Butler Mfg. Co. Sign construction. 3,148,471, 9–15–64, Cl. 40—125.

Carleton, Richard L., to Butler Mfg. Co. Poster panel. 3,160,974, 12–15–64, Cl. 40—125.

Carlevato, Harold G., to E. I. du Pont de Nemours, and Co. Blasting composition. 3,129,126, 4–14–64, Cl. 149—29.

Carlick, Daniel J., and W. J. Russell, to Interchemical Corp. Printing inks. 3,156,572, 11–10–64, Cl. 106—27.

Carlier, Leunis J., to The Cincinnati Milling Machine Co. Shoulder grinding and spindle end adjustment mechanism. 3,127,713, 4–7–64, Cl. 51—165.

Carlile, Alfred E., to Falon, Inc. Automatic lock slider. 3,129,480, 4–21–64, Cl. 24—205.14.

Carlin, Benson, to Branson Instruments, Inc. Ultrasonic transducers. 3,117,768, 1–14–64, Cl. 259—72.

Carlin, Edward T.: *See*—
Smyrni, Emanuel S., Carlin, and White. 3,134,608.

Carlin, Edward T., to Universal Mfg. Co., Inc. Playground climbing apparatus. 3,120,955, 2–11–64, Cl. 272—60.

Carling, Arthur, and W. T. Sorenson, to Carling Electric, Inc. Progressive switch. 3,117,197, 1–7–64, Cl. 200—67.

Carling Electric, Inc.: *See*—
Carling, Arthur, and Sorenson. 3,117,197.
Svensson, Bengt K. 3,117,208.

Carlisle Chemical Works, Inc.: *See*—
Franzen, Volker. 3,157,703.
Homberg, Otto A. 3,144,422.

Carlisle, Denis R., to Rolls-Royce Ltd. Combustion chamber for a gas turbine engine. 3,142,961, 8–4–64, Cl. 60—39.74.

Carlisle, James L., to General Motors Corp. Windshield wiper transmission. 3,135,982, 6–9–64, Cl. 15—250.3.

Carlisle Tire and Rubber Division of Carlisle Corp.: *See*—
Otstot, James L. 3,117,050.
Otstot, James L., and Hess. 3,117,049.

Carlisle, Willis C.: *See*—
McCarvell, John H., and Carlisle. 3,147,808.
McCarvell, John H., and Carlisle. 3,161,207.

Carlon, Kenneth G.: *See*—
Reaves, Woodrow W., and Carlon. 3,121,231.

Carlon Products Corp.: *See*—
Britton, Philip S., and Fochler. 3,122,171.

Carlozzi, Michael, and W. C. Gittinger, to Chas. Pfizer & Co., Inc. Concurrent oral administration of glucosamine with a tetracycline antibiotic for enchanced antibiotic blood levels. 3,148,113, 9–8–64, Cl. 167—55.

Carls, William. Speed control valve. 3,121,443, 2–18–64, Cl. 137—269.

Carls, William. Manifold construction. 3,135,290, 6–2–64, Cl. 137—608.

Carls, William. Valve. 3,152,614, 10–13–64, Cl. 137—625.69.

Carlsen, Alfred M., Jr., to General Motors Corp. Transmission control. 3,138,968, 6–30–64, Cl. 74—473.

Carlsen, Carl E. Enlarged hand printing stamps. 3,138,096, 6–23–64, Cl. 101—125.

Carlsen, Carl E. Stencil stretching and clamping means for ink hand stamps. 3,152,541, 10–13–64, Cl. 101—125.

Carlsen, Ernest N.: *See*—
Stevenson, George W., Carlsen, and Arthur. 3,147,081.

Carlsen, Henrik A., to F. L. Smidth & Co. Method of controlling the quality of sintered products. 3,133,131, 5–12–64, Cl. 263—52.

Carlsen, Leonard O., and T. A. Deprez, to The Gleason Works. Cutter sharpening machine. 3,146,551, 9–1–64, Cl. 51—34.

Carlsmith, Lawrence A.: *See*—
Burling, Elmer R., and Carlsmith. 3,158,533.

Carlsmith, Lawrence A., to Improved Machinery, Inc. Downfeed continuous pulping apparatus. 3,130,119, 4–21–64, Cl. 162—237.

Carlson, Arne, to Arenco Aktiebolag. Device for advancing a web of sheet material. 3,149,767, 9–22–64, Cl. 226—95.

Carlson, Arthur, Jr., and R. Seiden, to Haver-Lockhart Laboratories. Method of lubricating body cavities. 3,150,-662, 9–29–64, Cl. 128—260.

Carlson, Arthur A.: *See*—
Johnson, Francis, and Carlson. 3,162,638.

Carlson, Arthur F., to Shore-Calnevar, Inc. Adjustable bracket support. 3,155,358, 11–3–64, Cl. 248—226.

Carlson, Arthur W., to Velsicol Chemical Corp. 1,4,5,6,7,8,8-heptachloro - 2,3 - epoxy-3a,4,7,7a-tetrahydro-4,7-methanoindan. 3,118,913, 1–21–64, Cl. 260—348.6.

Carlson, Arthur W., to Velsicol Chemical Corp. Preparation of the gamma isomer of 4,5,6,7,8,8-hexachloro-3a,4,7,7a-tetrahydro-4,7-methanoindene. 3,122,590, 2–25–64, Cl. 260—648.

Carlson, Bernard E. Electronic load indicating device for vehicles with floating body mounting. 3,146,839, 9–1–64, Cl. 177—136.

Carlson, Bertil V.: *See*—
Picciano, Michael A., and Carlson. 3,156,186.

Carlson, Carl O., D. B. Congleton, and D. A. Grafton, to The National Cash Register Co. Optical information display system having metachromatic means. 3,134,297, 5–26–64, Cl. 88—24.

Carlson, Chester F., to Xerox Corp. Xerographic fusing and drying apparatus. 3,140,159, 7–7–64, Cl. 34—155.

Carlson, Chester F., to Xerox Corp. Xerographic fusing and drying apparatus. 3,140,160, 7–7–64, Cl. 34—155.

Carlson, Chester F., to Xerox Corp. Xerographic plate charging method and apparatus. 3,146,385, 8–25–64, Cl. 317—262.

Carlson, Chester F., to Xerox Corp. Xerographic developing apparatus and electrode. 3,147,147, 9–1–64, Cl. 118—637.

Carlson, Chester F., and R. W. Gundlach, to Xerox Corp. Xerographic exposure apparatus. 3,120,790, 2–11–64, Cl. 95—1.7.

Carlson, Cliffard D., and H. J. Hazelton, to Carlson Tool and Machine Co. Automatic brushmaking machine. 3,132,901, 5–12–64, Cl. 300—3.

Carlson, Clifford R., and R. Swiftney, to The Bastian-Blessing Co. Connector spline for cabinet structures. 3,159,-438, 12–1–64, Cl. 312—111.

Carlson, Clifton A. Rock puller with means to rotate the digging teeth under the frame. 3,159,927, 12–8–64, Cl. 37—2.

Carlson, David A. Sanitary shower stall. 3,132,350, 5–12–64, Cl. 4—146.

Carlson, David E., and P. Mallery, to Bell Telephone Laboratories, Inc. Magnetic control circuits. 3,134,909, 5–26–64, Cl. 307—88.

Carlson, David J., to Radio Corp. of America. Tuner. 3,140,-444, 7–7–64, Cl. 325—445.

Carlson, David J., to Radio Corp. of America. Tunnel diode converter utilizing two tunnel diodes. 3,148,331, 9–8–64, Cl. 325—449.

Carlson, David J., and G. B. Waters, to Radio Corp. of America. Automatic frequency control system utilizing a reference oscillator. 3,163,822, 12–29–64, Cl. 325—421.

Carlson, Earl J., and S. E. Horne, Jr., to Goodrich-Gulf Chemicals, Inc. Process of polymerizing conjugated diolefins with a cobalt salt-hydrocarbyl aluminum compound catalyst. 3,135,725, 6–2–64, Cl. 260—94.3.

Carlson, Elmer A., to Honeywell Inc. Control apparatus. 3,154,247, 10–27–64, Cl. 236—9.

Carlson, Elmer T.: *See*—
Kuhar, William A., and Carlson. 3,140,345.

Carlson, Ernest C.: *See*—
Rickerd, Calvin P., Fischer, and Carlson. 3,139,718.

Carlson, Ernest R., to Harvey Hubbell, Inc. Duplet adapter with automatic grounding means. 3,131,013, 4–28–64, Cl. 339—14.

Carlson, George E., to Minnesota Rubber Co. Outboard motor impeller hub. 3,136,370, 6–9–64, Cl. 170—173.

Carlson, George J., F. A. Cleland, and W. Dong, to Shell Oil Co. Conduit with clean-out device. 3,143,302, 8–4–64, Cl. 341—46.

Carlson, Gilbert F., and R. M. Harmon, Jr., to International Telephone and Telegraph Corp. Pressurized medium temperature hot water system. 3,134,543, 5–26–64, Cl. 237—63.

Carlson, Gus A., 25% to G. B. Kessler and 25% to E. L. Garfola. Wheel adapter for boats. 3,135,560, 6–2–64, Cl. 301—131.
Carlson, Harold A., to ACF Industries, Inc. Engine idle speed control. 3,146,844, 9–1–64, Cl. 180—77.
Carlson, Harold A., to ACF Industries, Inc. Carburetor idle control. 3,146,845, 9–1–64, Cl. 180—77.
Carlson, Harold A., to General Electric Co. Spinning reserve peaking gas turbine. 3,151,250, 9–29–64, Cl. 290—52.
Carlson, Harold A., to ACF Industries, Inc. Carburetor. 3,160,150, 12–8–64, Cl. 123—119.
Carlson, Harold A., E. A. Johnson, and E. R. Frey, to ACF Industries Inc. Carburetor. 3,160,682, 12–8–64, Cl. 261—35.
Carlson, Harold A., E. R. Frey, and H. J. Hertling, to ACF Industries Inc. Carburetor. 3,160,684, 12–8–64, Cl. 261—69.
Carlson, Harold G., to General Electric Co. Means for supplying full wave rectified current to the field of an A.C. generator. 3,161,817, 12–15–64, Cl. 322—28.
Carlson, Jerome A., to General Electric Co. Method of matching duplex bearings. 3,150,471, 9–29–64, Cl. 51—291.
Carlson, John A., to Teletype Corp. Mounting for telegraph printer. 3,146,978, 9–1–64, Cl. 248—15.
Carlson, John W., to Speed-O-Print Business Machines Corp. Photocopying machines. 3,132,857, 5–12–64, Cl. 271—51.
Carlson, John W., to Speed-O-Print Business Machines Corp. Attachments for printing devices. 3,149,564, 9–22–64, Cl. 101—413.
Carlson, John W. Printing devices. 3,158,093, 11–24–64, Cl. 101—310.
Carlson, Joseph A.: *See*—
Kuhl, Bernard R., and Carlson. 3,161,815.
Carlson, Lloyd J., and C. B. Adams, to National Rejectors, Inc. Currency detectors. 3,159,277, 12–1–64, Cl. 209—73.
Carlson, Martin. Door operator mechanism. 3,119,310, 1–28–64, Cl. 92—68.
Carlson, Martin. Automatic door operator. 3,129,936, 4–21–64, Cl. 268—34.
Carlson, McKinley S., to I-T-E Circuit Breaker Co. Means for balancing losses in enclosures of isolated phase bus. 3,147,389, 9–1–64, Cl. 307—147.
Carlson, Melvin G., and H. Linkowski, to Goodman Mfg. Co. Automatic regulator for cable reel. 3,158,356, 11–24–64, Cl. 254—173.
Carlson, Oscar N., F. A. Schmidt, and J. A. Haefling, to United States of America, Atomic Energy Commission. Purification of yttrium metal. 3,150,964, 9–29–64, Cl. 75—84.
Carlson, Raymond H., to Textron Industries, Inc. Cold header drives. Re. 25,676, 11–10–64, Cl. 78—17.
Carlson, Raymond H. Hot forging machine. 3,117,218, 1–7–64, Cl. 219—150.
Carlson, Raymond H., to Textron Industries, Inc. Machine for forming metal articles. 3,157,892, 11–24–64, Cl. 10—12.
Carlson, Reuben C.: *See*—
Schrecongost, Ray B., and Carlson. 3,145,581.
Carlson, Reuben C., to Admiral Corp. Interlock drive mechanism. 3,121,343, 2–18–64, Cl. 74—472.
Carlson, Reuben C., to Admiral Corp. Motor system. 3,163,-791, 12–29–64, Cl. 310—83.
Carlson, Richard A., to General Motors Corp. Transistor voltage regulator for a generator with means for preventing discharge of battery through field winding or output winding. 3,136,940, 6–9–64, Cl. 322—73.
Carlson, Richard K.: *See*—
McMaster, Archie J., McMaster, and Carlson. 3,132,369.
Carlson, Robert G., to United States of America, Air Force. Hot pressing barrier material. 3,145,103, 8–18–64, Cl. 75—214.
Carlson, Robert J., to The Emerson Electric Mfg. Co. Speed controller for induction motor. 3,125,711, 3–17–64, Cl. 318—11.
Carlson, Robert J., and C. B. A. Wickenhagen, to Emerson Electric Co. System for improving the starting torque characteristics of induction motors. 3,149,275, 9–15–64, Cl. 318—229.
Carlson, Rollin N.: *See*—
McLeod, Norman F., and Carlson. 3,143,482.
Carlson, Russell L.: *See*—
Arline, Samuel B., and Carlson. 3,134,389.
Carlson Tool and Machine Co.: *See*—
Carlson, Cliffard D., and Hazelton. 3,132,901.
Carlson, William L., Jr.: *See*—
Buesseler, Frank R., and Carlson. 3,119,176.
Carlson, Wyman I., to Chisholm-Ryder Co., Inc. Bean picker. 3,142,949, 8–4–64, Cl. 56—19.
Carlson, Yngve O.: *See*—
Fairbank, Raymond H., and Carlson. 3,145,584.
Carlsson, Arent G., to Bofors, Aktiebolaget. Loading tray for recoiling gun. 3,142,226, 7–28–64, Cl. 89—45.
Carlstein, Joseph, to United Aircraft Corp. Variable reluctance hall effect resolver. 3,152,261, 10–6–64, Cl. 307—11.
Carlston, Hamilton S. Directional control apparatus for a movable closure member. 3,124,380, 3–10–64, Cl. 292—163.
Carlton, C. Sidney: *See*—
Weatherall, Edwin R. 3,143,840.
Carlton, Edward O., to Itek Corp. Data handling system. 3,153,870, 10–27–64, Cl. 40—79.
Carlton, James D.: *See*—
Purdy, David C., and Carlton. 3,153,444.
Carlton, Lawrence W.: *See*—
Kramer, Vance M., and Carlton. 3,131,954.
Kramer, Vance M., and Carlton. 3,155,757.
Carlton Machine Tool Co., The: *See*—
Weidig, Miles. 3,151,719.
Carlton, Raymond R., to Omark Industries, Inc. Saw chain semichisel bit cutter. 3,144,891, 8–18–64, Cl. 143—135.
Carlton and United Breweries Ltd.: *See*—
Hildebrand, Robert P., Harold, Clarke, and Murray. 3,155,522.
Carman, Alexander J.: *See*—
Osban, William R., and Carman. 3,118,154.
Zytka, John, and Carman. 3,119,212.
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Ryder, Ambrose. 3,149,384.
Carmer Industries, Inc.: *See*—
Redmer, Carl A. 3,117,344.
Redmer, Carl A. 3,121,001.
Carmi, Arieh, and T. J. Rayeski, to Corning Glass Works. Glass pressing apparatus. 3,158,391, 11–24–64, Cl. 287—130.
Carmichael, George W.: *See*—
Tamura, Yoshiaki, Carmichael, and Georgantas. 3,145,-265.
Carmichael, John E.: *See*—
Kalafus, Edward F., and Carmichael. 3,148,165.
Carmichael, Robert, and J. L. S. Daley, to Union Carbide Corp. Method and apparatus for forming a separator for galvanic cells. 3,118,350, 1–21–64, Cl. 93—36.01.
Carmichael, Tilden M.: *See*—
Carmody, Edmund O., and Pumm. 3,146,533.
York, Raymond P., and Carmichael. 3,120,860.
Carmody, Edmund O., and P. P. Pumm, to Carmody Corp. Personnel training apparatus. 3,146,533, 9–1–64, Cl. 35—10.
Carnahan, Raymond K.: *See*—
Julius, Richard F., and Carnahan. 3.156,412.
Carnahan, Robert E.: *See*—
Bloom, Barry M., and Carnahan. 3,129,258.
Carnall, Edward: *See*—
Cary, Donald S., Parsons, and Carnall. 3,157,521.
Carnall, Edward, Jr., P. B. Mauer, W. F. Parsons, and D. W. Roy, to Eastman Kodak Co. Zinc sulfide optical element. 3,131,025, 4–28–64, Cl. 23—135.
Carnall, Edward, Jr., and L. S. Ladd, to Eastman Kodak Co. Purification of zinc sulfide powder. 3,131,026, 4–28–64, Cl. 23—135.
Carnall, Edward, Jr., P. B. Mauer, W. F. Parsons, and D. W. Roy, to Eastman Kodak Co. Process for molding zinc sulfide. 3,131,238, 4–28–64, Cl. 264—1.
Carner, James F. Reversible discharge flow and variable displacement pump. 3,143,079, 8–4–64, Cl. 103—120.
Carner, James F. Variable flow and reversible hydraulic pump. 3,162,137, 12–22–64, Cl. 103—120.
Carney, Brian R.: *See*—
Simmons, Donald E. 3,141,550.
Carney, Delmar E.: *See*—
Ritter, George F., Jr., Carney, Nyquist, and Miller. 3,124,444.
Carney, Delmar E., to Libbey-Owens-Ford Glass Co. Method of and appaartus for determining furnace temperatures. 3,160,009, 12–8–64, Cl. 73—355.
Carney, Dennis J., S. J. Manganello, and J. E. Steiner, to United States Steel Corp. High strength steel and method of treatment thereof. 3,151,979, 10–6–64, Cl. 75—128.
Carney, John L., Jr., to ACF Industries, Inc. Hatch cover for railway cars. 3,155,052, 11–3–64, Cl. 105—377.
Carney, Richard R., and S. R. Koch, to Union Carbide Corp. Volatile liquid storage container pressure regulating means. 3,123,981, 3–10–64, Cl. 62—51.
Carney, Rowe E., Jr.: *See*—
Smith, Tom F. 3,144,806.
Carnwath, James R. Electric heating unit for hot bed. 3,136,090, 6–9–64, Cl. 47—19.
Carolan, Raymond J., to Puritan Compressed Gas Corp. Diaphragm operated pressure retaining valve. 3,150,683, 9–29–64, Cl. 137—493.
Carolina Farm Service, Inc.: *See*—
Rawlinson, William J. 3,137,073.
Carolina Plating & Stamping Co.: *See*—
Huffman, Samuel L., and Irwin. 3,124,431.
Carolyn Chenilles, Inc.: *See*—
Levine, Nathan B. 3,138,844.
Caron, Charles, to Mefina S.A. Control device for controlling the position of a machine element. 3,137,257, 6–16–64, Cl. 112—158.
Caron, Philip E., to Weyerhaeuser Co. Felter head and agitator. 3,145,430, 8–25–64, Cl. 19—155.
Caron, Wilfred N., to United States of America, Air Force. Ridged waveguide fed scimitar antenna. 3,146,454, 8–25–64, Cl. 343—848.
Carosella, Michael C., and W. Chynoweth, to Union Carbide Corp. Process for the production of low silicon, medium- to low carbon ferromanganese. 3,138,455, 6–23–64, Cl. 75—133.5.
Carothers, Charles H., to Westinghouse Electric Corp. Circuit interrupter for lightning arrestors. 3,153,128, 10–13–64, Cl. 200—115.
Carothers, James F.: *See*—
Allman, William T., Jr., Layman, Carothers, Higgins, and Haley. 3,148,101.
Carousel-Sanwa Licensing Corp.: *See*—
Teshima, Minoru. 3,151,340.

Carow, Walter M.: *See*—
Riordan, Hugh E., and Carow. 3,161,065.
Carow, Walter M., and J. W. Davies, to General Precision, Inc. Vertical sensing element. 3,143,719, 8–4–64, Cl. 336—30.
Carp, Arthur. Blind stitch attachment. 3,137,255, 6–16–64, Cl. 112—140.
Carpco-Kewanee, Inc.: *See*—
Carswell, John L. 3,121,055.
Carpco Research & Engineering, Inc.: *See*—
Carpenter, James H. 3,144,929.
Carpenter, Archer W., ½ to M. R. Speirs. Price tag holder. 3,117,387, 1–14–64, Cl. 40—16.
Carpenter, Arley D.: *See*—
Carpenter, John A. and A. D. 3,143,325.
Carpenter, Austin T., to United Shoe Machinery Corp. Dimethylol-coesol modified polysulphide polymer sealant. 3,142,656, 7–28–64, Cl. 260—38.
Carpenter, Austin T., and C. E. Shilton, to United Shoe Machinery Corp. Sealants compositions and article of organosilicon compounds with polysulfide polymer. 3,123,495, 3–3–64, Cl. 117—72.
Carpenter, Clifford L.: *See*—
Belknap, Louis S., and Carpenter. 3,145,083.
Secord, Robert N., and Carpenter. 3,128,152.
Carpenter, Duane I.: *See*—
Porteous, Emmett E., and Carpenter. 3,156,827.
Carpenter, Edward F. Cable puller. 3,140,856, 7–14–64, Cl. 254—134.3.
Carpenter, Edwin O., to The Cincinnati Milling Machine Co. Machine tool control mechanism. 3,146,676, 9–1–64, Cl. 90—21.
Carpenter, Elmer B., to Automatic Poultry Feeder Co. Feed trough control mechanism. 3,124,104, 3–10–64, Cl. 119—51.12.
Carpenter, Harry W. Cooling device. 3,146,608, 9–1–64, Cl. 62—293.
Carpenter, Herbert L. and H. L. Carpenter, Jr., to The Grief Bros. Cooperage Corp. Plastic lined fiber containers. 3,126,797, 3–31–64, Cl. 93—36.01.
Carpenter, Herbert L., Jr.: *See*—
Carpenter, Herbert L. and Carpenter, Herbert L., Jr. 3,126,797.
Carpenter, Irvin M.: *See*—
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Melton, James O., and Carpenter. 3,129,997.
Melton, James O., and Carptener. 3,142,186.
Carpenter, Jack T. Cotton wad breaker. 3,159,880, 12–8–64, Cl. 19—82.
Carpenter, James H., to Carpco Research & Engineering, Inc. Belt conveyor. 3,144,929, 8–18–64, Cl. 198—165.
Carpenter, James W. Paint distributor attachments for paint brushes. 3,120,677, 2–11–64, Cl. 15—551.
Carpenter, Janeth T.: *See*—
Chapman, Robert L., Brown, Carpenter, and Wyman. 3,141,243.
Carpenter, John A. and A. D. Cable support. 3,143,325, 8–4–64, Cl. 248—68.
Carpenter, John M. Self-sealing rotary valve mechanism. 3,130,953, 4–28–64, Cl. 251—182.
Carpenter, John M., J. N. Sutherland, and E. G. Vooght, to Link-Belt Co. Flask handling equipment. 3,150,425, 9–29–64, Cl. 22—95.5.
Carpenter, Joseph E., to American Cyanamid Co. Mine roof stabilization detection. 3,163,010, 12–29–64, Cl. 61—36.
Carpenter, Keith H., to General Motors Corp. Hydraulically operated windshield wiper system. 3,137,135, 6–16–64, Cl. 60—52.
Carpenter, Martin M.: *See*—
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Carpenter, Ose F. Poultry coop. 3,141,566, 7–21–64, Cl. 217—57.
Carpenter, Otis R., to The Babcock & Wilcox Co. Welded tubular attachment to a pressure member and method of making same. 3,120,400, 2–4–64, Cl. 285—137.
Carpenter, Otis R., to The Babcock & Wilcox Co. Furnace wall of spaced tubes welded to contoured plate. 3,120,869, 2–11–64, Cl. 165—171.
Carpenter, Richard A., to Spencer Chemical Co. Particulate polyolefin-liquid oxidizing agent propellant and rocket containing the same. 3,136,669, 6–9–64, Cl. 149—74.
Carpenter, Richard W.: *See*—
Higgs, Joseph B., Carpenter, and Van der Eb. 3,157,347.
Carpenter, Robert L., and G. P. Christensen, to Lockheed Aircraft Corp. Container and lid assembly. 3,117,692, 1–14–64, Cl. 220—60.
Carpenter, Russell T., to Kimberly-Clark Corp. Minimizing scratches in a blade coated paper web by roughening the smooth side of the web prior to the blade coating operation. 3,133,855, 5–19–64, Cl. 162—135.
Carpenter, Russell T., to Kimberly-Clark Corp. Method of blade-coating utilizing high angles of flexible blades. 3,158,498, 11–24–64, Cl. 117—102.
Carpenter Steel Co., The: *See*—
Culp, Neil J. 3,136,665.
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Carpenter, Victor W., and J. M. Jackson, to Armco Steel Corp. Non-oriented silicon-iron sheet stock and process of making it. 3,130,091, 4–21–64, Cl. 148—111.
Carpenter, Victor W., J. M. Jackson, and R. W. Squibb, to Armco Steel Corp. Production of silicon iron sheet stock. 3,152,021, 10–6–64, Cl. 148—111.
Carpenter, Virgil R., to International Vending Machines, Inc. Cup dispensing mechanism. 3,119,519, 1–28–64, Cl. 221—113.
Carpenter, Virgil R., to International Vending Machines, Inc. Dispensing mechanism. 3,136,450, 6–9–64, Cl. 221—114.
Carpenter, Wayne R., to United States of America, Navy. Process for synthesis of various tetrazoles. 3,138,609, 6–23–64, Cl. 260—308.
Carpenter, William G., to American Cyanamid Co. Homopolymerization of acetylene with ferric chloride as catalyst. 3,131,172, 4–28–64, Cl. 260—94.1.
Carpenter, William P., to The Superior Electric Co. Lighting device. 3,147,928, 9–8–64, Cl. 240—123.
Carpezzi, Leo J. Height adjustable dolly. 3,137,512, 6–16–64, Cl. 280—35.
Carpigiani, Poerio, to APAW, S.A. Multi-piston dosing and dispensing cock. 3,149,756, 9–22–64, Cl. 222—137.
Carpinella, Michael J., to Scovill Mfg. Co. Pliers for attaching snap fasteners. 3,145,388, 8–25–64, Cl. 1—317.
Carr, Barney J., to Kaman Aircraft Corp. Pulsed neutron generator with high vacuum and control grid between ion source and target. 3,141,975, 7–21–64, Cl. 250—84.5.
Carr, Charles E. Method for preventing channeling in hydraulic fracturing of oil wells. 3,161,235, 12–15–64, Cl. 166—29.
Carr, Cleatues A., and E. L. Mardock. Socket wrench. 3,126,774, 3–31–64, Cl. 81—125.
Carr, Clifford H. Compressor valve. 3,148,697, 9–15–64, Cl. 137—327.
Carr, Cornelius F.: *See*—
Carr, Rose C., and C. F. 3,147,052.
Carr, Curtis E., to The Perkin-Elmer Corp. Data processing card punching. 3,156,148, 11–10–64, Cl. 83—34.
Carr, Donald E., to Phillips Petroleum Co. Solid polyolefin containing an aryl substituted polyolefin and having improved clarity. 3,118,857, 1–21–64, Cl. 260—45.5.
Carr, Donald E., to Phillips Petroleum Co. Production of olefin polymers. 3,120,506, 2–4–64, Cl. 260—93.7.
Carr, Donald E., to Phillips Petroleum Co. Solid-fluid rocket propellant system. 3,128,599, 4–14–64, Cl. 60—35.6.
Carr, Edward W., E. P. Decraene, and I. J. Acosta, to Crane Co. Adjustable pressure setting arrangement for pressure responsive valves. 3,122,160, 2–25–64, Cl. 137—484.2.
Carr, Jack L. Paint washer roller. 3,133,548, 5–19–64, Cl. 134—138.
Carr, John W.: *See*—
Hanus, Edward J., and Carr. 3,161,568.
Carr, Joseph A. Torque responsive clutch for marine propeller. 3,136,400, 6–9–64, Cl. 192—56.
Carr, Laurence H., to Edward Valves, Inc. Valve operators. 3,148,553, 9–15–64, Cl. 74—142.
Carr, Lester, to Texaco Inc. Cap feeding machine. 3,127,053, 3–31–64, Cl. 221—13.
Carr, Maurice K.: *See*—
Lind, Orbie E., Jr., and Carr. 3,147,682.
Carr, Norman L., to The Pure Oil Co. Isomerization catalyst and process. 3,123,573, 3–3–64, Cl. 252—442.
Carr, Norman L., O. L. Beber, and V. Brozowski, to The Pure Oil Co. Process for hydroisomerization of hydrocarbons including the oxidative regeneration of catalyst employed therein. 3,142,713, 7–28–64, Cl. 26—683.65.
Carr, Paul: *See*—
Meyer, Kenneth H., and Carr. 3,156,160.
Carr, Richard E.: *See*—
Neipert, Marshall P., and Carr. 3,134,698.
Carr, Robert J.: *See*—
Mann, Emmett H., and Carr. 3,124,927.
Carr, Roderick R.: *See*—
Oldfield, Thomas A., and Carr. 3,141,382.
Carr, Rose C., and C. F. Combination storage case and working table. 3,147,052, 9–1–64, Cl. 312—241.
Carr, William F., to United States of America, Air Force. Electrical primary flight control system. 3,136,504, 6–9–64, Cl. 244—78.
Carr, William F., to United States of America, Air Force. Magnetic switch overload device. 3,158,795, 11–24–64, Cl. 317—172.
Carranza, William L. Bailing twine. 3,137,990, 6–23–64, Cl. 57—140.
Carrasco, Rene R.: *See*—
Hullinger, Clifford H., and Carrasco. 3,144,298.
Carre, Jean C.: *See*—
Breton, Denis, and Carre. 3,141,342.
Carreberg, Gustaf U. A., to Industrifjadrar, Aktiebolaget. Take-up devices for safety belts. 3,137,526, 6–16–64, Cl. 297—388.
Carrel, Robert L., and P. E. Mayes, to The University of Illinois Foundation. Multi-band log periodic antenna. 3,150,376, 9–22–64, Cl. 343—792.5.
Carrell, Ross M., W. F. Meeker, and M. L. Touger, to United States of America, Air Force. Ear protector. 3,117,575, 1–14–64, Cl. 128—152.
Carrell, Theodore R., and T. J. McCuistion, to Parker-Hannifin Corp. Joint seal. 3,158,380, 11–24–64, Cl. 277—235.

Carrick Products Co.: *See*—
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Carrier Corp.: *See*—
Ashley, Carlyle M., and Coleman. 3,122,201.
Barth, Eugene W. 3,134,040.
Bentley, Howard A. 3,131,843.
Block, Leo, and Hollingsworth. 3,140,706.
Bourne, Joseph R., and Eisberg. 3,138,005.
Brown, Earl L., Jr., and English. 3,140,591.
Church, Richard A. 3,117,723.
Church, Richard A., and Haritonoff. 3,143,292.
Cohen, Arthur. 3,138,936.
Gable, Gerald K. 3,148,511.
Gebert, Gregory G. 3,126,712.
Griffin, Maurice V. 3,133,429.
Grotzinger, Lester G. 3,132,908.
Hale, Harry T. 3,142,970.
Hungate, Ernest C. 3,141,749.
Hungate, Ernest C. 3,141,750.
Johnson, Robert W. 3,133,426.
Johnson, Robert W. 3,134,241.
Leonard, Louis H., Jr. 3,123,984.
Leonard, Louis H., Jr. 3,124,938.
Macrow, Lawrence. 3,161,029.
McGrath, William L. 3,132,492.
McGrath, William L. 3,141,996.
McGrath, William L. 3,163,100.
McGrath, William L., Rachfal, and Clark. 3,141,311.
McGrath, William L., and Randolph. 3,142,013.
McNeely, Lowell A. 3,131,552.
Merrick, Richard H. 3,140,589.
Miller, Arthur J. 3,131,461.
Nippes, Paul I. 3,132,296.
Osborne, William T. 3,131,546.
Privon, George T., and Kropiwnicki. 3,162,360.
Rachfal, Stanley J., and Macrow. 3,146,605.
Rhea, Hal H. 3,131,549.
Schmidt, Jack F. 3,132,490.
Stenerson, Randolph N. 3,132,989.
Tothero, Dwight L. 3,127,531.
West, Walter J., and Seigart. 3,119,550.
Wilson, David S. 3,120,743.
Wright, Timothy A. 3,123,989.
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Carrier Mfg. Co.: *See*—
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Carrier, Robert M., Jr., to Carrier Mfg. Co. Elevator. 3,152,683, 10–13–64, Cl. 198—75.
Carriere, Donald L., J. T. Lasky, and I. M. Swatman, to Ford Motor Co. Overspeed control means for a gas turbine engine. 3,158,999, 12–1–64, Cl. 60—39.09.
Carriere, Maurice M., C. F. Casey, A. W. G. Ervine, J. K. Hamil, R. G. Schimpf, F. H. Smith, and J. R. Turner, to Remington Arms Co., Inc. Apparatus for packaging elongated articles. 3,123,959, 3–10–64, Cl. 53—143.
Carrigan, Raymond J.: *See*—
Harrison, Wayne T., and Carrigan. 3,157,206.
Harrison, Wayne T., and Carrigan. 3,160,176.
Carrigan, William H.: *See*—
Emaus, William G., Jr., and Carrigan. 3,137,830.
Carrigan, William H., K. R. Blanding, and D. E. Brouwer, to Kirkhof Mfg. Corp. Double piston welding cylinder. 3,150,563, 9–29–64, Cl. 91—167.
Carriker, Jesse C. Concrete wall decoration apparatus. 3,148,433, 9–15–64, Cl. 25—128.
Carrillo, Andres M., to Rotat-Coffee, Inc. Infusion machine. 3,128,691, 4–14–64, Cl. 99—293.
Carrillo, Nestor. Slide projector. 3,161,109, 12–15–64, Cl. 88—28.
Carrington, James E.: *See*—
Bush, Grant H., and Carrington. 3,131,293.
Carrington, Jason P. Stationary bicycle attachment for physical conditioning. 3,125,341, 3–17–64, Cl. 272—73.
Carriol, Louis A., to Satam-Societe Anonyme pour tous Appareillages Mecaniques. Liquid flow control apparatus. 3,152,623, 10–13–64, Cl. 141—209.
Carroll, Alfred J., ½ to T. H. Chamberlin. Blood sampler. 3,135,261, 6–2–64, Cl. 128—220.
Carroll, Charles, to Duff-Norton Co. Ratchet lever hoist. 3,139,268, 6–30–64, Cl. 254—167.
Carroll, Dee B. Escape hatches for passenger airliner. 3,144,224, 8–11–64, Cl. 244—129.
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Adler, Clarence E., and Carroll. 3,122,995.
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Carroll, John H.: *See*—
Richardson, Alan H., and Carroll. 3,126,068.
Carroll, John H. Tensionless web control for multiple roll devices. 3,118,313, 1–21–64, Cl. 74—230.17.
Carroll, Paul E.: *See*—
Petkovich, Frank, and Carroll. 3,158,463.
Carroll, Ralph E.: *See*—
Khouri, Alfred S., Carroll, Craig, and Tedder. 3,124,073.
Carroll, Robert L. Winding tube adapter. 3,136,498, 6–9–64, Cl. 242—130.
Carroll, Robert L. Spindle brake. 3,141,288, 7–21–64, Cl. 57—88.
Carroll, Warren. Head gasket leak tester. 3,127,246, 3–31–64, Cl. 23—253.
Carroll, William A., to The Lorac Co., Inc. Ear clip having adjustable leaf spring. 3,158,011, 11–24–64, Cl. 63—14.
Carroll, William J., Jr.: *See*—
Russell, Edward J., Carroll, and Kush. 3,120,026.
Carroll, William N., to International Business Machines Corp. Pulse train sensing circuitry. 3,157,780, 11–17–64, Cl. 235—164.
Carroll, William N., and D. J. Hinkein, to International Business Machines Corp. Time pulse distributor. 3,119,983, 1–28–64, Cl. 340—173.
Carroll, William N., R. W. Emery, and J. J. Moyer, to International Business Machines Corp. Transfer circuit for controlling data transfer from adder to accumulator. 3,152,262, 10–6–64, Cl. 307—88.5.
Carroll, William P., Jr., A. H. Johnson, and M. L. Haiman. Automatic camera detection systems. 3,117,314, 1–7–64, Cl. 343—7.
Carrona, Genevieve C. Roller type apparatus for carrying, feeding, and applying an applicatory liquid. 3,138,814, 6–30–64, Cl. 15—98.
Carruthers, Eben H., to Chisholm-Ryder Co., Inc. Cutter bank for harvesters for pod type vegetables. 3,119,395, 1–28–64, Cl. 130—30.
Carruthers, Eben H. Machine for packing fish in containers. 3,123,958, 3–10–64, Cl. 53—123.
Carruthers, Eben H. Method of packing fish in containers. 3,124,469, 3–10–64, Cl. 99—188.
Carruthers, Eben H., to Chisholm-Ryder Co., Inc. Cutter bank for harvesters for pod type vegetables. 3,144,022, 8–11–64, Cl. 130—30.
Carruthers, Eben H., L. K. Anderson, and P. E. Jann, to Fish Processes Corp. Method of preparing fish for consumption. 3,152,912, 10–13–64, Cl. 99—111.
Carruthers, George A., to Turbo Machine Co. Tow fiber crimping apparatus. 3,139,664, 7–7–64, Cl. 28—1.
Carruthers, James M.: *See*—
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Carsen, Marx J. and R. A., to Carsen & Son, Ltd. Card game for amusement and educational purposes. 3,143,348, 8–4–64, Cl. 273—152.1.
Carsen, Roy A.: *See*—
Carsen, Marx J. and R. A. 3,143,348.
Carsen & Son, Ltd.: *See*—
Carsen, Marx J. and R. A. 3,143,348.
Carskadon, Thomas W. Trouser leg pressing machine. 3,126,658, 3–31–64, Cl. 38—5.
Carski, Theodore J., to Baltimore Biological Laboratory, Inc. Petri dish. 3,158,553, 11–24–64, Cl. 195—139.
Carson, Andrew, and M. J. Hurwitz, to Rohm & Haas Co. Polyesters containing terminally located phosphonate groups and resinous compositions formed therefrom. 3,150,208, 9–22–64, Cl. 260—45.4.
Carson, Brian H., and J. G. Barr, to Federal-Mogul-Bower Bearings, Inc. Unitized radial shaft seals. 3,135,518, 6–2–64, Cl. 277—37.
Carson, Charles J.: *See*—
Watt, Charles E., Jr., and Carson. 3,129,278.
Carson, Don B.: *See*—
Broughton, Donald B., Carson, and Stine. 3,131,232.
Carson, Edward T. Steering wheel clamp. 3,138,036, 6–23–64, Cl. 74—495.
Carson, Frank J.: *See*—
Dunipace, Donald W., and Carson. 3,147,104.
Carson Mfg. Co.: *See*—
Fisher, Kenneth J. 3,145,708.
Carson, Neill J., Jr., H. W. Ostrander, and C. N. Munter, to United States of America, Atomic Energy Commission. Friction-free balance. 3,123,165, 3–3–64, Cl. 177—208.
Carson, Raymond H., to Textron Industries, Inc. Machine for making headed articles. 3,158,047, 11–24–64, Cl. 78—17.
Carson, Raymond M. Tractor seat mount. 3,134,568, 5–26–64, Cl. 248—425.
Carson, William N., Jr., to General Electric Co. Battery electrode compositions. 3,132,054, 5–5–64, Cl. 136—137.
Carstens, Jørgen. Presser mechanism for a machine for combining two members, such as a book and a cover. 3,126,562, 3–31–64, Cl. 11—4.
Carstensen, Jens T., J. J. Vance, and G. Zbinden, to Hoffmann-La Roche Inc. Chlordiazepoxide and clidinium halide composition and method of using same. 3,122,474, 2–25–64, Cl. 167—55.
Carswell, Benjamin S. Pillow. 3,140,497, 7–14–64, Cl. 5—338.
Carswell, John L., to Carpco-Kewanee, Inc. Liquid level control apparatus. 3,121,055, 2–11–64, Cl. 204—302.
Carswell, Samuel A., to Ingersoll-Rand Co. Multi-stage centrifugal pump. 3,118,386, 1–21–64, Cl. 103—97.
Cartelli, Michael R. Tape actuated multiple contact switch. 3,150,242, 9–22–64, Cl. 200—46.
Carter, A. B., Inc.: *See*—
Carter, James B., and Gregg. 3,134,219.
Carter, Andrew G., to A. G. and H. T. Carter, d.b.a. Carter Engineering Co. Slide-action buckle for safety belts. 3,127,655, 4–7–64, Cl. 24—230.
Carter, Andrew G., to A. G. and H. T. Carter, d.b.a. Carter Engineering Co. Simplified slide-action buckle mechanism 3,130,466, 4–28–64, Cl. 24—230.
Carter, Andrew G., and H. G. Alofs, to A. G. and H. J. Carter, d.b.a. Carter Engineering Co. Clamped sister-hook terminal coupling for safety belts. 3,128,520, 4–14–64, Cl. 24—242.

Carter, Andrew G., and H. G. Alofs, said Carter assor. to A. G. H. T. Carter, a partnership d.b.a. Carter Engineering Co. Separable fastener biasing system. 3,144,696, 8–18–64, Cl. 24—230.
Carter, Andrew G., and H. G. Alofs; said Carter assor. to Carter Engineering Co. Buckle for safety belts. 3,152,377, 10–13–64, Cl. 24—230.
Carter, Andrew G., and H. G. Alofs, said Carter assor. to A. G. and H. T. Carter. Separable fastener. 3,156,025, 11–10–64, Cl. 24—230.
Carter, B. F., & Co. Ltd.: *See*—
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Carter, Cecil P., to Borg-Warner Corp. Chip producing saw. 3,144,058, 8–11–64, Cl. 143—133.
Carter, Charles W., to United States Instrument Corp. Narrow band sensing circuit. 3,135,896, 6–2–64, Cl. 317—147.
Carter, Clarence J., to United States of America, Navy. Voltage sampling, amplifying, and combining cathode ray tube system. 3,153,173, 10–13–64, Cl. 315—21.
Carter Controls, Inc.: *See*—
Lanman, Robert W. 3,143,932.
Carter Craft, Inc.: *See*—
Carter, Lewis D. 3,161,395.
Carter, Daniel H.: *See*—
Adamson, Bliss, Carter, and McNemar. 3,145,995.
Carter, Daniel T., and G. H. Rendel, to United States Steel Corp. Method and apparatus for embossing plastic coated strip. 3,129,457, 4–21–64, Cl. 18—10.
Carter, David C., to Johns-Manville Corp. Joint for insulating board roof plank. 3,138,898, 6–30–64, Cl. 50—347.
Carter, Edwin P.: *See*—
Haines, William M., Jr., and Carter. 3,138,962.
Carter Engineering Co.: *See*—
Carter, Andrew G. 3,127,655.
Carter, Andrew G. 3,130,466.
Carter, Andrew G., and Alofs. 3,128,520.
Carter, Andrew G., and Alofs. 3,144,696.
Carter, Andrew G., and Alofs. 3,152,377.
Carter, Eric, to B. F. Carter & Co. Ltd. Stranding machines. 3,158,980, 12–1–64, Cl. 57—13.
Carter, Ernest P., to Monsanto Co. Annealing apparatus. 3,140,594, 7–14–64, Cl. 68—5.
Carter, Ernest P., to Monsanto Co. Spinning apparatus. 3,152,362, 10–13–64, Cl. 18—8.
Carter, Harriett T.: *See*—
Carter, Andrew G. 3,127,655.
Carter, Andrew G. 3,130,466.
Carter, Andrew G., and Alofs. 3,128,520.
Carter, Andrew G., and Alofs. 3,144,696.
Carter, Andrew G., and Alofs. 3,156,025.
Carter, Herman T., to Bell Telephone Laboratories, Inc. Relay control circuit. 3,150,238, 9–22–64, Cl. 179—99.
Carter, James B., Ltd.: *See*—
Windsor, Lynne E. 3,143,634.
Carter, James B., and E. H. Gregg, to A. B. Carter, Inc. Filled thermoplastic travelers. 3,134,219, 5–26–64, Cl. 57—125.
Carter, James P., to United Shoe Machinery Corp. Antirebound device for sewing machines. 3,126,851, 3–31–64, Cl. 112—219.
Carter, John A.: *See*—
Bloomfield, Allan A., Carter, Jones, Saunders, and Searle. 3,161,914.
Carter, John H.: *See*—
Gay, Benjamin A., Johnson, Sulze, and Carter. 3,150,591.
Carter, John W., to Caterpillar Tractor Co. Control system for tandem unconnected vehicles whereby rear vehicle controls work means of the forward vehicle. 3,144,723, 8–18–64, Cl. 37—129.
Carter, John W., and P. J. Costa, to Caterpillar Tractor Co. Wheel slip control for tractor-trailer combinations. 3,130,805, 4–28–64, Cl. 180—14.
Carter, John W., N. R. Rollins, and R. E. Guhl, to Caterpillar Tractor Co. Resilient suspension for vehicle seat. 3,150,855, 9–29–64, Cl. 248—400.
Carter, Joseph H.: *See*—
Blahnik, David J. 3,145,056.
Carter, Joseph H. Spring motor operated tilting dump truck. 3,145,055, 8–18–64, Cl. 298—22.
Carter, Lavoy. Adjustable walkway structure for use as a bridge, stairs, ramp, or the like. 3,150,742, 9–29–64, Cl. 182—93.
Carter, Lawrence T., to Holt Hosiery Mills, Inc. Preboarding apparatus. 3,142,423, 7–28–64, Cl. 223—76.
Carter, Lewis D., to Carter Craft, Inc. Adjustable strut. 3,161,395, 12–15–64, Cl. 248—354.
Carter, Nathan A., Jr., and R. S. Johnson, to Arrow Equipment Co., Inc. Convertible trailer. 3,126,224, 3–24–64, Cl. 296—28.
Carter, Norman W., to Beckman Instruments, Inc. Densitized glass membrane and the method and composition for producing the same. 3,129,160, 4–14–64, Cl. 204—195.
Carter Products, Inc.: *See*—
Berger, Frank M., Hubbard, and Braun. 3,132,995.
Carter, Quincy A., Jr. Method of applying indicia to leg apparel. 3,135,442, 6–2–64, Cl. 223—1.
Carter, Ralph E.: *See*—
Tragert, William E., Fullman, and Carter. 3,138,490.
Carter, Reginald H. F., to X-O-Matics (Sales) Ltd. Vending machines. 3,123,415, 3–3–64, Cl. 312—97.1.
Carter, Richard P., and F. T. Parkinson, to Hercules Powder Co. Operation of chemical reactions in the liquid phase. 3,154,577, 10–27–64, Cl. 260—524.
Carter, Robert D., to Pan American Petroleum Corp. Method for injecting and recovering fluids from a formation. 3,159,214, 12–1–64, Cl. 166—4.
Carter, Sidney T., to Geo. J. Meyer Mfg. Co. Grip-finger assembly for labeling machine. 3,134,707, 5–26–64, Cl. 156—493.
Carter, Sidney T., to Geo. J. Meyer Mfg. Co. Article holddown for labeling machines. 3,142,374, 7–28–64, Cl. 198—165.
Carter, Sidney T., to Geo. J. Meyer Mfg. Co. Selective quantity ratio divider conveyor. 3,145,825, 8–25–64, Cl. 198—30.
Carter, Terry L. Machine for packing partitioned cases. 3,116,579, 1–7–64, Cl. 53—160.
Carter, Terry L. Machines for counting and stacking tiles or other products. 3,127,820, 4–7–64, Cl. 93—93.
Carter, Thomas A., and G. D. Sumerlin. Linear motor or generator. 3,149,254, 9–15–64, Cl. 310—12.
Carter, Thomas J., and J. C. Williams, to Baker Oil Tools, Inc. Packer with spring biased threaded slips. 3,136,365, 6–9–64, Cl. 166—136.
Carter, Vincent A., to Champlain-Zapata Plastic Machinery, Inc. Molding press. 3,160,919, 12–15–64, Cl. 18—17.
Carter, William R.: *See*—
Quick, Kenneth A., Anderson, and Carter. 3,116,817.
Carter, William R. Flow responsive control device. 3,148,253, 9–8–64, Cl. 200—61.21.
Carter, Zoma V. Car window cushion. 3,129,974, 4–21–64, Cl. 296—49.2.
Carter's Ink Co., The: *See*—
Capezzuto, John P. 3,127,010.
Capezzuto, John P. 3,132,370.
Lynch, Gregory R., and Tuscher. 3,122,093.
Oster, Gerald. 3,145,156.
Cartier, William O.: *See*—
McLaughlin, George H., Harvey, Cartier, and Robinson. 3,126,510.
Cartier, William O., and G. H. McLaughlin, to Crossland Licensing Corp. Ltd. Method of geophysical prospecting by measuring the earth's magnetic time transients simultaneously in two different directions. 3,149,278, 9–15–64, Cl. 324—7.
Cartiera Di Cairate S.p.A.: *See*—
Ghisoni, Pietro. 3,146,655.
Carton, Pierre, M. Jean, and E. L. Garon, to Societe Chimique de la Grande Paroisse, Azote et Produits. Method for converting hydrocarbons. 3,120,431, 2–4–64, Cl. 48—196.
Cartwright, Horace A. Spray nozzle. 3,132,809, 5–12–64, Cl. 239—569.
Cartwright, Leonard C., to Foster D. Snell, Inc. Process for decortication of convoluted nut kernels. 3,118,477, 1–21–64, Cl. 146—233.
Cartwright, Robert B., to Chicago Carton Co. Popcorn. 3–144,194, 8–11–64, Cl. 229—51.
Cartwright, Theodore R., to J. M. Donnelly. Electrode holder. 3,140,386, 7–7–64, Cl. 219—138.
Carty, David G.: *See*—
Beatty, Milton R. 3,124,664.
Carus Chemical Co., Inc.: *See*—
Dane, Willis H. 3,139,060.
Carus, Franklin V., to Baker Perkins Inc. Stripping conveyor apparatus for handling stacks or bun pans and the like. 3,116,822, 1–7–64, Cl. 198—21.
Caruso, William J., H. N. Hoffman, and S. Neal, to General Electric Co. Automatic balancing apparatus. 3,149,502, 9–22–64, Cl. 74—573.
Carvalho, Carlos A. B.: *See*—
Slavin, Michael, and Carvalho. 3,119,966.
Carver, August B., to United States of America, Navy. Connector for semi-rigid coaxial cable. 3,117,357, 1–14–64, Cl. 24—126.
Carver, Richard: *See*—
Smith, James, Lohr, and Carver. 3,160,983.
Carver, Roy J., to Bandag Inc. Method and bonding agent for retreading pneumatic tire casings. 3,136,673, 6–9–64, Cl. 156—96.
Carvill, Richard E., to Bird Machine Co. Sectional doctor blade holder. 3,122,767, 3–3–64, Cl. 15—236.
Carwil Enterprises, Inc.: *See*—
Bollum, Carl W., Sr. 3,153,461.
Cary, Donald S., W. F. Parsons, and E. Carnall, to Eastman Kodak Co. Infrared lens cement. 3,157,521, 11–17–64, Cl. 106—47.
Cary, Frederick C., to Canadian General Electric Co., Ltd. Index indicator for plug-in units. 3,155,862, 11–3–64, Cl. 313—109.5.
Cary, Henry H., and R. C. Hawes, to Applied Physics Corp. Spectrophotometer pulse amplitude ratio measuring means with feedback amplifier for noise and drift compensation. 3,131,349, 4–28–64, Cl. 324—140.
Casablancas High Draft Co. Ltd.: *See*—
Noguera, Joseph. 3,126,586.
Casale, Antonio: *See*—
Natta, Giulio, Mazzanti, Dall'Asta, and Casale. 3,136,746.
Casale, Ernest R. Transmission. 3,154,047, 10–27–64, Cl. 115—34.

Casale, Salvatore A., and G. G. Joris, to Allied Chemical Corp. Activation of hydrocarbon conversion catalysts. 3,135,726, 6–2–64, Cl. 260—94.9.
Casas, Robert, to Mefina S.A. Regulating mechanism for a sewing machine. 3,149,592, 9–22–64, Cl. 112—210.
Casas-Campillo, Carlos, to Syntex Corp. Process for cyclopentanophenanthrene derivatives. 3,118,822, 1–21–64, Cl. 195—51.
Casas-Campillo, Carlos, to Syntex Corp. Process for 11-hydroxylation of steroids. 3,119,748, 1–28–64, Cl. 195—51.
Casas-Campillo, Carlos, to Syntex Corp. Process for the production of 11α-hydroxylation steroids with Panaeolus. 3,149,050, 9–15–64, Cl. 105—51.
Cascade Corp.: *See*—
Farmer, Stanley E., Faust, and Weinert. 3,145,866.
Cascade Mfg Co.: *See*—
Farmer, Stanley E., and Weinert. 3,116,812.
Faust, Donald M., and Wight. 3,127,209.
Richards, John A. 3,163,120.
Caschome Co. Inc.: *See*—
Mintz, Arthur L. 3,122,397.
Casciari, Raoul J., to Corning Glass Works. Television picture tube envelope. 3,130,854, 4–28–64, Cl. 220—2.1.
Casco Products Corp.: *See*—
Fenn, Lawrence E. 3,127,666.
Horwitt, Laurence G. 3,161,754.
Case, J. I., Co.: *See*—
Baker, Donald C. 3,125,239.
Miller, Charles D. 3,156,124.
Mischel, Gordon J., and Kousek. 3,153,504.
Case, John M.: *See*—
Dowdall, John F., and Case. 3,136,636.
Case, John S., to Anchor Post Products, Inc. Board fence including method of securing board members to line and/or corner post. 3,120,376, 2–4–64, Cl. 256—24.
Case, John S., to Anchor Post Products, Inc. Privacy fence. 3,136,530, 6–9–64, Cl. 256—24.
Case, John S., to Anchor Post Products, Inc. Pressure die for wire drawing. 3,145,832, 8–25–64, Cl. 205—25.
Case, Laura E., to Union Carbide Corp. Arc promoted chemical reactions. 3,121,675, 2–18–64, Cl. 204—171.
Case, Richard Y., to United States Rubber Co. Track for track-laying vehicles. 3,118,709 1–21–64, Cl. 305—37.
Case, Richard Y., to United States Rubber Co. Belt and belt-pulley drive. 3,151,491, 10–6–64, Cl. 74—229.
Case, Robert O., Jr., to North American Aviation, Inc. Clutter minimizer for monopulse radar. 3,128,461, 4–7–64, Cl. 343—16.
Case, Woodrow W., to Be-Mo Machine Co. Apparatus for applying seasoning to potato chips. 3,152,010, 10–6–64, Cl. 118—24.
Casella, Francesco. Anchoring device comprising radially expansible arms slidable within an open shell. 3,132,555, 5–12–64, Cl. 85—2.4.
Casey, Austin T. and F. E. Fluid ejector valve. 3,148,694, 9–15–64, Cl. 137—203.
Casey, Carl: *See*—
Poole, Foster M., and Westerheim. 3,145,564.
Casey, Clifford F.: *See*—
Carriere, Maurice M., Casey, Ervine, Hamil, Schimpf, Smith, and Turner. 3,123,959.
Casey, Edward J., and J. C. Sofianek, to General Electric Co. Tripping arrangement for an electric circuit breaker. 3,155,879, 11–3–64, Cl. 317—32.
Casey, Frank E.: *See*—
Casey, Austin T. and F. E. 3,148,694.
Casey, Joseph J., and J. W. Berhman, to Amalgamated Growth Industries, Inc. Method of producing titanium. 3,123,464, 3–3–64, Cl. 75—10.
Casey, Robert T., to General Electric Co. Circuit breaker panelboard. 3,155,882, 11–3–64, Cl. 317—119.
Casey, Walter P., to Pier, Inc. Tank filling apparatus. 3,162,218, 12–22–64, Cl. 141—72.
Cash, A. W., Valve Mfg. Corp.: *See*—
Terry, Charles M. 3,143,126.
Cash, Burns A., to United States of America, Air Force. Metering device for molten metal. 3,128,912, 4–14–64, Cl. 222—52.
Cash, Burns A., to United States of America, Air Force. Rolling machine for forming centerless rolled blankets. 3,158,334, 11–24–64, Cl. 242—54.4.
Cash, Carl G., A. J. Hoiberg, and W. L. Butterfield, to The Flintkote Co. Material for lining canals and ditches. 3,160,512, 12–8–64, Cl. 117—25.
Cash, David R., to James Cash Machine Co. Drive mechanism for quilting machines. 3,127,858, 4–7–64, Cl. 112—118.
Cash, James A., Jr., to American Bedding Machine Co. Means for making mattress border panels with welted edges. 3,160,124, 12–8–64, Cl. 112—2.
Cash, James, Machine Co.: *See*—
Cash, David R. 3,127,858.
Cashman, Robert W., and A. Wasco, Jr., to Saginaw Machine and Tool Co. Chucking apparatus. 3,149,852, 9–22–64, Cl. 279—4.
Casini, Vittorio, to Piaggio & C.S.p.A. Two-stroke-cycle engine with an admission port in the crankcase at the periphery of the cranks of the drive shaft. 3,123,059, 3–3–64, Cl. 123—73.
Caskie, William T., to American Cyanamid Co. Palletizing machine. 3,143,222. 8–4–64, Cl. 214—6.
Casler, Roger H.: *See*—
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Cason, Garland, to California Research Corp. Flow target for well control apparatus. 3,156,261, 11–10–64, Cl. 137—800.
Cason, Louis F., and P. H. Seay, to Tuskegee Institute. 1-(2-thenyl)-2-di-lower alkylaminoethyl diphenylacetate and related compounds. 3,122,561, 2–25–64, Cl. 260—332.2.
Casper, Lee A.: *See*—
Berman, Jacob, Casper, and Weiss. 3,152,697.
Caspers, James W., to United States of America, Navy. Sequential signal detector. 3,145,379, 8–18–64, Cl. 343—5.
Caspers, James W., and R. A. Worley, to United States of America, Navy. Modification of sequential detectors for parallel operation. 3,153,231, 10–13–64, Cl. 343—5.
Cass, James L.: *See*—
Bible, Robert E., Braun, Cass, McIntyre, and Williamson. 3,155,816.
Cass, Lester E. Apparatus for controllably varying the elevation and angle of thrust of outboard motor propellers. 3,116,710, 1–7–64, Cl. 115—41.
Cassano, James R., and W. E. Fritz, to General Motors Corp. Rotary electromagnet construction. 3,152,290, 10–6–64, Cl. 317—197.
Cassells, Melvin K. Container support clip. 3,155,360, 11–3–64, Cl. 248—313.
Cassen, Benedict: *See*—
Reed, Clifton W., and Cassen. 3,135,865.
Cassen, Benedict, and I. Ross, to Hycon Mfg. Co. Gamma ray scintillation detectors with light conducting rods for reactor hot spots. 3,138,709, 6–23–64, Cl. 250—71.5.
Cassidy, James P. Tool holder. 3,136,031, 6–9–64, Cl. 29—97.
Cassidy, Paul C.: *See*—
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Cassidy, Peter P. Book and magazine holder. 3,140,558, 7–14–64, Cl. 45—85.
Cassiers, Paul M.: *See*—
Ghys, Theofiel H., Noe, Cassiers, and Nys. 3,148,982.
Cassiers, Paul M., and R. M. Hart, to Gevaert Photo Producten N.V. Electrophotographic material. 3,131,060, 4–28–64, Cl. 96—1.
Cassiers, Paul M., and J. F. Willems, to Gevaert Photo-Production N.V. Electrophotographic material. 3,140,946, 7–14–64, Cl. 96—1.
Cassiers, Paul M., and R. M. Hart, to Gevaert Photo-Producten N.V. Electrophotographic material. 3,155,503, 11–3–64, Cl. 96—1.
Cassiers, Paul M., J. M. Nys, and J. F. Willems, to Gevaert Photo-Producten N.V. Electrophotographic material. 3,158,475, 11–24–64, Cl. 96—1.
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Casson, Nicholas V. Saw guide for cutting flexible conduit. 3,129,000, 4–14–64, Cl. 269—2.
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Cobler, Homer H. 3,124,810.
Cast Iron Soil Pipe Institute: *See*—
Widman, Michael U. 3,159,414.
Cast, John C., and O. G. Winslow, to United States of America, Atomic Energy Commission. Wax jet shutter. 3,133,485, 5–19–64, Cl. 95—53.
Castedello, William, and W. K. Bender, to The Kalart Co. Inc. Apparatus for projecting and editing motion picture film. 3,138,057, 6–23–64, Cl. 88—16.
Castedello, William, and W. K. Bender, to The Kalart Co. Inc. Motion picture film projector and editor. 3,159,841, 12–1–64, Cl. 352—104.
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Roberts, Russell R., and Castellana. 3,136,177.
Castellanos, Alfonso. Game carrier. 3,124,285, 3–10–64, Cl. 224—7.
Castelli, Charles, to Johnson & Johnson. Container for hypodermic needle. 3,149,717, 9–22–64, Cl. 206—43.
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Caster, Forrest F. Children's play table. 3,127,170, 3–31–64, Cl. 272—33.
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Castle, Alfred B.: *See*—
Bryson, Henry K., Castle, and Juten. 3,163,452.
Castle, James B., Jr. Hydraulically powered shear machine. 3,121,364, 2–18–64, Cl. 83—529.
Castle, James B., Jr., E. W. Pearson, and R. A. Richardson, said Pearson and Richardson assors. to Pacific Industrial Mfg. Co. Vane type pump. 3,153,384, 10–20–64, Cl. 103—120.
Castle, John E., to E. I. du Pont de Nemours, and Co. Dispersions of organic dyes and pigments in fluoroalcohols. 3,129,053, 4–14–64, Cl. 8—93.
Castle, Richard D., and S. Papalia, to Wilmot Castle Co. Closure apparatus for pressure chamber. 3,147,068, 9–1–64, Cl. 21—98.
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Leas, Arnold M., Casto, Haile, and Sutton. 3,146,186.
Caston, Arthur H., and D. Cox. Agricultural thinning devices. 3,130,795, 4–28–64, Cl. 172—109.
Castor, Edwin C., Sr. Cutting tool. 3,117,366, 1–14–64, Cl. 29—103.

Castor, Wilbur W. Stirrer. 3,128,084, 4–7–64, Cl. 259—134.
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Cataldi, Marai S., J. Pahn, and O. L. Galmarini, to Olin Mathieson Chemical Corp. Gerobriecin. 3,159,541, 12–1–64, Cl. 167—65.
Cataldo, Roy S., to General Motors Corp. Corona ignition device. 3,149,620, 9–22–64, Cl. 123—148.
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Hyman, Joseph B., Kordzinski, and Bills. 3,131,157.
Kordzinski, Stanley, Yurcick, and Mitchell. 3,151.096.
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Dorsa, Frank J., Palermo, and Catalina. 3,134,413.
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Fleming, Harold W., and Gutmann. 3,152,193.
Catamaran Corp.: *See*—
Eash, George H. 3,154,956.
Catania, Edward J. Bunsen burner shield guard and reflector. 3,158,147, 11–24–64, Cl. 126—86.
Catania, Salvatore J. Hair curler. 3,141,464, 7–21–64, Cl. 132—41.
Cataphote Corp.: *See*—
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Searight, Charles E., Smalley, and Robinson. 3,138,444.
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Baer, Benjamin P., and Herr. 3,130,806.
Beck, Henry E. 3,122,247.
Berchtold, Joseph E., King, Madson, Nordling, and Ramsel. 3,137,182.
Bordeaux, Henry D., Gideonsen, Hasselbacher, and Jass. 3,153,866.
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Cadwell, Wilfred C., Oberlander, and Wright. 3,154,958.
Campbell, Trevor G., and Hunger. 3,122,248.
Carter, John W. 3,144,723.
Carter, John W., and Costa. 3,130,805.
Carter, John W., Rollins, and Guhl. 3,150,855.
Clark, Ansel R., Loyd, and Oberle. 3,138,863.
Clark, Murl W., Mason, and Roberts. 3,148,787.
Cobb, Delwin E. 3,121,964.
Costa, Philip J., Bowen, and Babbitt. 3,138,970.
Cummins, Curtis F. 3,136,389.
Dreesen, Glen E., and Evans. 3,150,650.
Evans, Lawton P., and Probert. 3,150,814.
Freedy, Allan L., and McIndoo. 3,122,246.
Golden, Louis D. 3,143,628.
Grim, George B. 3,155,084.
Hein, Allyn J., and Junck. 3,138,884.
Hein, Allyn J., and Scheidt. 3,127,688.
Junck, John A., Rice, and Winters. 3,150,568.
Junck, John A., and Scheidt. 3,154,921.
Kammueller, Edwin J., and Partridge. 3,145,805.
Kempf, Dennis D., Rohweder, and Shoemaker. 3,138,-966.
Lenz, Walter H. 3,122,625.
Lohbauer, Kenneth R. 3,142,962.
Lohbauer, Kenneth R., and Scheidt. 3,150,685.
Miller, Robert H., and Parks. 3,159,036.
Muellner, Donald R., and Muntjanoff. 3,155,252.
Parks, John H. 3,145,702.
Parks, John H., and Wellwood. 3,145,624.
Rehberg, Thomas R., Robinson, and Hufeld. 3,158,944.
Reinsma, Harold L. 3,158,923.
Rohweder, Gerald D., and Shoemaker. 3,137,311.
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Cates, Dafford D. Garment hanger with latch released jaws. 3,152,737, 10–13–64, Cl. 223—96.
Cates, William E. Bottle cap. 3,161,312, 12–15–64, Cl. 215—46.
Cathers, Lincoln D., and J. Bader. Hydrofoil assisted air cushion boat. 3,141,436, 7–21–64, Cl. 114—66.5.
Catino, Sigmund C.: *See*—
Strobel, Albert F., and Catino. 3,149,146.
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Stansbury, Harry A., Jr., Durden, and Catlette. 3,124,596.
Stansbury, Harry A., Jr., Durden, and Catlette. 3,161,651.
Catlin, Kenneth G. Cassette unloading and reloading machine. 3,150,263, 9–22–64, Cl. 250—66.
Catlin, Robert T., A. J. Landa, R. J. Service, and R. O. Swain, to Remington Arms Co., Inc. Explosively actuated hole punching and shaping tool. 3,126,630, 3–31–64, Cl. 30—358.
Catling, Harold: *See*—
Benson, William, and Catling. 3,149,451.
Linnert, Arthur, Catling, and De Barr. 3,141,202.
Catling, Harold, A. E. De Barr, and A. Linnert, to The Cotton Silk and Man-Made Fibres Research Association. Material thickness detection means for scutchers and like machines. 3,137,040, 6–16–64, Cl. 19—97.5.
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Cator, Edward J., to Crawford Fitting Co. Tube fitting for large diameter tubing. 3,134,615, 5–26–64, Cl. 285—341.
Cator, Edward J., to Bausch & Lomb Inc. Bearing assembly. 3,145,065, 8–18–64, Cl. 308—6.
Cattafi, Michael, Jr.: *See*—
Cattafi, Michael, Sr. and M. Cattafi, Jr. 3,149,616.
Cattafi, Michael, Sr. and M. Cattafi, Jr. Safety attachment for steam boilers. 3,149,616, 9–22–64, Cl. 122—504.
Cattermole, Kenneth W., to International Standard Electric Corp. Communication system employing phase shifters and quantizers to reduce noise. 3,161,828, 12–15–64, Cl. 325—42.
Cattermole, Kenneth W., and J. C. Price, to International Standard Electric Corp. Transfer circuits using saturable magnetic cores. 3,162,843, 12–22–64, Cl. 340—174.
Catterson, Robert K., to Briggs & Stratton Corp. Internal combustion engine governor. 3,149,618, 9–22–64, Cl. 123—108.
Catterson, Thomas V. Anti-fogging mirror. 3,160,736, 12–8–64, Cl. 219—219.
Catto, Kenneth A., to Code-A-Phone Electronics, Inc. Combination bias oscillator, mixer and recording amplifier. 3,133,160, 5–12–64, Cl. 179—100.2.
Cauble, Richard E.: *See*—
Pickering, Thomas A., and Cauble. 3,148,286.
Cauchetier, Jacques, to Societe Nouvelle de Metallisation. Metal sprayers. 3,141,616, 7–21–64, Cl. 239—81.
Cauchois, Antonin M. L. Apparatus for cutting out lateral cores. 3,148,740, 9–15–64, Cl. 175—78.
Caughey, John M., to Stubnitz Greene Corp. Frame attachment foot structure for cushion spring elements. 3,127,159, 3–31–64, Cl. 267—110.
Caughey, John M., to Stubnitz Greene Corp. Terminal connections for linear spring elements. 3,156,461, 11–10–64, Cl. 267—110.
Caunt, Alan, to Metalastik Ltd. Method of assembling rubber bush units. 3,127,673, 4–7–64, Cl. 29—450.
Causse, Jean-Pierre: *See*—
Goodman, Clark H., and Causse. 3,142,756.
Caussignac, Gilbert. Watch with a common mechanism for winding the watch and setting the hands thereof. 3,120,-096, 2–4–64, Cl. 58—63.
Cauvin, André, to Simca Automobiles. Internal combustion engines. 3,138,148, 6–23–64, Cl. 123—119.
Cavalier Corp.: *See*—
Payne, Harry R. 3,117,663.
Cavalla, John F.: *See*—
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Cavalla, John F., to Parke, Davis & Co. 1-propargyl-2-methyl - 3 - phenyl - 3-propionyloxy-pyrrolidines. 3,136,779, 6–9–64, Cl. 260—326.3.
Cavalla, John F., to Parke, Davis & Co. 1,3-dialkyl-3-oxyphenylpyrrolidine compounds. 3,149,123, 9–15–64, Cl. 260—326.3.
Cavalla, John F., and R. A. Selway, to Parke, Davis & Co. 1-[(omega oxy-lower alkyl)]-2-methyl-3-phenyl-3-propionyloxy-pyrrolidines. 3,136,778, 6–9–64, Cl. 260—326.3.
Cavalla, John F., and R. A. Selway, to Parke, Davis & Co. N-(p-amino phenethyl)-and N-(p-nitrophenethyl)-2-methyl-3-phenyl-3-propionlyoxypyrrolidines. 3,144,463, 8–11–64, Cl. 260—326.3.
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Cavallini, Guido, and E. Massarani, to Francesco Vismara, S.p.A. Diarylamino-acetyl-aryl derivatives. 3,143,568, 8–4–64, Cl. 260—518.
Cavallini, Guido, and E. Massarani, to Francesco Vismara S.p.A. Benzoylmethyleneiminobenzoic acid derivatives. 3,150,170, 9–22–64, Cl. 260—518.
Cavallini, Guido, E. Massarani, and P. Mantegazza, to Francesco Vismara S.p.A. Aryl dihalogenacetyl derivatives. 3,150,187, 9–22–64, Cl. 260—592.
Cavanagh, Patrick E., to Premium Iron Ores Ltd. Method of preparing metamorphosed iron ores for concentration. 3,148,838, 9–15–64, Cl. 241—14.
Cavanagh, Patrick E., and C. W. Hedberg, to Research-Cottsell, Inc. Apparatus for separating magnetic susceptible particles. 3,133,015, 5–12–64, Cl. 209—39.
Cavanagh, Raymond L., and A. J. Last, to Ontario Research Foundation. Method of liberating silica from iron ore. 3,163,518, 12–29–64, Cl. 75—1.
Cavanaugh, Daniel J., to F. H. Buffinton Co., Inc. Hinged box construction. 3,145,871, 8–25–64, Cl. 220—31.

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Kuris, Arthur, and Balamuth. 3,123,951.
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Cefaly, Ralph, to Taylor Instrument Co.'s. Multiple headed acoustic stethoscope. 3,124,211, 3–10–64, Cl. 181—24.
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Denyes, Russell O. 3,154,610.
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Kamlet, Jonas. 3,157,511.
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Shoup, John R. 3,133,709.
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Troeleman, Adriaan J., and Delagrange. 3,151,011.
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Celano, Peter J., and E. G. Marcmann, to United Foam & Plastics Industries. Laminating apparatus. 3,124,835, 3–17–64, Cl. 18—4.
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Celovsky, Michael J. Method and apparatus for manufacturing dies and rolls. 3,148,446, 9–15–64, Cl. 29—557.

Celovsky, Michael J. Method and apparatus for making dies and rolls. 3,149,218, 9–15–64, Cl. 219—69.

Celovsky, Michael J. Apparatus for manufacturing tube reducing dies and rolls and the like. 3,149,219, 9–15–64, Cl. 219—69.

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Cenci, Harry J., to Rohm & Haas Co. Process for preparing fluorinated dinitriles. 3,154,573, 10–27–64, Cl. 260—465.7.

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Benton, Robert C. 3,156,983.
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Mauvernay, Roland-Yves. 3,160,558.

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Century Products, Inc. : *See*—
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Cepuch, Robert A., and G. W. Koger., to Electronic Engineering Co. of California. Protective electrical network. 3,134,033, 5–19–64, Cl. 307—88.5.

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Cerasani, Americo J., J. J. Codichini, M. Davis, and W. G. Lewis, to Xerox Corp. Xerographic apparatus. 3,135,179, 6–2–64, Cl. 95—1.7.

Cerasani, Americo J., J. J. Codichini, M. Davis, and W. G. Lewis, to Xerox Corp. Xerographic apparatus. 3,135,180, 6–2–64, Cl. 95—1.7.

Ceravolo, Philip J. Jig for locating cabinet latch components or the like. 3,144,719, 8–18–64, Cl. 33—194.

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Ceyzeriat, Louis F., and G. L. Pagni, to Societe des Usines Chimiques-Rhone-Poulenc. Water curable organopolysiloxanes containing silicic esters and zirconic or titanic esters. 3,151,099, 9–29–64, Cl. 260—46.5.

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Chabassier, Roger, G. Dupuy, B. Lerouge, and J. Megret. Self-contained loop for studying materials under irradiation in a swimming pool reactor. 3,144,392, 8–11–64, Cl. 176—12.

Chaboche, Miguel, to Remy, Pierre, & Cie, Etablissements. Stoppers for containers. 3,128,900, 4–14–64, Cl. 220—54.

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Chacon, Rafael R. Sugar cane raw juice clarifier. 3,140,200, 7–7–64, Cl. 127—13.

Chadbourne, Glenn A. Denture plate cleaning cup. 3,149,-358, 9–22–64, Cl. 15—21.

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Chadburn, Robert A., W. H. Divine, and W. R. Zahn, to Borg-Warner Corp. Heat-exchangers. 3,147,799, 9–8–64, Cl. 165—86.

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Chadwick, Cecil G., to Union Carbide Corp. Process for producing a metal case. 3,127,283, 3–31–64, Cl. 117—106.
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Bentkowsky, Jerome, Chadwick, and Williams. 3,133,520.
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Chaffee, Lester, and R. E. Blomquist, to Sundstrand Corp. Machine tool. 3,119,305, 1–28–64, Cl. 90—11.62.
Chalet, Louis, to Merck & Co., Inc. Elution of vitamin B_{12} from carboxylic resins with aqueous alkalies. 3,163,637, 12–29–64, Cl. 260—211.5.
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Hudis, Michael I. 3,137,219.
Johnston, William F. 3,147,221.
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Pearson, Nels E. 3,119,276.
Rudolph, Richard O. 3,135,128.
Sorenson, Gerald T. 3,144,280.
Chain, Ernst B., C. Bonino, and A. Tonolo, to Societa Farmaceutici Italia. Alkaloid derivatives of lysergic acids. 3,162,640, 12–22–64, Cl. 260—285.5.
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Morris, John M. 3,161,483.
Chairge, Peter M.: *See*—
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Chalfon, Chaim: *See*—
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Chalkley, Lyman. Photosensitive combination of cellulose with a hydrophobic dye cyanide and process for making it. 3,122,438, 2–25–64, Cl. 96—90.
Chall, Harold J., to Friden, Inc. Multiplier control mechanism for a short cut multiplication machine. 3,145,923, 8–25–64, Cl. 235—60.
Challender, Ronald S.: *See*—
Griffiths, Jack J., and Challender. 3,127,046.
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Swarthout, Rassele E. 3,143,398.
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Brennan, George A., and Prichard. 3,161,418.
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Taggart, Percy R. 3,145,057.
Chalmers, John W., C. T. Hall, and W. A. Roffey, to Molins Machine Co. Ltd. Compressing of cigarettes for packing. 3,118,455, 1–21–64, Cl. 131—107.
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Chalmers, Thomas M., A. Frankel, and H. R. M. Craig, to Richardson, Westgarth & Co. Multi-stage flash evaporation with heat recovery. 3,146,177, 8–25–64, Cl. 202—160.
Chaloka, Andrew, to L. J. Wing Mfg. Co., Division of Aero-Flow Dynamics, Inc. Damper securing means. 3,156,446, 11–10–64, Cl. 251—298.
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Chamay, Anthony J., to United Aircraft Corp. Clustered rocket nozzles. 3,127,740, 4–7–64, Cl. 60—35.6.
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Chamberlain, William H., and H. E. Maseck, to United States of America, Atomic Energy Commission. Cryogenic dewar. 3,119,238, 1–28–64, Cl. 62—54.
Chamberlin, Coleman R. One-time use plastic lock. 3,149,869, 9–22–64, Cl. 292—320.
Chamberlin, Donald W., to FMC Corp. Fruit preparation machine. 3,137,383, 6–16–64, Cl. 198—33.
Chamberlin, John M., to United States of America, Navy. Flood valve assembly. 3,117,517, 1–14–64, Cl. 102—13.
Chamberlin, Odgen. House trailer leveling indicator. 3,146,529, 9–1–64, Cl. 33—207.
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Jordan, Wendell M., Sr. 3,142,504.
Chamberlin, Rhodes R.: *See*—
Hill, James E., and Chamberlin. 3,148,084.
Chamberlin, Robert S., to United States of America, Army. Missile instrumentation protection means. 3,149,569, 9–22–64, Cl. 102—92.5.
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Chambers, Arthur E. Suture cutter. 3,151,392, 10–6–64, Cl. 30—240.
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Chambers, Isaac M., to Henry Miller Spring and Mfg. Co. Retractable holding means for squaring flat end of spring stock on coiling machine. 3,139,136, 6–30–64, Cl. 153—67.
Chambers, Jack A., and L. A. Woodson, to W. S. Shamban & Co. Continuous sheet extrusion apparatus. 3,119,148, 1–28–64, Cl. 18—12.
Chambers, John T.: *See*—
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Chambers, Ren W., to Temptron Corp. Method of and means for recovering metals from their ores. 3,163,591, 12–29–64, Cl. 204—108.
Chambers, Robert B., to Belt-Scales Corp. Conveyor scale and recorder. 3,155,181, 11–3–64, Cl. 177—16.
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Chambers, Vaughan C., Jr., and J. D. Overman, to E. I. du Pont de Nemours and Co. Photographic silver halide emulsions and elements containing a polyfructose. 3,137,575, 6–16–64, Cl. 96—95.
Chambers, Wallace M., and L. W. Berlin. Newspaper collator. 3,127,163, 3–31–64, Cl. 270—57.
Chambers, William J., to E. I. du Pont de Nemours and Co. Bis(fluoroalkylidene)azines and process of preparation. 3,117,996, 1–14–64, Cl. 260—566.
Chambers, William J., to E. I. du Pont de Nemours and Co. Process for preparing tetrakis (dimethylamino) ethylene. 3,141,906, 7–21–64, Cl. 260—583.
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Chambon, Carl M. Shirt decorating device. 3,151,332, 10–6–64, Cl. 2—128.
Chambon, Jacques, and R. Viguie, to Commissariat a l'Energie Atomique. Supporting frame for circuit plate. 3,150,906, 9–29–64. Cl. 339—45.
Chambon, Louis J., to Societe d'Etudes de Machines Speciales. Counter controlled rotary printer. 3,139,025, 6–30–64, Cl. 101—92.
Chambon, Louis J., to Societe d' Etudes de Machines Speciales, Societe Anonyme. Devices for automatically preadjusting the different elements of a printing machine. 3,152,542, 10–13–64, Cl. 101—181.
Chambon, Louis J., to Societe d'Etudes de Machines Speciales. Thread cutting device. 3,159,070, 12–1–64, Cl. 83—321.
Chambran, Jacques, to Pechiney, Compagnie de Produits Chimiques et Electrometallurgiques. Stacking ingots and stack formed of same. 3,161,477, 12–15–64, Cl. 29—184.
Chambret, Remy F., to Societe Rhodiaceta. Production of terephthalic acid. 3,120,561, 2–4–64, Cl. 260—515.
Chamer, Ernest S., to Handy & Harman. Brazing compositions. 3,149,007, 9–15–64, Cl. 148—24.
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Champ, Roger, to La Societe des Produits Semi-Conducteurs. Production of tellurium. 3,158,443, 11–24–64, Cl. 23—209.
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Champagnat, Alfred, to The British Petroleum Co. Ltd.. Fuel oil composition having reduced pour point. 3,132,008, 5–5–64, Cl. 44—66.
Champe, William F. Distillation apparatus for converting salt water into fresh water. 3,163,587, 12–29–64, Cl. 202—176.
Champion, Cuthbert L., to Pickford Experimental Co. Ltd. Rotary 3-way helical valve. 3,136,339, 6–9–64, Cl. 137—637.3.
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Champion, Thomas: *See*—
Beattie, William C., Champion, and Prowse. 3,130,773.
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Carter, Vincent A. 3,160,919.
Fischer, Paul E., Heatley, and Lambert. 3,155,379.
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Champlin, Charles L., and R. J. Hickin, to Packaging Corp. of America. Shipper carton and package. 3,162,302, 12–22–64, Cl. 206—46.
Champlin, David L., and J. S. Pollock, to Eastman Kodak Co. Light-lock and severing mechanism. 3,132,573, 5–12–64, Cl. 95—31.
Chan, Andre D. H., and Roger-Emile Lambert, to Compagnie de Saint-Gobain. Apparatus for tempering glass. 3,119,-680, 1–28–64, Cl. 65—349.
Chan, Frank L. Spherical goniometer head and adapter. 3,160,748, 12–8–64, Cl. 250—51.5.
Chanaryn, Victor, to Wilmot-Breeden Ltd. Handle assemblies. 3,148,905, 9–15–64, Cl. 292—336.3.
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Van Name, Joseph M., and Zimmerman. 3,158,224.
Chance, Leon H., to United States of America, Agriculture. N,N′-ethylene bis[p,p-bis(1-aziridinyl)-N-methyl phosphinic amide] and homopolymer thereof. 3,146,288, 8–25–64, Cl. 260—239.
Chance, William E., to C. W. Cheney & Son Ltd. Luggage fittings. 3,157,419, 11–17–64, Cl. 292—281.
Chancellor, Charles W., Jr. Seat with auxiliary back rest having single pivot spring assembly. 3,137,524, 6–16–64, Cl. 297—284.
Chancellor, Forrest E. and R. O. Well casing releasing coupling. 3,131,766, 5–5–64, Cl. 166—153.
Chancellor, Forrest E. and R. O. Stage collar. 3,131,767, 5–5–64, Cl. 166—154.
Chancellor, Forrest E. and R. O. Apparatus for installing and cementing in place a large diameter well casing with the upper end deep beneath the ground surface. 3,131,768, 5–5–64, Cl. 166—181.
Chancellor, Forest E. and R. O. Apparatus for completing a well. 3,153,451, 10–20–64, Cl. 166—51.
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Chancellor, Forrest E. and R. O. 3,131,767.
Chancellor, Forrest E. and R. O. 3,131,768.
Chancellor, Forest E. and R. O. 3,153,451.
Chancellor, Forest E. and R. O. 3,153,547.
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Chandler, Fred W. Work holding device for pipe fitting or the like. 3,148,873, 9–15–64, Cl. 269—71.
Chandler, Ollie W., to Commercial Solvents Corp. Process for the production of cyclohexanone oxime. 3,153,091, 10–13–64, Cl. 260—566.
Chandler, Ollie W., to Commercial Solvents Corp. Purification of caprolactam. 3,156,683, 11–10–64, Cl. 260—239.3.
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Chandler, James F., to Zenith Radio Corp. Color television convergence circuit. 3,141,109, 7–14–64, Cl. 315—22.
Chandler, James H. Newspaper storage and baling rack. 3,129,819, 4–21–64, Cl. 211—50.
Chandler, Jasper S., to Eastman Kodak Co. Shuttle, gate, and position pin assembly for motion picture film printers. 3,128,027, 4–7–64, Cl. 226—57.
Chandler, Ollie W., to Commercial Solvents Corp. Process for the purification of nitrocyclohexane. 3,132,183, 5–5–64, Cl. 260—644.
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Chandrasekhar, Bellur S., to Westinghouse Electric Corp. Zone refining process. 3,117,859, 1–14–64, Cl. 75—10.
Chaney, Albert L. Reagents and analysis of nitrogen. 3,119,751, 1–28–64, Cl. 195—103.5.
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Chang, Henry M. Beverage container. 3,134,530, 5–26–64, Cl. 229—7.
Chang, Kern K. N., to Radio Corp. of America. Traveling wave semiconductors amplifier and converter. 3,119,074, 1–21–64, Cl. 330—5.
Chang, Kern K. N., to Radio Corp. of America. Frequency converter. 3,125,725, 3–17–64, Cl. 325—449.
Chang, Kern K. N., to Radio Corp. of America. Negative conductance diode amplifier. 3,127,567, 3–31–64, Cl. 330—34.
Chang, Kern K. N., to Radio Corp. of America. Electron tube generating oppositely directed radially-displaced beams. 3,140,420, 7–7–64, Cl. 315—3.6.
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Chanko, Mortimer L. Conversion of twin beds to a double bed. 3,157,889, 11–24–64, Cl. 5—352.
Chanlund, Carl W. Tamping mechanism. 3,161,935, 12–22–64, Cl. 25—37.
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Heim, Lewis R. 3,123,413.
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Chao, Shih C., to International Business Machines Corp. Magnetic counter. 3,143,726, 8–4–64, Cl. 340—174.
Chapdelaine, Louis P. Telescopic chute. 3,157,262, 11–17–64, Cl. 193—10.
Chapellier, Robert A., to Burns and Roe, Inc. Billet handling apparatus. 3,144,139, 8–11–64, Cl. 214—1.
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Abramo, John G., Chapin, and Garner. 3,143,569.
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Chapin, Earl C., and A. Y. Garner, to Monsanto Co. Phosphine oxide polymers. 3,158,642, 11–24–64, Cl. 260—465.
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Chaplin, Charles J., to Diamond National Corp. Packing for fragile articles. 3,163,312, 12–29–64, Cl. 217—26.5.
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Chaplin, George F., to Continental Can Co., Inc. Container closure. 3,160,302, 12–8–64, Cl. 215—38.
Chaplin, Harvey R., Jr., to United States of America, Navy. Integrated propulsion system for ram wing aircraft. 3,135,480, 6–2–64, Cl. 244—12.
Chapman, Arthur S., and R. E. Hendrickson, to Hughes Aircraft Co. Tube finning apparatus. 3,163,083, 12–29–64, Cl. 90—11.62.
Chapman, Aurelius F., to E. I. du Pont de Nemours and Co. Adhesive compositions. 3,142,434, 7–28–64, Cl. 229—53.
Chapman, Charles H., to Hercules Powder Co. Aqueous ketene dimer emulsion and use of same for sizing paper. 3,130,118, 4–21–64, Cl. 162—175.
Chapman, Charles S., Jr., to General Motors Corp. Brake system. 3,116,815, 1–7–64, Cl. 188—106.
Chapman Chemical Co.: *See*—
Branch, Robert E., and Reddin. 3,121,608.
Chapman, Christopher L. C., and N. Norris, to Yardney International Corp. Method of welding silver elements. 3,154,847, 11–3–64, Cl. 29—494.
Chapman, Dave, to Mohasco Industries, Inc. Sound insulating apparatus having movable partition. 3,140,564, 7–14–64, Cl. 50—101.
Chapman, Dave, to Mohasco Industries, Inc. Sound insulating material and method of making the same. 3,161,-258, 12–15–64, Cl. 181—33.
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Chapman, Edward B., K. F. Greene, and B. J. Ronkese, to International Business Machines Corp. Deposited magnetic memory array. 3,138,785, 6–23–64, Cl. 340—174.
Chapman, Everett. Weighing devices. 3,151,693, 10–6–64, Cl. 177—234.
Chapman, George C., and L. V. Pfaender, to Owens-Illinois Glass Co. Heated orifice ring and control therefor. 3,160,-492, 12–8–64, Cl. 65—128.

Chapman, James, and R. L. McGinty, to Imperial Chemical Industries Ltd. Process for the manufacture of 1-bromo-1-chloro-2,2,2-trifluoroethane. 3,134,821, 5–26–64, Cl. 260—653.7.
Chapman, James E., to The Garrett Corp. Thermodynamic engine. 3,156,093, 11–10–64, Cl. 60—39.43.
Chapman, James E., and L. D. Bevan, to The Garrett Corp. Non-jamming stop for linear actuators. Re. 25,659, 10–13–64, Cl. 74—424.8.
Chapman, John E., to Dukane Corp. Intercommunication system. 3,142,725, 7–28–64, Cl. 179—1.
Chapman, John L., Jr., and R. P. Loeper, to Western Electric Co., Inc. Method and apparatus for feeding articles. 3,123,543, 3–3–64, Cl. 204—28.
Chapman, Philip W., to American Bosch Arma Corp. Inertial platform. 3,143,892, 8–11–64, Cl. 74—5.34.
Chapman, Ralph, to Wood Processes, Oregon Ltd. Board forming press and method of making board substitutes. 3,126,578, 3–31–64, Cl. 18—4.
Chapman, Richard D., to Monsanto Chemical Co. Production of adiponitrile from a residue of delto-cyano-valeramide. 3,117,155, 1–7–64, Cl. 260—465.2.
Chapman, Richard H., and A. J. Pulos, to Vega Industries, Inc. Frame structure for cabinets and the like. 3,150,903, 9–29–64, Cl. 312—257.
Chapman, Richard M., to North American Aviation, Inc. Ball grinding and lapping machine. 3,133,383, 5–19–64, Cl. 51—117.
Chapman, Robert L., and J. W. Gofman. Detector and alarm ventricular impulses. 3,138,151, 6–23–64, Cl. 128—2.05.
Chapman, Robert L., J. F. Brown, Jr., J. T. Carpenter, and C. M. Wyman, to The Bunker-Ramo Corp. Automatic tutorial system. 3,141,243, 7–21–64, Cl. 35—9.
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Chappell, Story F. Ball follower dispenser. 3,146,919, 9–1–64, Cl. 222—212.
Chappell, Story F. Measured-dose slide valve dispenser. 3,146,923, 9–1–64, Cl. 222—464.
Chappell, Story F. Tiltable measuring dispenser. 3,163,335, 12–29–64, Cl. 222—455.
Chappelow, Cecil C., Jr., and J. T. Goodwin, Jr., to Ethyl Corp. Alkylation of dialkoxymonohalo silanes. 3,160,647, 12–8–64, Cl. 260—448.8.
Chappory, Andrew, to National Biscuit Co. Collapsible cone dispensers. 3,118,565, 1–21–64, Cl. 221—92.
Chapuis, Henri, E. Colombu, P. Granger, and P. M. Pierrat, to Textile and Chemical Research Co., Ltd. Double twist cabling apparatus. 3,121,989, 2–25–64, Cl. 57—58.83.
Charasz, Jerzy G., to Minneapolis-Honeywell Regulator Co. Amplitude stabilized transistor oscillator. 3,134,947, 5–26–64, Cl. 331—109.
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Gagniere, Claude. 3,119,050.
Gagniere, Claude, and Belugou. 3,158,785.
Lefevre, Albert E. 3,132,300.
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Charbonneau, Robert R., to Minnesota Mining and Mfg. Co. Metalized laminate. 3,138,517, 6–23–64, Cl. 161—190.
Charczenko, Walter. Driver for wing-head fasteners. 3,151,512, 10–6–64, Cl. 81—90.
Chardwick, Lee S., II, to Union Carbide Corp. Pressure fed liquid applicator. 3,134,130, 5–26–64, Cl. 15—552.
Charles, Artis E. Universal multi-needle tufting machine. 3,162,155, 12–22–64, Cl. 112—79.
Charles, Maynard G.: *See*—
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Hallett, Galen M., Jr., and Keilen. 3,135,820.
Charlesworth, John G. Violins and like instruments. 3,136,196, 6–9–64, Cl. 84—275.
Charlesworth, William H., to Perfect Circle Corp. Piston ring assembly. 3,138,391, 6–23–64, Cl. 277—140.
Charlin, René G. Rotary electric machines. 3,162,784, 12–22–64, Cl. 310—258.
Charlop, Herbert, to Metco Inc. Flame spray gun construction. 3,148,818, 9–15–64, Cl. 226—176.
Charlot, Lincoln H., Jr., to Minnesota Mining and Mfg. Co. Temperature control trigger employing emitter resistor having value of transistor's base-to-emitter resistance. 3,131,314, 4–28–64, Cl. 307—88.5.
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Charlton, George H., E. Ebdon, and K. D. Harris, to Power Jets (Research and Development) Ltd. Flying control system for aircraft. 3,155,346, 11–3–64, Cl. 244—75.
Charlton, James P. Optical grinding and polishing machine. 3,141,265, 7–21–64, Cl. 51—26.
Charlton, Joseph W., and J. L. Cotsworth. Moldless metal casting process. 3,128,513, 4–14–64, Cl. 22—200.1.
Charlton, Kyle W., C. T. Maxwell, and S. B. Spracklen, to Beckman Instruments, Inc. Gas chromatograph sampling valve. 3,160,015, 12–8–64, Cl. 73—422.
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Chesley, Robert G., to H. J. Hoenselaar. Spiral meat slicer. 3,153,436, 10–20–64, Cl. 146—167.
Chesley, Robert G., to Chesley Industries Inc. Display device for merchandise. 3,161,295, 12–15–64, Cl. 211—49.

Chesne, Andre, to Commissariat a l'Energie Atomique. Process for obtaining plutonium in the form of a concentrated solution. 3,154,377, 10–27–64, Cl. 23—14.5.
Chesnov, Gilbert F. Electrical male connector. 3,124,404, 3–10–64, Cl. 339—34.
Chessin, Hyman, to Van Der Horst Corp. of America. Heat resistant solid structure. 3,153,279, 10–20–64, Cl. 29—420.
Chessin, Hyman, to Van Der Horst Corp. of America. Heat resistant porous structure. 3,161,478, 12–15–64, Cl. 29—191.2.
Chessin, Hyman, and R. A. Seybert, to United States of America, Navy. Dielectric plug for electrical initiation of explosives. 3,120,182, 2–4–64, Cl. 102—28.
Chessin, Hyman, and J. J. J. L. Hilhorst, to Van Der Horst Corp. of America. Method of applying particles to an electrofoam during electroplating. 3,156,632, 11–10–64, Cl. 204—16.
Chessin, Max, to Gray Pharmaceutical Co. Methenamine undecylenate and method of preparation. 3,154,546, 10–27–64, Cl. 260—248.5.
Chessman, Sylvester L., to Morweld Steel Products Corp. Archery bow and method of fabrication. 3,161,189, 12–15–64, Cl. 124—24.
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Chester, Joseph T.: *See*—
Kummerer, Richard A., Den Besten, and Chester. 3,153,-897.
Chetwynd, Earl G.: *See*—
Griffin, Anthony L., and Chetwynd. 3,148,808.
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Cheung, Harry: *See*—
Matsch, Ladislas, Wang, Bekelman, and Cheung. 3,121,-624.
Cheverton, John S., and F. Brouwer, to Canadian Westinghouse Co., Ltd. Photosensitive line tracer scanning head. Re. 25,581, 5–19–64, Cl. 250—202.
Chevillon, Manuel, to United States of America, Navy. Missile launching apparatus. 3,158,124, 11–24–64, Cl. 114—21.
Chevreux, Gerard, and R. Muterel, to The Bendix Corp. Brake proportioning valves. 3,159,433, 12–1–64, Cl. 303—22.
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Brooks, Melvin E., Chew, and Thompson. 3,131,347.
Chew, Norman B., to Freightliner Corp. Tilt hood tractor construction. 3,157,240, 11–17–64, Cl. 180—69.
Chew, Thornton W. Automatic self-guidance system for movable objects. 3,128,061, 4–7–64, Cl. 244—14.
Chew, Wilson W., and W. G. Stewart, to The Anchorage, Inc. Boat rudder with planing angle trim plates. 3,120,829, 2–11–64, Cl. 114—162.
Chiabrandy, Robert E., to United States of America, Army. Gun recoil torque eliminator. 3,126,791, 3–31–64, Cl. 89—42.
Chiang, Franklin C., to International Control Machines. Recirculating adder. 3,155,822, 11–3–64, Cl. 235—173.
Chiapuzio, Anton, Jr., to North American Aviation, Inc. Digital comparator. 3,137,789, 6–16–64, Cl. 235—177.
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Chiarello, Sesto I., to Packard-Bell Electronics Corp. Sonic signal. 3,144,851, 8–18–64, Cl. 116—137.
Chiarugi, Anthony L., to Illinois Tool Works Inc. Twisted tooth lock washer. 3,149,655, 9–22–64, Cl. 151—35.
Chiasson, Wilbert A., to Weltronic Co. Welding machine control equipment. 3,141,950, 7–21–64, Cl. 219—89.
Chiasson, Wilbert A., to Weltronic Co. Motor controlling apparatus. 3,143,694, 8–4–64, Cl. 318—227.
Chiaverina, Jean, to Societe d'Electro Chimie, d'Electro-Metallurgie et des Acieries Electriques d'Ugine. Fiber pulp refining apparatus. 3,160,355, 12–8–64, Cl. 241—291.
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La Fave, Ivan V., and Mikesell. 3,127,750.
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Maher, James B., and Mair. 3,132,489.
Michaels, Ernest E. 3,158,667.
Moyer, Frederick D. 3,136,444.
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Orr, Clifford M. 3,154,138.
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Chieger, George, and R. G. Wheeler, to Fruehauf Corp. Auxiliary floor for livestock trailers. 3,116,950, 1–7–64, Cl. 296—24.
Chieger, George, and T. C. Schubach, to Fruehauf Corp. Roll-up door. 3,148,724, 9–15–64, Cl. 160—40.
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Child, Edward T., M. L. Rambo, and J. T. Nolan, Jr., to Texaco Inc. Method for the production of polyisobutylene. 3,125,612, 3–17–64, Cl. 260—683.15.
Child Guidance Toys, Inc.: *See*—
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Child, Ralph G.: *See*—
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Childers, Earl L. Apparatus for sorting meat from mixtures of disunited chicken meat and bones and the like. 3,118,-172, 1–21–64, Cl. 17—1.
Childers, Eugene, C. W. Ellis, and D. J. Ryan, to E. I. du Pont de Nemours and Co. Method of removing nitrogen oxides from gases. 3,125,408, 3–17–64, Cl. 23—2.
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Childs, David L., ⅛ to G. Raccuglia, and ⅛ to J. J. Shanley. Apparatus for separating liquid mixtures. 3,133,881, 5–19–64, Cl. 233—20.

Childs, Gordon E., to Westinghouse Electric Corp. Apparatus for flashing lamp filaments. 3,140,906, 7–14–64, Cl. 316—27.
Childs, Gordon E., to Westinghouse Electric Corp. Method for flashing lamp filaments. 3,144,286, 8–11–64, Cl. 316—1.
Childs, John E., to Rolfes Electronics Corp. Remote bin level-indicating device. 3,128,557, 4–14–64, Cl. 33—126.6.
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Chilton, Harry, deceased, by H. J. Chilton, executrix, to United Kingdom Atomic Energy Authority. Internal fastenings for joints. 3,135,536, 6–2–46, Cl. 285—187.
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Chiotti, Premo, to United States of America, Atomic Energy Commission. Regeneration of fission-products-containing magnesium-thorium alloys. 3,120,435, 2–4–64, Cl. 75—84.1.
Chiras, Stanley J., to Olin Mathieson Chemical Corp. Stabilized liquid ozone. 3,134,648, 5–26–64, Cl. 23—222.
Chirhart, Virgil R. Animated toy. 3,118,248, 1–21–64, Cl. 46—110.
Chishold, John J., to David Clark Co., Inc. Stiffening material for brassieres and similar body confining garments. 3,163,167, 12–29–64, Cl. 128—477.
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Chittleburgh, William F. S., and E. S. Simmonds, to International Standard Electric Corp. Multi-frequency signalling receivers. 3,131,264, 4–28–64, Cl. 179—84.
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Chiusoli, Gian P., to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Preparation of alpha-beta, delta-epsilon unsaturated carboxylic derivatives. 3,146,256, 8–25–64, Cl. 260—464.
Chiusoli, Gian P., to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Process for preparing the seminitrile of beta-hydromuconic acid, its chloride and its lower esters, and products thereof. 3,146,257, 8–25–64, Cl. 260—465.4.
Chiuzzi, Angel F. Lifting device. 3,117,765, 1–14–64, Cl. 254—10.
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Choate, Paul V., and C. B. Weeks, to Hesse-Eastern, Inc. Rocket launcher and sight. 3,138,064, 6–23–64, Cl. 89—1.7.
Choate, William C., J. D. Atlas, and J. A. Wilson, to Esso Research and Engineering Co. Sonic energy transducer. 3,162,368, 12–22–64, Cl. 239—102.
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Chope, Henry R., to Industrial Nucleonics Corp. Method and apparatus for measuring multiple properties of material by applying electric fields at multiple frequencies and combining detection signals. 3,155,898, 11–3–64, Cl. 324—58.5.
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Chorkey, William J., to Arrow Tools Inc. Cylinder with improved sealing and governor means. 3,122,063, 2–25–64, Cl. 91—26.
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Choudhury, Shafi-Uddin A., to Associated Electrical Industries Ltd. Dynamic braking of A.C. motors. 3,153,182, 10–13–64, Cl. 318—211.
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Chouinard, Joseph H. Lawn sweeper attachment. 3,134,118, 5–26–64, Cl. 15—79.
Chouings, Leslie C., to Automotive Products Co. Ltd. Valve mechanism for controlling servo devices of the differential air pressure type. 3,130,551, 4–28–64, Cl. 60—54.5.
Chouings, Leslie C., to Automotive Products Co. Ltd. Disc brakes. 3,149,701, 9–22–64, Cl. 188—73.
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Chow, Alfred W., and J. R. E. Hoover, to Smith Kline & French. Cycloaliphatic penicillin derivatives. 3,117,119, 1–7–64, Cl. 260—239.1.

Chow, Alfred W., and J. R. E. Hoover, to Smith Kline & French Laboratories. Derivatives of 7-aminocephalosporanic acid. 3,131,184, 4–28–64, Cl. 260—243.

Chow, Alfred W., and J. R. E. Hoover, to Smith Kline & French Laboratories. Heterocyclic carboxylic acid derivatives of 7-aminocephalosporanic acid compounds. 3,134,-774, 5–26–64, Cl. 260—243.

Chow, Alfred W., to Smith Kline & French Laboratories. Derivatives of 6-amino penicillanic acid. 3,147,247, 9–1–64, Cl. 260—239.1.

Chow, Woo F., to General Electric Co. Tunnel diode switching circuits. 3,149,241, 9–15–64, Cl. 307—88.5.

Chreist, Louis R., Jr., to South Bend Toy Mfg. Co., Inc. Convertible chair for dolls and infants. 3,155,425, 11–3–64, Cl. 297—131.

Chreitzberg, Augustus M., to The Electric Storage Battery Co. Electric battery and method for operating same. 3,118,-100, 1–14–64, Cl. 320—13.

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Christen, Gilbert P., and E. M. Guidal, to Societe des Usines Chimiques Rhone-Poulenc. Graft copolymer of 1,3-butadiene on vinyl chloride-vinyl acetate copolymer. 3,119,786, 1–28–64, Cl. 260—45.5.

Christensen, Ahlman C., deceased, J. M. Christensen, executrix. Knock-down shelving assembly. 3,141,423, 7–21–64, Cl. 108—111.

Christensen, Antone M. Utility tray. 3,126,100, 3–24–64, Cl. 211—126.

Christensen, Arthur E. Artificial fly. 3,133,371, 5–19–64, Cl. 43—42.25.

Christensen, Bent, to Philco Corp. Stabilized unilateral negative-resistance amplifier. 3,160,823, 12–8–64, Cl. 330—6.

Christensen, Bent, to Westinghouse Electric Corp. Monolithic semiconductor circuit with energy storage junction and feedback to active transistor to produce two terminal inductance. 3,160,835, 12–8–64, Cl. 333—80.

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Christensen, Frank L., to Tempress Research Co., Inc. Diamond scriber. 3,138,875, 6–30–64, Cl. 33—18.

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Christensen, Howard, and R. S. Wagner, to Bell Telephone Laboratories, Inc. Epitaxial deposition on the surface of a freshly grown dendrite. 3,152,022, 10–6–64, Cl. 148—175.

Christensen, James, to Schick Electric Inc. Sleeve mounting means. 3,145,451, 8–25–64, Cl. 29—117.

Christensen, Jens J. Horse shoe. 3,163,230, 12–29–64, Cl. 168—22.

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Hosbein, Hugh W., and Lapsley. 3,127,956.
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Clark, Ernest L., to Phillips Petroleum Co. Method and apparatus for measuring a column of oil. 3,119,265, 1–28–64, Cl. 73—290.
Clark, Eugene F., to Fieldcrest Mills, Inc. Apparatus for knitting variant height pile fabrics. 3,140,592, 7–14–64, Cl. 66—85.
Clark, Everett M.: *See*—
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Clark, Fred V., B. C. Trice, and R. J. Karr, deceased (by G. Miller, administratrix), to Continental Oil Co. Heater control system. 3,128,362, 4–7–64, Cl. 219—20.
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Clark, George L., and J. J. Hickey, to Space Technology Laboratories, Inc. Variable time delay generator utilizing switch means and plural resonating elements. 3,139,588, 6–30–64, Cl. 328—177.
Clark, George L., and J. J. Hickey, to Space Technology Laboratories, Inc. High speed automatic triggering apparatus for an electronic camera. 3,151,268, 9–29–64, Cl. 315—10.
Clark, Harold A., and R. H. Leitheiser, to Dow Corning Corp. Siloxane copolymers containing ethylene links. 3,146,218, 8–25–64, Cl. 260—46.5.
Clark, Harold A., and R. H. Leitheiser, to Dow Corning Corp. Silarylene siloxane resins of improved high temperature strength. 3,150,115, 9–22–64, Cl. 260—46.5.
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Clark, Harold E., to Xerox Corp. Corona charging apparatus for non-uniformly charging an xerographic plate in a predetermined manner. 3,160,746, 12–8–64, Cl. 250—49.5.
Clark, Harold E., and R. W. Gundlach, to Xerox Corp. Xerographic developing apparatus. 3,129,115, 4–14–64, Cl. 118—637.
Clark, Harold E., G. R. Mott, R. W. Gundlach, to Xerox Corp. Xerographic machine. 3,146,688, 9–1–64, Cl. 95—1.7.
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Clark, Howard S., to Universal Drug and Research Laboratories, Inc. Method of administering aldohexose-urea compounds to animals. 3,149,033, 9–15–64, Cl. 167—55.
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Clark, Jared W., and C. E. Rectenwald, to Union Carbide Corp. Fluorination of hexachlorobutadiene. 3,149,170, 9–15–64, Cl. 260—653.4.
Clark, Jared W., J. P. Henry, and C. E. Rectenwald, to Union Carbide Corp. Method of reacting tetrachloroethylene, chlorine and hydrogen fluoride. 3,157,707, 11–17–64, Cl. 260—653.7.
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Clark, Leland C., Jr. Process and apparatus for determining the presence of foreign substances in the blood streams of living animals. 3,123,067, 3–3–64, Cl. 128—2.05.
Clark, LeRoy. Cabinet bin. 3,140,136, 7–7–64, Cl. 312—323.
Clark, Marion D., A. R. Fairchild, and F. R. Neall, to Western Electric Co., Inc. Loading and unloading mechanism. 3,127,025, 3–31–64, Cl. 214—1.
Clark, Melville, Jr. Electrical positioning device. 3,120,636, 2–4–64, Cl. 323—53.
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Clark, Nigel G., H. A. Stevenson, R. F. Brookes, and A. F. Hams, to Boots Pure Drug Co. Ltd. Halo-nitroaniline fungicides. 3,119,736, 1–28–64, Cl. 167—30.
Clark, Noah W., W. T. Cooper, and C. P. Williams; said Clark and said Williams assors. to W. T. Cooper. Coupling for sheet metal conduits. 3,154,330, 10–27–64, Cl. 285—419.
Clark, Oliver R., to General Electric Co. Food waste disposer. 3,163,370, 12–29–64, Cl. 241—86.
Clark, Peter F., H. T. Howard, and J. Wardleworth, to Imperial Chemical Industries Ltd. Copper and nickel phthalocyanine dyestuffs and a mono- and di-halo-substituted triazine ring. 3,133,059, 5–12–64, Cl. 260—242.
Clark, Philip B., and D. W. Harling, to McGraw-Edison Co. Adjustable side mount for a light. 3,142,501, 7–28–64, Cl. 285—184.

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Clark, Reginald F., to Cities Service Research and Development Co. Method of preparing tetrakis(triorganophosphite) nickel compounds. 3,152,158, 10–6–64, Cl. 260—439.
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Clark, Robert L., and E. F. Rogers, to Merck & Co., Inc. Coccidiosis control composition. 3,141,820, 7–21–64, Cl. 167—53.1.
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Clark, Sheldon L., H. L. Goldstein, and T. L. Heying, to Olin Mathieson Chemical Corp. Organoboron copolymers and method for their preparation. 3,121,117, 2–11–64, Cl. 260—606.5.
Clark, Stephens C., Jr., and J. E. Jones, to General Electric Co. Automatic control apparatus. 3,123,657, 3–3–64, Cl. 266—23.
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Clark, Walter E., and H. W. Godbee, to United States of America, Atomic Energy Commission. Suppression of ruthenium volatilization in evaporation and calcination of radioactive waste solutions. 3,120,493, 2–4–64, Cl. 252—301.1.
Clark, Wendall J., to Texaco Experiment Inc. Pressure responsive motor. 3,124,960, 3–17–64, Cl. 73—410.
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Clark, William V. A., Jr., P. Taber, and R. M. Steigerwald, to The Sippican Corp. Preset, interchangeable welding heads. 3,148,264, 9–8–64, Cl. 219—86.
Clark, Winslow T., to Adolph Gottscho, Inc. Printing device construction. 3,120,177, 2–4–64, Cl. 101—41.
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Clarke, Frank J., and T. L. Goldsmith, to Clark-Built Ltd. Aerating apparatus. 3,119,339, 1–28–64, Cl. 103—6.
Clarke, Frank J., and J. H. Smithes. Apparatus for the mechanical treading of grapes. 3,140,653, 7–14–64, Cl. 100—238.
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Clarke, Harold K. Interchangeable insert ring for fishing rod guide. 3,117,388, 1–14–64, Cl. 43—24.
Clarke, Jesse E., to Autoquip Corp. Adjustable supports for vehicle lifts. 3,149,700, 9–22–64, Cl. 187—8.75.
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Clarke, Michael R.: *See*—
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Clarke, Norman T., to United Kingdom Atomic Energy Authority. Ionisation chamber. 3,147,394, 9–1–64, Cl. 313—93.
Clarke, Philip C., to Ametek, Inc. Spring motor. 3,151,704, 10–6–64, Cl. 185—37.
Clarke, Philip C., to Ametek, Inc. Force device. 3,151,823, 10–6–64, Cl. 242—107.5.
Clarke, Ray A., to E. I. du Pont de Nemours, and Co. Quinolyl-benzothiazole compounds. 3,152,132, 10–6–64, Cl. 260—288.
Clarke, Richard G., R. H. Groth, and E. J. Duzak, to United Aircraft Corp. Gels and method of making. 3,141,729, 7–21–64, Cl. 23—4.
Clarke, Robert L., to Sterling Drug Inc. Ethers of a-hydroxymethyl-β-monocarbocyclic aryl ethyl amines and their preparation. 3,132,179, 5–5–64, Cl. 260—570.6.
Clarke, Robert L., to Sterling Drug Inc. Sulfur-containing heterocyclic steroids and preparation thereof. 3,135,741, 6–2–64, Cl. 260—239.5.
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Clarke, William E., to International Oil Burner Co. Sheet metal electrical baseboard heater. 3,150,250, 9–22–64, Cl. 219—341.
Clarke, William J. Torque and speed control units. 3,163,056, 12–29–64, Cl. 74—677.
Clarke, Winston B., and R. J. Meltzer, to Bausch & Lomb Inc. Apparatus for determining gamma or X-ray dosage. 3,136,889, 6–9–64, Cl. 250—71.5.
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Clarkson, Frank H. and J. B., and Horton. 3,139,800.
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Clarkson, Frank H. and J. B., and G. Horton, to Clarkson (Engineers) Ltd. Holder for milling cutters and like rotary tools. 3,139,800, 7–7–64, Cl. 90—11.
Clarkson, Jack B., and C. D. Seekings, to Argus Inc. Transparency viewer. 3,153,293, 10–20–64, Cl. 40—63.
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Martin, Ralph E. 3,147,969.
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Clary, Hugh L., B. F. Kuhne, and C. A. Christoff, to Addmaster Corp. Calculating machine. 3,151,546, 10–6–64, Cl. 101—93.
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Clason, Bertil H., to General Motors Corp. Paddle type flow indicator switch. 3,148,254, 9–8–64, Cl. 200—81.9.
Clason, Jan C., and G. C. Damstra, to Fabriek Van Electrische Apparaten Voorheen F. Hazemeijer & Co., N.V. Three-phase A.C. electric circuit breaker. 3,126,465, 3–24–64, Cl. 200—145.
Classe, Gustav-Adolf, to Telefunken Gesellshcaft mit beschrantter Haftung. Conductor centering arrangement for traveling field tube. 3,156,845, 11–10–64, Cl. 315—3.5.
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Clausen, Sigurd, to International Cigar Machinery Co. Toscani cigar machine. 3,128,774, 4–14–64, Cl. 131—91.
Clauser, Milton U., and R. X. Meyer, to Space Technology Laboratories, Inc. Magnetohydrodynamic control systems. 3,162,398, 12–22–64, Cl. 244—14.
Clausi, Adolph S., W. L. Vollink, and E. W. Michael, to General Foods Corp. Breakfast cereal process. 3,121,637, 2–18–64, Cl. 99—80.
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Clausing, Robert E., to United States of America, Atomic Energy Commission. Method for maintaining very high vacuum in a system. 3,140,820, 7–14–64, Cl. 230—69.
Clauson, Alfred E., to The General Electric Co. Ltd. Servicing mechanism for gas-cooled nuclear reactors. 3,122,485, 2–25–64, Cl. 176—30.
Clauson, Sigurd, to American Machine & Foundry Co. Tobacco web severing machine having a reciprocating roller cooperating with a fixed knife in both directions of traverse. 3,154,987, 11–3–64, Cl. 83—152.
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Claussen, Patrick H., to Missouri Farmers Association, Inc. Custom mixing apparatus. 3,139,271, 6–30–64, Cl. 259—154.
Claussen, Walter F., to General Electric Co. Apparatus for measuring high temperature and pressure utilizing thermocouples. 3,147,433, 9–1–64, Cl. 324—71.
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Clune, Elmer F., to United States of America, Army. Magnetron transmitter error detection and correction system. 3,162,811, 12–22–64, Cl. 325—121.
Clupak, Inc.: *See*—
Cluett, Sanford L. 3,148,108.
Freuler, Fred H. 3,122,469.
Clusius, Klaus, to Ciba Ltd. Process for the concentration of isotopes of nitrogen and oxygen in nitric oxide. 3,134,643, 5–26–64, Cl. 23—157.
Clusius, Klaus, and M. Huber, to Ciba Ltd. Separation of substances by counter-flow migration in an electric field. 3,152,062, 10–6–64, Cl. 204—301.
Clute, Francis H. Vacuum expansion exfoliator. 3,145,019, 8–18–64, Cl. 263—21.
Clute, Francis H., to Francis H. Clute & Son, Inc. Conical impeller suction fan. 3,147,911, 9–8–64, Cl. 230—134.
Clute, Francis H., & Son, Inc.: *See*—
Clute, Francis H. 3,147,911.
Cluwen, Johannes M., to North American Philips Co., Inc. Circuit arrangement for limiting electric signals. 3,163,773, 12–29–64, Cl. 307—88.5.
Clynch, Frank, and D. W. Fair, to Continental Oil Co. Seismic transducer construction. 3,159,233, 12–1–64, Cl. 181—.5.
Clynes, Manfred E., to Mnemotron Corp. Auto and cross correlation on-line computer. 3,147,373, 9–1–64, Cl. 235—181.
Clynes, Manfred E. Ultrasonic detection and visualization of internal structure. 3,156,110, 11–10–64, Cl. 73—67.8.
Cmiel, Walter J., to Eriez Mfg. Co. Magnetic conveyor with improved flanged roll. 3,120,891, 2–11–64, Cl. 198—41.
Coach and Car Equipment Corp.: *See*—
Bilancia, Raymond A. 3,140,851.
Bilancia, Raymond A. 3,144,270.
Coach's Sporting Goods Corp.: *See*—
Berry, Daniel E. 3,119,614.
Coad, Brian C., to Texas Instruments Inc. Production of alloy materials. 3,140,172, 7–7–64, Cl. 75—122.
Coady, Michael G., to Merck & Co., Inc. Argon method of drying and preserving lyophilized therapeutic products. 3,143,471, 8–4–64, Cl. 167—78.
Coakley, Arthur J., to Textron Inc. Optical comparator light concentrating attachment. 3,148,582, 9–15–64, Cl. 88—24.
Coal Industry (Patents) Ltd.: *See*—
Kibble, John D., Bennett, and Woodhead. 3,120,105.
Phillips, John, Castro, and Szemes. 3,153,827.
Coal Tar Research Associated, The: *See*—
Waddington, Wright. 3,135,757.
Coan, John P.: *See*—
Eichwald, Eric, and Coan. 3,144,024.
Coan Mfg. Co., Inc.: *See*—
Stein, Elmer A. 3,139,168.
Coanda, George, to Don Baxter, Inc. Method for making a catheter. 3,149,186, 9–15–64, Cl. 264—154.
Coanet, Guy M., to Compagnie des Machines Bull (Societe Anonyme). Record cards feed track. 3,116,922, 1–7–64, Cl. 271—3.
Coast Mfg. and Supply Co.: *See*—
Bascom, Hollis H. 3,128,160.
Coast Metals, Inc.: *See*—
Cape, Arthur T. 3,117,039.
Cape, Arthur T. 3,124,451.
Cape, Arthur T. 3,124,453.
Cape, Arthur T. 3,133,347.
Cape, Arthur T. 3,133,348.
Cape, Arthur T., Zampieri, and Kough. 3,136,630.
Coast Pro-Seal & Mfg. Co.: *See*—
Le Fave, Gene M., and Hayashi. 3,138,573.
Coate, William V. Traction device. 3,120,863, 2–11–64, Cl. 152—210.
Coates, Alma J. Umbilical truss. 3,124,128, 3–10–64, Cl. 128—106.
Coates, Arthur, G. B. Russell, and H. Birchenhough, said Coates and said Russell, assors. to Geo Bray & Co. Ltd. Electric heaters for railway permanent way systems. 3,146,977, 9–1–64, Cl. 246—428.
Coates, Arthur D., and E. O. Baicy, to United States of America, Army. Composite incendiary powder containing metal coated oxidizing salts. 3,120,459, 2–4–64, Cl. 149—5.
Coates, Harold: *See*—
Quesnel, Georges, Girard, Thiot, Coates, and Brown. 3,121,731.
Coates, Harold N., to International Computers and Tabulators Ltd. Tunnel diode sub-harmonic circuit with means controlling output phase. 3,157,796, 11–17–64, Cl. 307—88.5.
Coates, Herbert W.: *See*—
Dunlap, Donald T., and Coates. 3,118,750.
Coates, Robert N., Jr. Dispenser for rolled materials. 3,132,782, 5–12–64, Cl. 225—23.
Coats, Charles E. Changeable chart devices. 3,134,185, 5–26–64, Cl. 40—63.
Coats & Clark Inc.: *See*—
Eckhardt, George R. 3,153,895.
Morin, Louis H. 3,133,404.
Morin, Louis H. 3,141,289.
Morin, Louis H. 3,141,914.
Coats Co., Inc., The: *See*—
Foster, James R. 3,125,152.
Foster, James R. 3,158,190.
Coats, John N. Digester cap assembly with sliding cap. 3,131,925, 5–5–64, Cl. 268—50.
Coats, John N. Kiln disintegrator. 3,142,546, 7–28–64, Cl. 34—137.
Cobaugh, Robert F., to AMP Inc. High tensile splice. Re. 25,698, 12–15–64, Cl. 174—90.
Cobaugh, Robert F., to AMP Inc. Electrical connector. 3,130,258, 4–21–64, Cl. 174—71.
Cobb, Clifton A.: *See*—
Brenner, Robert A., and Cobb. 3,148,144.
Brenner, Robert A., Cobb, and Sauer. 3,151,066.
Cobb, Clifton A., and J. T. Williams, to Whirlpool Corp. Timer heat reduction drier control. 3,122,358, 2–25–64, Cl. 263—10.
Cobb, David A.: *See*—
Kolthoff, C. Paul, Jr., and Cobb. 3,132,868.
Cobb, Delwin E., to Caterpillar Tractor Co. Large capacity bulldozer. 3,121,964, 2–25–64, Cl. 37—143.
Cobb, Donald E.: *See*—
Beaver, Garth H., and Cobb. 3,124,474.
Cobb, Edwin W. Cone, beverage cup and similar article holder. 3,142,425, 7–28–64, Cl. 224—48.
Cobb, Harold M., to United Nuclear Corp. Electron beam welding process. 3,161,950, 12–22–64, Cl. 29—471.5.
Cobb, Henry N., P. Wong, and M. Daum, to Webb & Knapp. Window frame insulating means. 3,121,482, 2–18–64, Cl. 189—64.
Cobb, Jess A., to Chicago Cardboard Products Co. Advertising sign construction. 3,138,886, 6–30–64, Cl. 40—125.
Cobb, Jesse M., and H. J. Krol, to Indak Mfg. Corp. Rotary switch. 3,159,722, 12–1–64, Cl. 200—11.
Cobb, William R., to Greaves & Thomas Ltd. Method of and means for anchoring resilient members in frameworks. 3,118,661, 1–21–64, Cl. 267—110.
Cobel, George B., and P. R. Juckniess, to The Dow Chemical Co. Production of titanium trihalides. 3,152,090, 10–6–64, Cl. 252—442.
Coben, Charles A. Timer driven punched tape for operation of signal controlling switch. 3,158,853, 11–24–64, Cl. 340—309.1.
Coberly, Clarence J., F. B. Brown, and C. P. Williams, to Kobe, Inc. High speed triplex pump. 3,150,594, 9–29–64, Cl. 103—5.
Cobert, Arthur J. Centralized lubrication system. 3,145,803, 8–25–64, Cl. 184—7.
Cobert, Arthur J. Thread lubricating device. 3,162,544, 12–22–64, Cl. 118—125.
Cobi, Silva K.: *See*—
Cobi, Walter H. 3,118,284.
Cobi, Walter H. 3,162,252.
Cobi, Walter H., deceased; J. G. Holland and S. K. Cobi, executors. Expansible pile driving mandrel. 3,118,284, 1–21–64, Cl. 61—53.72.
Cobi, Walter H., deceased; J. G. Holland, and S. K. Cobi, executors. Pile driving hammer. 3,162,252, 12–22–64, Cl. 173—91.
Cobigo, Henri: *See*—
Martinon, Robert, and Cobigo. 3,122,155.
Cobine, James D.: *See*—
Lafferty, James M., Cobine, and Burger. 3,125,441.
Lafferty, James M., Cobine, and Vanderslice. 3,149,249.
Cobine, James D., and L. P. Harris, to General Electric Co. Magnetohydrodynamic generator configuration. 3,149,247. 9–15–64, Cl. 310—11.
Cobler, Homer H., to Cast Aluminum and Brass Corp. Toilet with waste disposing apparatus. 3,124,810, 3–17–64, Cl. 4—90.
Coblitz, Sanford E. Chain receiving and engaging means for a parting tool. 3,129,865, 4–21–64, Cl. 225—103.
Coburn, Donald R. Fishing lure. 3,118,244, 1–21–64, Cl. 43—42.13.
Coburn Mfg. Co., Inc.: *See*—
Gray, Dolph, and Suddarth. 3,121,979.
Coburn, Robert E.: *See*—
Newcomb, Philip P., and Coburn. 3,143,354.
Coca-Cola Co., The: *See*—
Brent, Jewell A. 3,140,187.
Brent, Jewell A., and Bucek. 3,127,276.
Frye, Robert S., and Gunnell. 3,152,604.
Cocanower, Robert D.: *See*—
Rinehart, John S., and Cocanower. 3,128,701.
Cochran, Chudleigh B.: *See*—
Brown, Cicero C., and Cochran. 3,122,205.
Brown, Cicero C., and Cochran. 3,136,366.
Brown, Cicero C., and Cochran. 3,142,339.
Cochran, Chudleigh B., to C. C. Brown. Well completion apparatus. 3,118,502, 1–21–64, Cl. 166—129.
Cochran, Chudleigh B., to C. C. Brown. Cup-seal for well tools. 3,120,272, 2–4–64, Cl. 166—202.
Cochran, Chudleigh B., to C. C. Brown. Combination hydraulic and weight-set dual string well packers. 3,145,777, 8–25–64, Cl. 166—122.
Cochran, Chudleigh B., to C. C. Brown. Sleeve valve for well pipes. 3,151,681, 10–6–64, Cl. 166—224.
Cochran, Chudleigh B., and J. D. Mott, to C. C. Brown. Anchoring device for well tools. 3,130,788, 4–28–64, Cl. 166—217.
Cochran, Clarence W., to United-Carr Fastener Corp. Fastening device. 3,116,526, 1–7–64, Cl. 24—73.
Cochran, Clarence W., deceased, by L. Cochran, administratrix, to United-Carr Fastener Corp. Molding fastener. 3,120,884, 2–11–64, Cl. 189—88.

Cochran, Clarence W., deceased, by L. F. Cochran, administratrix, to United-Carr, Inc. Wiring clip having a stud engagement means. 3,163,712, 12–29–64, Cl. 174—164.
Cochran, Clement B., to Eagle Iron Works. Control device for controlling discharge of settling from a water scalping tank or the like. 3,129,849, 4–21–64, Cl. 222—64.
Cochran, Clement B., to Eagle Iron Works. Control system. 3,160,321, 12–8–64, Cl. 222—64.
Cochran and Co., Annan, Ltd.: *See*—
Pearce, Arnold P. 3,136,297.
Cochran, David S., to Hewlett-Packard Co. Oscillation generator having an amplitude stabilizing circuit. 3,144,619, 8–11–64, Cl. 331—109.
Cochran Equipment Co.: *See*—
Bradshaw, Harold G., Sanderson, and Shaw. 3,128,485.
Herrmann, Thomas R., Shaw, and McCartney. 3,154,165.
Shaw, Hugh H., and Bradshaw. 3,126,112.
Shaw, Hugh H., and Herrmann. 3,154,164.
Cochran, John K., to Pittsburgh Plate Glass Co. Apparatus for winding glass strands. 3,151,963, 10–6–64, Cl. 65—11.
Cochran, Lois: *See*—
Cochran, Clarence W. 3,120,884.
Cochran, Clarence W. 3,163,712.
Cochran, Richard L.: *See*—
Englehart, Theodore M., Cochran, and Engel. 3,138,922.
Reynolds, James W., and Cochran. 3,146,588.
Cochran, Richard L., to The Buehler Corp. Jet boat discharge mounting assembly. 3,134,357, 5–26–64, Cl. 115—14.
Cochran, William C., and W. P. Kampert, to Aluminum Co. of America. Anodizing electrolyte and method. 3,146,178, 8–25–64, Cl. 204—58.
Cochran, William T., G. K. Helder, and J. A. Mines, to Bell Telephone Laboratories, Inc. Transmission measuring system. 3,143,604, 8–4–64, Cl. 179—175.3.
Cochrane, Harry R., and J. A. Danieli. Wall mounted telephone box rack. 3,125,224, 3–17–64, Cl. 211—106.
Cochrane, Harry W., to International Business Machines Corp. Core matrix calculator. 3,157,779, 11–17–64, Cl. 235—157.
Cochrane, William D., and G. W. Wright, to Nashua Corp. Manufacture of double phase adhesive films. 3,154,428, 10–27–64, Cl. 117—122.
Cockburn, David H. Adjustable height golf practice tee with hinged striking plate. 3,161,411, 12–15–64, Cl. 273—195.
Cocker, John III to Cocker Machine & Foundry Co. Method for treating continuous running materials. 3,120,050, 2–4–64, Cl. 28—72.6.
Cocker, John, III, to Cocker Machine & Foundry Co. Drying section for a textile apparatus. 3,123,449, 3–3–64, Cl. 34—121.
Cocker, John T., to Bell Telephone Laboratories, Inc. Circuit for measuring the time symmetry of waveform polarity. 3,147,434, 9–1–64, Cl. 324—77.
Cocker Machine & Foundry Co.: *See*—
Cocker, John, III. 3,120,050.
Cocker, John, III. 3,123,449.
Cockerell, Christopher S., to Hovercraft Development Ltd. Vehicles for travelling over land and/or water having fluid curtains formed by injector action. 3,117,643, 1–14–64, Cl. 180—7.
Cockerell, Christopher S., to Hovercraft Development Ltd. Ground effect machine with fluid curtain forming and maintaining means. 3,117,644, 1–14–64, Cl. 180—7.
Cockerell, Christopher S., to Hovercraft Development Ltd. Ground effect vehicle with curtain reinforcing means. 3,117,645, 1–14–64, Cl. 180—7.
Cockerell, Christopher S., to Hovercraft Development Ltd. Ground effect vehicle with integrated directional and propulsive thrust means. 3,118,513, 1–21–64, Cl. 180—7.
Cockerell, Christopher S., to Hovercraft Development Ltd. Aircraft with fluid sustaining means. 3,124,322, 3–10–64, Cl. 244—12.
Cockerell, Christopher S., to Hovercraft Development Ltd. Vehicle for travelling over land and/or water. 3,162,260, 12–22–64, Cl. 180—7.
Cockerell, Christopher S., and D. J. Hardy, to Hovercraft Development Ltd. Ground effect vehicle having curtain forming fluid recovery means. 3,117,646, 1–14–64, Cl. 180—7.
Cockerill, Francis G.: *See*—
Cleaver, Richard F., and Cockerill. 3,149,334.
Cleaver, Richard F., and Cockerill. 3,149,335.
Cocking, Edward C. D., J. Keppie, L. P. Packman, and H. Smith, to National Research Development Corp. Plague vaccines. 3,137,629, 6–16–64, Cl. 167—78.
Cockrell, Clifford M., to Freeport Sulphur Co. Insulated ship hull. 3,129,684, 4–21–64, Cl. 114—74.
Cockrell, Donald F.: *See*—
Bergman, Stephen A., and Cockrell. 3,146,477.
Cockshutt Farm Equipment of Canada Ltd.: *See*—
McNeil, Donald H. 3,155,473.
Coda, Alfred. Photographic background roller assembly. 3,128,688, 4–14–64, Cl. 95—83.
Coda, Nello, and P. A. Brown, to Erie Technological Products, Inc. Hermetically sealed capacitor. 3,137,808, 6–16–64, Cl. 317—242.
Codd, David T.: *See*—
Gardner, Frank H., and Codd. 3,162,192.
Codd, William A., to General Dynamics Corp. Test circuitry for measuring envelope distortion over a particular frequency range. 3,119,062, 1–21–64, Cl. 324—57.
Coddington, John L., and F. D. Diller, to Avco Corp. Decimal computer employing coincident gate responsive to a pair of counters. 3,126,475, 3–24–64, Cl. 235—160.
Code-A-Phone Electronics, Inc.: *See*—
Byl, Theodore R. 3,123,682.
Catto, Kenneth A. 3,133,160.
Faust, Claude M. 3,119,027.
Codeco: *See*—
Devillard, Georges. 3,130,920.
Codichini, Joseph J.: *See*—
Burris, William J., Codichini, Hayford, and Huber. 3,131,617.
Cerasani, Americo J., Codichini, Davis, and Lewis. 3,135,179.
Cerasani, Americo J., Codichini, Davis, and Lewis. 3,135,180.
Codignola, Franco, to Societa Italiana Resine. Method of hydrogenating alpha-methylstyrene to cumene. 3,127,452, 3–31–64, Cl. 260—667.
Codignola, Franco, to Societa Italiana Resine. Recovery of acetone by distillation in the presence of sodium peroxide. 3,129,147, 4–14–64, Cl. 202—59.
Codignola, Franco, C. G. A. Clayton, J. Ackermann, and G. K. E. Vogel, to Societa Italiana Resine. Process for purifying gaseous formaldehyde. 3,118,747, 1–21–64, Cl. 55—33.
Codos, William V., to Pathe Equipment Co., Inc. Method of bonding polyurethane foam to base materials by flame treatment. 3,131,105, 4–28–64, Cl. 156—82.
Codrington, Robert S., to Schlumberger Well Surveying Corp. Magnetic resonance systems. 3,128,425, 4–7–64, Cl. 324—.5.
Codsen Oil & Chemical Co.: *See*—
Allen, Jerry R., and Krausse. 3,119,884.
Coe, Benjamin, to Woodside Industries, Inc. Door-actuated threshold seal. 3,123,870, 3–10–64, Cl. 20—64.
Coe, David G., to E. I. du Pont de Nemours and Co. Phenylphenazinium cationic dyes. 3,121,711, 2–18–64, Cl. 260—146.
Coe, Jack H.: *See*—
Copeland, Jesse J., and Coe. 3,125,297.
Coe Mfg. Co., The: *See*—
Haumann, George. 3,139,004.
Hudak, Edward G. 3,120,312.
Coe, Richard H., to Shell Oil Co. Process for sweetening sour hydrocarbons and regenerating used catalyst. 3,155,606, 11–3–64, Cl. 208—203.
Coe, Thomas D., to Wakefield Engineering, Inc. Cooler. 3,149,666, 9–22–64, Cl. 165—121.
Coen, Aldo L. Loud speaker structure. 3,133,162, 5–12–64, Cl. 179—119.
Coen, Aldo L. Method of working metal. 3,138,864, 6–30–64, Cl. 29—537.
Coenen, Willem F. Operating mechanism for a sliding roof for carriage bodies. 3,137,491, 6–16–64, Cl. 268—46.
Coes, Loring, Jr., to Norton Co. Precision pump. 3,136,455, 6–9–64, Cl. 222—319.
Coes, Samuel H., to Norton Co. Method of making cold ends for silicon carbide resistor bars. 3,137,590, 6–16–64, Cl. 117—201.
Cofek, Henry R.: *See*—
Hubbard, David W., and Cofek. 3,154,233.
Cofer, Kenneth B.: *See*—
Baliker, John J., Jr., Cofer, Griffin, and Sheets. 3,121,727.
Coffaro, John S., and J. De Francisci, Jr., to De Francisci Machine Corp. Weighing machine for stranded products. 3,134,449, 5–26–64, Cl. 177—57.
Coffee, Ralph E., to Olin Mathieson Chemical Corp. Particulate nitrocellulose coated with sorbitan trioleate. 3,118,797, 1–21–64, Cl. 149—10.
Coffee, Robert D., to Eastman Kodak Co. Extrusion die incorporating a hydraulically deformable orifice. 3,122,789, 3–3–64, Cl. 18—12.
Coffelt, Robert J., to The Regents of the University of California. Serpentine fruit press. 3,130,667, 4–28–64, Cl. 100—118.
Coffey, Charles D., to Deutsch Controls Corp. Automatic thermostatic control device. 3,122,317, 2–25–64, Cl. 236—21.
Coffey, Charles S., to Edgerton, Germeshausen & Grier, Inc. Transformer coupled multivibrator. 3,144,565, 8–11–64, Cl. 307—88.5.
Coffey, Daniel F., Jr., to Marinette and Menominee Box Company. Bulk bin. 3,159,300, 12–1–64, Cl. 217—65.
Coffey, Ralph J., to American Chain & Cable Co., Inc. Welding means. 3,131,282, 4–28–64, Cl. 219—51.
Coffey, Ralph J., to American Chain & Cable Co., Inc. Straightening and cutting of rod. 3,152,631, 10–13–64, Cl. 153—80.
Coffey, Robert G. Kite and stabilizing means therefor. 3,120,366, 2–4–64, Cl. 244—153.
Coffey, Roger T. Means for preventing rotation of pendulous element of hub odometer. 3,130,907, 4–28–64, Cl. 235—95.
Coffey, William J. Clothespin. 3,141,212, 7–21–64, Cl. 24—138.
Coffield, Thomas H.: *See*—
Closson, Rex D., and Coffield. 3,159,660.
Closson, Rex D., Coffield, Klopfer, and Shapiro. 3,155,620.
Ihrman, Kryn G., and Coffield. 3,117,148.

Coffield, Thomas H., to Ethyl Corp. Nitroso-manganese tetracarbonyl. 3,118,728, 1–21–64, Cl. 23—14.
Coffield, Thomas H., to Ethyl Corp. Hydrocarbon compositions. 3,132,102, 5–5–64, Cl. 252—42.4.
Coffield, Thomas H., and R. P. M. Werner, to Ethyl Corp. Organometallic compounds. 3,124,600, 3–10–64, Cl. 260—346.1.
Coffield, Thomas H., and R. D. Closson, to Ethyl Corp. Ionic aromatic compounds of transition metals having atomic numbers from 7 to 14 less than that of the next higher rare gas. 3,130,214, 4–21–64, Cl. 260—429.
Coffield, Thomas H., and A. H. Filbey, to Ethyl Corp. Stabilized organic material. 3,156,543, 11–10–64, Cl. 44—78.
Coffin, Lucien, and C. Le Feuvre, to l'Electricite de France (Service National). Loading-unloading device for nuclear reactor. 3,151,033, 9–29–64, Cl. 176—30.
Coffman, Donald D., and J. F. Harris, Jr., to E. I. du Pont de Nemours and Co. 2,3 and 2,3,4 perfluoro carbon substituted perfluoro oxetanes. 3,125,581, 3–17–64, Cl. 260—333.
Cof-Free, Inc.: *See*—
Blanchard, Donn C. 3,121,783.
Cofrancesco, Anthony J., to General Aniline & Film Corp. Process for the preparation of 4-nitrostilbene carbonitriles. 3,130,218, 4–21–64, Cl. 260—465.
Cogan, Stanley W.: *See*—
Eyestone, Shirley F., Cogan, and Mehm. 3,156.047.
Cogez, Paul, J. Dubuisson, and J. Humbert, to Commissariat a l'Energie Atomique. Mechanical movement gate-valve having positive reduction means. 3,120,944, 2–11–64, Cl. 251—158.
Cogez, Paul, J. Humbert, and C. Gewiss, to Commissariat a l'Energie Atomique. Apparatuses for measuring the coefficient of thermal conductivity of solid materials. 3,142,-979, 8–4–64, Cl. 73—15.
Coggeshall, Almy D., to General Electric Co. Structure for retaining generator end windings. 3,135,888, 6–2–64, Cl. 310—271.
Coggeshall, Almy D., J. I. Whittlesey, and W. L. Darby, to General Electric Co. Armature bar vibration damping arrangement. 3,158,770, 11–24–64, Cl. 310—214.
Coggeshall, Norman D., and M. S. Norris, to Gulf Research & Development Co. Process for controlling carbon residue content of oil. 3,121,677, 2–18–64. Cl. 208—178.
Coggins, Robert W.: *See*—
Glasgow, Clarence O., and Coggins. 3,119.674.
Coghill, James T., to The Black-Clawson Co. Apparatus for coating a moving web. 3,131,092, 4–28–64, Cl. 118—413.
Cognet, Firmin E. A., and L. L. Mohier, to Societe Anonyme dite: Societe Generale d'Exploitations Industrielles. Anchoring device for continuous sleeves surrounding electrical bars. 3,138,659, 6–23–64, Cl. 174—95.
Cognie, Emile A. Mechanical control system for the inward rocking of the independent shares of a plough removing spoil heaps in vineyards. 3,144,911, 8–18–64, Cl. 172—234.
Cogsdill, Stuart A., to Cogsdill Tool Products Inc. Deburring tool. 3,122,947, 3–3–64, Cl. 77—73.5.
Cogsdill, Stuart A., to Cogsdill Tool Products, Inc. Deburring tool. 3,132,543, 5–12–64, Cl. 77—73.5.
Cogsdill Tool Products Inc.: *See*—
Cogsdill, Stuart A. 3,122,947.
Cogsdill, Stuart A. 3,132,543.
Cogswell, David W. Mountings for directionally selective ray detecting devices. 3,147,553, 9–8–64, Cl. 33—46.
Cohan, Hilda: *See*—
Cohan, Marvin M. 3,156,048.
Cohan, Leo J. J., and D. Young, to Combustion Engineering, Inc. Combustion inducer for refuse incinerator using horizontal traveling grate stoker. 3,152,562, 10–13–64, Cl. 110—8.
Cohan, Marvin M., deceased, by H. Cohan, executrix. Bowling ball grip fitting device. 3,156,048, 11–10–64, Cl. 33—174.
Cohen, Aaron, M. F. Liscio, and P. Okstein, to United States of America, Navy. Methods of constructing a traveling wave tube. 3,132,410, 5–12–64, Cl. 29—25.14.
Cohen, Aaron I. Apparatus for the projection of distorted images. 3,140,347, 7–7–64, Cl. 178—5.8.
Cohen, Aaron J. Furnace for burnt clay and flexible road base material. 3,140,865, 7–14–64, Cl. 263—30.
Cohen, Abe. Automatic stem and crown assembly device. 3,148,443, 9–15–64, Cl. 29—240.
Cohen, Abe, and V. Tchetchet. Boat. 3,117,547, 1–14–64, Cl. 114—66.5.
Cohen, Abraham B.: *See*—
Celeste, Jack R., and Cohen. 3,155,515.
Cohen, Abraham J., to Sports Arenas, Inc. Bowling pin conditioner. 3,160,901, 12–15–64, Cl. 15—4.
Cohen, Alfred G.: *See*—
Small, Samuel N. 3,120,978.
Small, Samuel N. 3,149,638.
Small, Samuel N. 3,155,353.
Cohen, Arthur. Releasable clamp for vehicle muffler. 3,129,-962, 4–21–64, Cl. 285—371.
Cohen, Arthur, to Carrier Corp. Fusible protector for a refrigeration system. 3,138,936, 6–30–64, Cl. 62—77.
Cohen, Arthur M. Sensing or control system. 3,147,931, 9–8–64, Cl. 242—45.
Cohen, Bernard, to Miller Harness Co., Inc. Protective quarter boot for the front of a horse. 3,119,219, 1–28–64, Cl. 54—82.
Cohen, Edward S.: *See*—
Weiss, Malcolm A., Cohen, and Binder. 3,138,203.
Cohen, George. Camera accessory for coating prints. 3,132,-049, 5–5–64, Cl. 118—264.
Cohen, Harold L.: *See*—
Shechmeister, Isaac L., and Cohen. 3,122,127.
Cohen, Howard H.: *See*—
Anderson, James D., Brautigam, and Cohen. 3,135,043.
Cohen, Irvin, and B. D. Levy, to Construction Fasteners, Inc. Surface sealing fastener assembly. 3,160,054, 12–8–64, Cl. 85—1.
Cohen, Irving A., H. C. Dellinger, M. L. Kasbohm, and J. N. Williams, to Union Carbide Corp. Process and apparatus for the filling, transportation and dispensing of hazardous fluids. 3,151,467, 10–6–64, Cl. 62—48.
Cohen, Jerome, to Armour and Co. Benzoic acid treatment of collagen fibers and chrome tannage thereof. 3,126,433, 3–24–64, Cl. 264—176.
Cohen, Jerry: *See*—
Shumer, Murray, and Cohen. 3,128,448.
Cohen, Kenneth P., and C. A. R. Corbett, to Plastimayd Corp. Air-supported structure. 3,159,165, 12–1–64, Cl. 135—1.
Cohen, Leonard. Metal spool. 3,134,557, 5–26–64, Cl. 242—118.61.
Cohen, Leonard D., and J. A. Noland, to General Telephone and Electronics Laboratories, Inc. Microwave tube with shielded ladder-type delay structure. 3,160,781, 12–8–64, Cl. 315—3.5.
Cohen, Louis: *See*—
Garofalo, Vito M. 3,131,682.
Garofalo, Vito M. 3,159,154.
Cohen, Louis H., to Phelps Time Recording Lock Corp. Lock for a sequential locking system. 3,154,938, 11–3–64, Cl. 70—134.
Cohen, Marvin P.: *See*—
Shavel, John, Jr., von Strandtmann, and Cohen. 3,152,-135.
Cohen, Maurice M. Hair extracting device. 3,152,593, 10–13–64, Cl. 128—355.
Cohen, Melvin: *See*—
Rumbel, Keith E., Cohen, Nugent, and Scurlock. 3,140,-663.
Rumbel, Keith E., Nugent, Scurlock, and Cohen. 3,116,-692.
Cohen, Milton J., to Pharmedical, Inc. Infusion flask. 3,125,092, 3–17–64, Cl. 128—272.
Cohen, Milton J. Fluid withdrawal device and container. 3,159,159, 12–1–64, Cl. 128—2.
Cohen, Milton J. Disposable swab and culture medium device. 3,163,160, 12–29–64, Cl. 128—2.
Cohen, Murray S.: *See*—
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Cohen, Murray S., D. D. Perry, and P. J. Keenan, to Thiokol Chemical Corp. Propargyl nitramine and method of making the same. 3,120,566, 2–4–64, Cl. 260—583.
Cohen, Neal B.: *See*—
Lang, Albert P., and Cohen. 3,152,489.
Cohen, Neal B., to Sperry Rand Corp. Single-edge guide for moving tape. 3,143,270, 8–4–64, Cl. 226—196.
Cohen, Neal B., and K. Sotman, to Sperry Rand Corp. Self-locking quick-releasing hub. 3,124,319, 3–10–64, Cl. 242—68.3.
Cohen, Neal B., and K. Sotman, to Sperry Rand Corp. Self-locking, quick-release hub. 3,154,262, 10–27–64, Cl. 242—68.3.
Cohen, Oscar P., and J. F. Heaps, to Monsanto Chemical Co. Starch esters and process of preparing same. 3,127,362, 3–31–64, Cl. 260—17.4.
Cohen, Paul H., J. W. Schwartz, and C. Pearl, to W. Ralston & Co. Dispenser for wrapping materials and package. 3,132,784, 5–12–64, Cl. 225—37.
Cohen, Pierre, and R. Amavis, to Commissariat a l'Energie Atomique. Ion exchange. 3,128,247, 4–7–64, Cl. 210—37.
Cohen, Robert J., to General Precision Inc. Digital radio active particle detector and control for accelerometer. 3,120,130, 2–4–64, Cl. 73—517.
Cohen, Robert J., to General Precision Inc. Light weight, precision linear accelerometer. 3,133,446, 5–19–64, Cl. 73—517.
Cohen, Robert J., to General Precision Inc. Gyroscope flex-lead connections. 3,154,952, 11–3–64, Cl. 74—5.
Cohen, Robert J., to General Precision Inc. Spin motor monitor including a variable reluctance type pickup. 3,158,-033, 11–24–64, Cl. 74—5.6.
Cohen, Ronald: *See*—
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Cohen, Saul M., and F. J. Kent, to Clinton Industries, Inc. Multiple needle thread trimmer. 3,139,849, 7–7–64, Cl. 112—252.
Cohen, Werner V., to E. I. du Pont de Nemours and Co. Process for preparing polyfluoroalkylamines. 3,118,945, 1–21–64, Cl. 260—583.
Cohen, Werner V., to E. I. du Pont de Nemours and Co. Fluoroalkoxy phthalides. 3,123,620, 3–3–64, Cl. 260—343.3.
Cohler, Edmund U., and J. E. Monahan, to Sylvania Electric Products Inc. Switching circuit employing transistor utilizing minority-carrier storage effect to maintain transistor conducting between input pulses. 3,144,563, 8–11–64, Cl. 307—88.5.

Cohler, Marilyn R.: *See*—
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Cohn, Bernard, H. Lopetz, and J. N. Shah, to Technilith Inc. Method of making lithographic printing plates. 3,161,521, 12–15–64, Cl. 96—75.
Cohn, Harold J. Coffee maker. 3,158,084, 11–24–64, Cl. 99—297.
Cohn, Irving H., to Simmonds Precision Products, Inc. Capacity-type measuring system. 3,161,054, 12–15–64, Cl. 73—304.
Cohn, Johann G. E., to Engelhart Industries, Inc. Method of removing nitrogen oxides from gases. 3,118,727, 1–21–64, Cl. 23—2.
Cohn, Johann G. E., and A. J. Haley, Jr., to Engelhard Industries, Inc. Method of removing oxygen from gases. 3,124,416, 3–10–64, Cl. 23—2.
Cohn, Max, to South River Metal Products Co. Inc. Wire packaging and handling device. 3,150,769, 9–29–64, Cl. 206—52.
Cohn, Morris I., and R. D. Perdue, to Mineral Industries Corp. of America. Method of treating magnesia. 3,127,242, 3–31–64, Cl. 23—201.
Cohn, Morris I., and R. D. Perdue, to Mineral Industries Corp. of America. Method for delaminating sized laminar mineral particles. 3,162,379, 12–22–64, Cl. 241—4.
Cohn, Morris I., and R. D. Perdue, to Mineral Industries Corp. of America. Method of treating asbestos minerals. 3,162,380, 12–22–64, Cl. 241—4.
Cohn, Morris I., and R. D. Perdue, to Mineral Industries Corp. of America. Apparatus for delaminating laminar minerals. 3,162,381, 12–22–64, Cl. 241—40.
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Cohnen, Walther, and H. Klockgether, to Agfa Aktiengesellschaft. Foils and process for coating foils consisting of linear polycarbonates of high molecular weight with cellulose esters. 3,117,019, 1–7–64, Cl. 117—73.
Cohron, Gerald T., to Nuttall Wilson Raimond Engineers, Inc. Instrument for measuring shearing stress-normal stress relationships of soils. 3,116,633, 1–7–64, Cl. 73—101.
Cohrt, Eigil, and J. E. Scavenius, to International Standard Electric Corp. Transistorized supervisory circuit for transmission lines. 3,133,275, 5–12–64, Cl. 340—253.
Coile, Benjamin F., to Textile Machine Works. Knitting machine and method of knitting fabric. 3,136,145, 6–9–64, Cl. 66—43.
Coile, Benjamin F., to Textile Machine Works. Yarn severing mechanism for knitting machines. 3,157,036, 11–17–64, Cl. 66—140.
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Haverstick, Merral P. 3,155,214.
Coit, Burton C., Jr.: *See*—
Beckner, Marshal H., and Coit. 3,134,466.
Cokeley, Bruce J.: *See*—
Harrison, Thomas, and Cokeley. 3,156,240.
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Colacino, Achille. Dispenser for straws and similar articles having a reciprocable ejector. 3,130,866, 4–28–64, Cl. 221—274.
Coladonato, Leo. Deer feet mounts. 3,119,589, 1–28–64, Cl. 248—159.
Colaianni, Thomas. Brush cleaning device. 3,129,451, 4–21–64, Cl. 15—303.
Colalongo, Stephen F.: *See*—
Bartell, Pasquale F., Tint, and Colalongo. 3,135,661.
Colatrella, Ralph J., and H. W. Schaub, to Worthington Corp. Magnetic drive for flowmeter. 3,158,025, 11–24–64, Cl. 73—272.
Colautti, Albert J., and B. F. Meyer, to General Motors Corp. Multiple position sliding switch. 3,135,839, 6–2–64, Cl. 200—5.
Colautti, Albert J., and B. F. Meyer, to General Motors Corp. Vehicle closure. 3,145,988, 8–25–64, Cl. 268—3.
Colbert, Charles R. Urban parking system. 3,136,431, 6–9–64, Cl. 214—16.1.
Colbert, Earl F. Speed regulating attachment for tape recorders. 3,156,324, 11–10–64, Cl. 188—80.
Colbert, Lee J. Cable splicing device. 3,145,421, 8–25–64, Cl. 18—36.
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Colburn, Lawrence D.: *See*—
Nielsen, Knud W. 3,118,796.
Colburn, Richard R. Riding type power mower with floating blades. 3,118,266, 1–21–64, Cl. 56—25.4.
Colburn, Walter E., and R. E. Wiley, to Brewer Pharmacal Engineering Corporation. Electrical interlock circuit. 3,160,793, 12–8–64, Cl. 317—137.
Colburn, William H. Jr., M. A. Picciano, and T. C. Parker, to General Precision, Inc. Molybdenum trioxide-aluminum explosive and exploding bridgewire detonator therefor. 3,160,097, 12–8–64, Cl. 102—28.
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Colby, Ralph S., J. G. Kakatsakis, and D. S. Wilson, to Avco Corp. Shock transformation fixture and system. 3,153,926, 10–27–64, Cl. 73—12.
Colby, Richard H., to United States of America, Army. Double, tandem-arranged magazine feeding device. 3,140,554, 7–14–64, Cl. 42—18.
Colby, Richard H., to United States of America, Army. Push-through-type cartridge belt link with a bolt actuated cartridge retaining latch. 3,152,512, 10–13–64, Cl. 89—35.
Colby, Richard H., to United States of America, Army. Firing mechanism with burst control. 3,152,513, 10–13–64, Cl. 89—140.
Colby, Shirley F. Method for producing a multi-layer pasty-dough. 3,151,987, 10–6–64, Cl. 99—92.
Colclaser, Robert G., Jr.: *See*—
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Colclaser, Robert G., Jr., and R. N. Yeckley, to Westinghouse Electric Corp. Eddy-current heater for compressed-gas circuit interrupters. 3,118,995, 1–21–64, Cl. 200—148.
Colclaser, Robert G., Jr., and R. N. Yeckley, to Westinghouse Electric Corp. Circuit interrupter with movable tubular contact as sole vent for interrupting chamber. 3,154,658, 10–27–64, Cl. 200—148.
Colclaser, Robert G., Jr., and R. N. Yeckley, to Westinghouse Electric Corp. Gas-blast orifice-type interrupting unit with resistance orifice member. 3,160,727, 12–8–64, Cl. 200—148.
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Cole, Edward H. Foot-treadle for machines. 3,134,270, 5–26–64, Cl. 74—560.
Cole, Edward L., and E. C. Knowles, to Texaco Inc. Method of depositing metal-containing material onto an extended surface. 3,147,154, 9–1–64, Cl. 148—6.3.
Cole, Edward L., and G. H. Miller, to Texaco, Inc. Method of treating lubricating oil. 3,150,077, 9–22–64, Cl. 208—264.
Cole, Edward L., and E. C. Knowles, to Texaco Inc. Supported catalysts. 3,155,627, 11–3–64, Cl. 252—477.
Cole, Edward L., and E. C. Knowles, to Texaco Inc. Process for hydrocarbon conversion. 3,158,564, 11–24–64, Cl. 208—122.
Cole, Edward L., and E. C. Knowles, to Texaco Inc. Hydrogenation process. 3,158,567, 11–24–64, Cl. 208—143.
Cole, Fred H. Circuit breaker interrupter. 3,140,374, 7–7–64, Cl. 200—150.
Cole, Frederic W., to The Bendix Corp. Temperature sensitive differential pressure responsive device. 3,117,550, 1–14–64, Cl. 116—70.
Cole, Gordon E., and J. A. Kent, to Amsted Industries Inc. Fifth wheel. 3,148,893, 9–15–64, Cl. 280—434.
Cole, Halbert N., and W. F. Gruber, to E. I. du Pont de Nemours and Co. Preparation of m-phenylenedimaleimide. 3,127,414, 3–31–64, Cl. 260—326.3.
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Cole, Henry B., to American Optical Co. Optical printing method and apparatus therefor. 3,131,596, 5–5–64, Cl. 88—24.
Cole, Herbert, to H. Cole, Trust. Dusting equipment. 3,139,044, 6–30–64, Cl. 107—7.
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Tadanier, John S., and Cole. 3,163,661.
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Cole, John W., and G. W. Onksen. Method of machining materials. 3,135,148, 6–2–64, Cl. 82—1.
Cole, Judson C., and J. R. Hall, to The Bendix Corp. Separable connector for flat multiple-conductor cables. 3,137,537, 6–16–64, Cl. 339—176.
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Cole, Raymond M., to General Motors Corp. Free piston engine dephaser system. 3,116,723, 1–7–64, Cl. 123—46.
Cole, Robert R., to Vard Division, Royal Industries. Ball nut and screw lubricator. 3,132,719, 5–12–64, Cl. 184—65.
Cole, Robert W., to Menasha Wooden Ware Corp. Sheet conveying apparatus. 3,142,388, 7–28–64, Cl. 214—6.

Cole, Theodore H., to International Business Machines Corp. Transistor preparation machine. 3,144,889, 8–18–64, Cl. 140—140.
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Cole, Thomas M., to Federal Pacific Electric Co. Automatic circuit breaker having a combined latch and contact unit pivoted to a contact carrier. 3,161,747, 12–15–64, Cl. 200—116.
Cole, Thomas M., and A. E. Maier, to Federal Pacific Electric Co. Multiple automatic circuit breaker. 3,125,653, 3–17–64, Cl. 200—116.
Cole, Thomas M., and R. B. Goody, to Federal Pacific Electric Co. Current limiting fuse unit with casing sealing its terminals. 3,156,801, 11–10–64, Cl. 200—120.
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Coleman, James C. and R. W. Mayhew, to Owens-Illinois Glass Co. Method of forming cathode ray tube body portion. 3,132,017, 5–5–64, Cl. 65—71.
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Coleman, James T., to United States of America, Navy. Balun transformer with variable transformation ratio. 3,129,393, 4–14–64, Cl. 333—26.
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Coleman, Joseph J., M. E. Wilke, and C. J. Vander Yacht, to Servel Inc. Diaphragm valve for venting fluid. 3,143,441, 8–4–64, Cl. 136—178.
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Colignon, Nora P. Hem construction for lengthening drapes and the like. 3,156,928, 11–17–64, Cl. 2—243.
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Colley, Russell S., to The B. F. Goodrich Co. Coupling with an edge engaging latch member. 3,130,986, 4–28–64, Cl. 285—82.
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Girouard, Philias H., Hickman, Kane, Nelson, Neuman, Randolph, and Collier. 3,146,671.
Girouard, Philias H., Hickman, Kane, Nelson, Neuman, Randolph, and Collier. 3,146,672.
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Collins, Bruce M., to Smith Kline & French Laboratories. Antimicrobial 3-methyl-7-aminodecephalosporanic acid derivatives. 3,129,224, 4–14–64, Cl. 260—243.
Collins, Bruce M., to Smith Kline & French Laboratories. Derivatives of 7-aminocephalosporanic acid. 3,157,648, 11–17–64, Cl. 260—243.
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Collins, Joseph L., to United States of America, Navy. Ultra-low frequency recording. 3,161,739, 12–15–64, Cl. 179—100.2.
Collins, Joseph M. Surgical traction device for stretchers. 3,139,883, 7–7–64, Cl. 128—75.
Collins, Keith D., to Rotax Ltd. Spark ignition apparatus. 3,127,540, 3–31–64, Cl. 315—180.
Collins, Lawrence R., and R. S. Faidy, to General Electric Co. Automatic washing machine with improved cycle selection means. 3,142,976, 8–4–64, Cl. 68—12.
Collins, Lee A. Method of television transmission and reception. 3,148,242, 9–8–64, Cl. 178—5.2.
Collins, Leonard M., to Pressure Dispensers, Inc. Positive action dispensing valve. 3,118,578, 1–21–64, Cl. 222—548.
Collins, Lowell J. Valve assembly for a distribution system. 3,130,744, 4–28–64, Cl. 137—315.
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Collins, Robert J., and R. J. Matthews, to The Upjohn Co. Process for relieving pain with 3-*p*-chloro-phenoxy-2-hydroxy-propyl carbamate. 3,161,567, 12–15–64, Cl. 167—65.
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Collins, Tappan, and P. T. Gacs, to National Steel Corp. Conveyance construction. 3,132,604, 5–12–64, Cl. 105—422.
Collins, Theron T., Jr. Gas scrubbing apparatus. 3,131,237, 4–28–64, Cl. 261—153.
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Collinson, James A., and R. W. Nottorf, to E. I. du Pont de Nemours and Co. Photographic negatives and their preparation. 3,129,096, 4–14–64, Cl. 96—27.
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Ball, Eric. 3,143,776.
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Conto, Armando F., to Freez-King Corp. Control system for a pump. 3,154,092, 10–27–64, Cl. 137—209.
Contractor, Gustad P., and R. K. Buhr, to Her Majesty The Queen, In Right of Canada, as represented by the Minister of Mines and Technical Surveys. Method of removing aluminum oxides from aluminum-killed steels and steels produced by such method. 3,119,159, 1–28–64, Cl. 22—215.
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Contraves AG, Firma: *See*—
Gerber, Alfred. 3,149,568.
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Conville, John. Protective pocket. 3,152,339, 10–13–64, Cl. 2—250.
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Cook, Burton E. Hand truck. 3,155,256, 11–3–64, Cl. 214—371.
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Cook, Charles R., Jr., to Texas Instruments Inc. Active element circuit employing semiconductive sheet as substitute for the bias and load resistors. 3,119,028, 1–21–64, Cl. 037—88.5.
Cook, Charles R., Jr., to Texas Instruments Inc. Relaxation oscillator utilizing field-effect device. 3,130,378, 4–21–64, Cl. 331—111.
Cook, Denys, to The Dow Chemical Co. Preparation of deuterated aromatic materials. 3,132,188, 5–5–64, Cl. 260—668.
Cook, Dudley P., to Union Carbide Corp. Two-component spray gun. 3,122,326, 2–25–64, Cl. 239—401.
Cook, Edward J., to General Electric Co. Radio frequency attenuator. 3,134.950, 5–26–64, Cl. 333—81.
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Cook, Eugene A., and C. Cone, to Midland-Ross Corp. Heat transfer apparatus for continuously moving strip. 3,129,-072, 4–14–64, Cl. 34—54.
Cook, Forrest W.: *See*—
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Cook, Geoffrey A., to General Motors Corp. Timing mechanism for washing machines and like equipment. 3,126,-759, 3–31–64, Cl. 74—568.
Cook, George W., to Reynolds Metals Co. Method of separation. 3,127,239, 3–31–64, Cl. 23—143.
Cook, George W., to Thiokol Chemical Corp. Phase and amplitude sensitive discriminator including capacitive impedances. 3,137,814, 6–16–64, Cl. 324—87.
Cook, George W., to Reynolds Metal Co. Flocculating agent and process for digested bauxite slurries. 3,142,637, 7–28–64, Cl. 210—52.
Cook, Harry G.: *See*—
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Cook, Harry R. Safety-type, rotary vegetation cutting blade. 3,162,990, 12–29–64, Cl. 56—295.
Cook, James A. Fishing line cutter. 3,128,023, 4–7–64, Cl. 225—19.
Cook, John B., and H. V. Bente, to Whitney Blake Co. Reel storage racks. 3,148,776, 9–15–64, Cl. 211—13.
Cook, John E., to Owens-Illinois Glass Co. Gob chute actuating mechanism. 3,142,553, 7–28–64, Cl. 65—304.
Cook, John F., to The McNeil Machine & Engineering Co. Control circuit for lubricating apparatus. 3,123,745, 3–3–64, Cl. 317—139.
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Cook, Melvin A., and H. E. Farnam, Jr., to Iron Ore Co. of Canada. Explosive composition comprising ammonium nitrate and heat-producing metal. Re. 25,695, 12–8–64, Cl. 149—21.
Cook, Melvin A., and H. E. Farnam, Jr., to Iron Ore Co. of Canada. Explosive composition comprising ammonium nitrate and a heat-producing metal. 3,121,036, 2–11–64, Cl. 149—41.
Cook, Melvin A., and W. O. Ursenbach, to United States of America, Navy. Explosive warhead. 3,145,656, 8–25–64, Cl. 102—24.
Cook, Melvin A., T. K. Collins, W. D. Pack, and N. L. Cook, to Intermountain Research and Engineering Co., Inc. Liquid blanketed chlorate blasting agent. 3,155,554, 11–4–64, Cl. 149—77.
Cook, Milton B., to Production Systems, Inc. Sorter. 3,158,-271, 11–24–64, Cl. 214—11.
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Cook, Ralph J., to Semco Research, Inc. Mixing cartridge for sealant compound. 3,153,531, 10–20–64, Cl. 259—113.
Cook, Ralph W. Vacuum evaporator. 3,141,807, 7–21–64, Cl. 159—17.
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Cook, Richard L., to Goodyear Aerospace Corp. Method of forming stretched plastic. 3,118,960, 1–21–64, Cl. 264—230.
Cook, Robert M. Stage for puppets. 3,124,896, 3–17–64, Cl. 46—13.
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Cook, Shirl E., and W. H. Thomas, to Ethyl Corp. Stable lead alkyl compositions and a method for preparing the same. 3.133,097, 5–12–64, Cl. 260—437.
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Cook, William A., and S. S. Feinstein, to E. I. du Pont de Nemours and Co. Process for the production of thermoplastic polymeric film. 3,125,616, 3–17–64, Cl. 264—40.
Cook, William E. Apparatus for preventing discharge of contaminants from an automotive vehicle. 3,119,231, 1–28–64, Cl. 60—29.
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Cooke, Edward G., and L. Phoenix, to Imperial Chemical Industries Ltd. Method of preventing caking of ammonium sulphate and potassium sulphate. 3,126,255, 3–24–64, Cl. 23—119.
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Cooke, Frank, to Norton Co. Grinding machine. 3,129,533, 4–21–64, Cl. 51—101.
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Cooke, Walter W., deceased, by D. L. Cooke, executrix, to Diamond Alkali Co. Process for the purification of alkali metal bichromats. 3,137,541, 6–16–64, Cl. 23—56.

Cooke, William C., and P. S. Porte, to American-Saint Gobain Corp. Polishing head and polishing pad assembly. 3,137,022, 6–16–64, Cl. 15—230.

Cooksey, John C., E. W. Rowlands, Jr., and R. Gardner, Jr., to Baldwin-Lima-Hamilton Corp. Automatic welding tool for forming annular welds. 3,159,734, 12–1–64, Cl. 219—125.

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Cookson, Maynard C. S. Dispensers for syrups and like commodities. 3,144,177, 8–11–64, Cl. 222—309.

Coolbach, Valter O., V. I. Raygorodskaia, and G. V. Efimova, to Leningradsky Nauchno-Issledovatelshy Institute Antibiotikov. Method of extracting griseofulvin from mycelium and native solution. 3,160,640, 12–8–64, Cl. 260—346.2.

Cooley, Austin G., to Litton Systems, Inc. Pressure-responsive recording. 3,138,426, 6–23–64, Cl. 346—101.

Cooley, Austin G., to Litton Systems, Inc. Electric signal recorders. 3,138,429, 6–23–64, Cl. 346—101.

Cooley, George, B. Ellis, and V. Petrow, to The British Drug Houses Ltd. Enol ethers of 6-methyl 3-oxo-4, 6-dienic steroids. 3,153,060, 10–13–64, Cl. 260—397.2.

Cooley, Robert D., and A. R. Perrins, to The Superior Electric Co. Stabilized voltage regulator. 3,128,424, 4–7–64, Cl. 323—47.

Cooley, William E., R. J. Grabenstetter, and R. W. Broge, to The Procter & Gamble Co. Abrasive for dentifrice composition. 3,151,027, 9–29–64, Cl. 167—93.

Coolidge, Arthur W., Jr., to General Electric Co. Gaseous electric discharge device. 3,118,078, 1–14–64, Cl. 313—24.

Coolidge, Arthur W., Jr., and M. J. Slivka, to General Electric Co. Tubulation sealing apparatus and method. 3,145,465, 8–25–64, Cl. 29—481.

Coolidge, John K., to The Gunn Co., Inc. Life preserver and method of making same. 3,125,771, 3–24–64, Cl. 9—337.

Coombes, Robert E., to United Shoe Machinery Corp. Heel attaching machines. 3,151,331, 10–6–64, Cl. 1—335.

Coombs, John M., to Sperry Rand Corp. Data storage apparatus controls. 3,119,110, 1–21–64, Cl. 346—74.

Coombs, John M., to Sperry Rand Corp. Data storage apparatus controls. 3,122,943, 3–3–64, Cl. 74—661.

Coombs, William F., Jr., to Bausch & Lomb Inc. Optical electric system for use with measuring instrument. 3,144,807, 8–18–64, Cl. 88—24.

Coon, Benjamin T., and E. G. Wiltshire, to The Consolidated Mining and Smelting Co. of Canada Ltd. Compact reactor for production of fertilizer solids. 3,125,420, 3–17–64, Cl. 23—259.1.

Cooney, James S., to Pylon Co., Inc. Resilient electrical connector. 3,153,561, 10–20–64, Cl. 339—61.

Cooney, John L., to E. I. du Pont de Nemours and Co. Calendering apparatus. 3,146,490, 9–1–64, Cl. 18—2.

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Ciapetta, Frank G., Coonradt, and Garwood. 3,150,071.

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Coonradt, Harry L., and J. N. Miale, to Socony Mobil Oil Co., Inc. Hydrocracking with reduced catalyst aging. 3,152,980, 10–13–64, Cl. 208—78.

Coonradt, Harry L., and J. N. Miale, to Socony Mobil Oil Co., Inc. Hydrocracking with reduced catalyst aging. 3,155,604, 11–3–64, Cl. 208—78.

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Cooper, Arthur, to The Noble & Wood Machine Co. Board making apparatus. 3,136,684, 6–9–64, Cl. 162—260.

Cooper, Benjamin, and L. J. Lane, to General Electric Co. Control circuit for a stable multivibrator. 3,152,306, 10–6–64, Cl. 331—113.

Cooper-Bessemer Corp., The: *See*—
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Crooks, William R. 3,145,694.
Crooks, William R. 3,145,698.

Cooper, Carlton K., and T. E. Speight, to El Paso Natural Gas Products Co. Fuel regulating intake valve. 3,140,701, 7–14–64, Cl. 123—120.

Cooper, Cleveland N., to Pandjiris Weldment Co. Clamping device for a seamer. 3,122,118, 2–25–64, Cl. 113—99.

Cooper, Cleveland N., to The Pandjiris Weldment Co. Turning roll assembly with elevating mechanism. 3,145,862, 8–25–64, Cl. 214—340.

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Cooper, Daniel A. Framework covering arrangement. 3,127,136, 3–31–64, Cl. 244—133.

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Cooper, Daniel W., to G. Q. Parachute Co., Ltd. Quick-release device. 3,132,399, 5–12–64, Cl. 24—205.17.

Cooper, David H., to Associated Electrical Industries Ltd. Electrical image intensifying devices. 3,120,623, 2–4–64, Cl. 313—65.

Cooper, Dexter P., Jr., and P. H. Mark, to Polaroid Corp. Photographic apparatus. 3,119,317, 1–28–64, Cl. 95—73.

Cooper, Dexter P., Jr., and A. J. Sable, to Polaroid Corp. Photographic exposure apparatus. 3,143,949, 8–11–64, Cl. 95—77.5.

Cooper, Don T. Boring tool. 3,147,645, 9–8–64, Cl. 77—58.

Cooper, Donald E., to Titanium Metals Corp. of America. Melting consumable electrodes. 3,136,837, 6–9–64, Cl. 13—9.

Cooper, Donald E., and E. D. Dilling, to Titanium Metals Corp. of America. Cold mold arc furnace. 3,146,289, 8–25–64, Cl. 13—14.

Cooper, Duane E. Telephone numbers register. 3,156,057, 11–10–64, Cl. 40—68.

Cooper, Eugene S. Geometric design stencil. 3,138,874, 6–30–64, Cl. 33—1.

Cooper, Franklin D., to Bituminous Coal Research, Inc. Solids flow system. 3,124,170, 3–10–64, Cl. 141—18.

Cooper, Gary D. Supporting rocker frame. 3,158,877, 12–1–64, Cl. 5—105.

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Cooper, Glenn D., to General Electric Co. Trimethylsilyl substituted phenols. 3,137,720, 6–16–64, Cl. 260—448.2.

Cooper, Glenn D., and A. R. Gilbert, to General Electric Co. Interpolymers of alkenyl silanes and olefinic hydrocarbons. 3,125,554, 3–17–64, Cl. 260—88.1.

Cooper, Glenn D., and M. Prober, to General Electric Co. Organopolysiloxanes containing silicon-bonded carboxyalkyl radicals. 3,143,524, 8–4–64, Cl. 260—46.5.

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Cooper, Irving, to Joseph B. Cooper & Sons Inc. Palladium base alloy and method of producing same. 3,137,571, 6–16–64, Cl. 75—172.

Cooper, Irving B., Jr., to The Bendix Corp. Flow measuring system. 3,131,559, 5–5–64, Cl. 73—194.

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Cooper, Jerome, and H. G. Frankel, to Frankel Carbon & Ribbon Co. Reverse bar actuator for inking ribbon. 3,138,234, 6–23–64, Cl. 197—172.

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Cooper, Joseph H., and F. R. Woodward, to The Taylor-Winfield Corp. Vertical shear and spot welder combination for joining strip when handled on edge. 3,146,333, 8–25–64, Cl. 219—80.

Cooper, Justin F., to Jefferson Chemical Co., Inc. Method for recovering alkylamine-free ethylenediamine and piperazine. 3,126,383, 3–24–64, Cl. 260—268.

Cooper, Kenneth W., Jr., to General Dynamics Corp. Starter protector for D.C.-A.C. inverter. 3,159,799, 12–1–64, Cl. 331—112.

Cooper, Lawrence E.: *See*—
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Creasey, Raymond F., and Cooper. 3,161,378.

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Cooper, Richard L.: *See*—
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Cooper, Ronald H., to The Dow Chemical Co. Self-settable sand-phenolic resin composition containing 2,5-dimethylpiperazine and molded article made therefrom. 3,118,850, 1–21–64, Cl. 260—38.

Cooper, Ronald H., G. M. Corbett, and N. A. Noeske, to The Dow Chemical Co. Sand compositions for foundry cores and molds comprising alkali metal silicate binders and acrylamide polymer or water-soluble sulfonated alkenyl aromatic polymer additives, their preparation and use. 3,135,029, 6–2–64, Cl. 22—193.
Cooper, Roy F., and H. Nyman, to Sargent Engineering Corp. Ball valve construction. 3,118,650, 1–21–64, Cl. 251—172.
Cooper, Theodore W., to Hughes Aircraft Co. Bonding oxidized materials. 3,128,545, 4–14–64, Cl. 29—472.7.
Cooper, Tinsley Laboratories, Inc.: *See*—
Kraven, Max. 3,162,000.
Cooper, Warner J.: *See*—
Martin, Charles F. 3,147,957.
Cooper, Warren H. and G. M. Oil well circulation device. 3,129,762, 4–21–64, Cl. 166—117.
Cooper, Wayne E.: *See*—
Doyle, Robert, Holt, and Cooper. 3,121,920.
Cooper, William T.: *See*—
Clark, Noah W., Cooper, and Williams. 3,154,330.
Howard, William S., and Cooper. 3,123,583.
Cooperatieve Verkoop-en Productievereniging van Aardappelmeel en Derivaten "Avebe" G.A.: *See*—
Muetgeert, Johannes, Schors, and Hiemstra. 3,112,534.
Cooperman, Michael, to Radio Corp. of America. Tunnel diode circuits. 3,142,770, 7–28–64, Cl. 307—88.5.
Cooperman, Michael, to Radio Corp. of America. Solid state display device. 3,154,720, 10–27–64, Cl. 315—169.
Cooperrider, Myron T.: *See*—
Swenson, Paul F., and Cooperrider. 3,145,925.
Coopersmith, John M., to Standard Oil Co. Electrolysis of alkyl Grignard containing electrolytes. 3,131,135, 4–28–64, Cl. 204—59.
Cooprider, Rex C.: *See*—
Corsette, Douglas F., and Cooprider. 3,128,018.
Corsette, Douglas F., and Cooprider. 3,148,805.
Cooprider, Rex C., to The Drackett Co. Method of making and assembling a liquid dispenser. 3,154,615, 10–27–64, Cl. 264—242.
Coors Porcelain Co.: *See*—
Knowles, George F. 3,130,698.
Cootes, Harold E., to AMP Inc. Strip-feeder subassembly. 3,154,234, 10–27–64, Cl. 226—64.
Coover, Harry W., Jr.: *See*—
McConnell, Richard L., and Coover. 3,121,105.
Shields, Donald J., and Coover. Re. 25,645.
Coover, Harry W., Jr., to Eastman Kodak Co. Polymers prepared my reacting acrylonitrile and an unsaturated monomer in the presence of a preformed interpolymer of a vinyl pyridine and a comonomer. Re. 25,539, 3–24–64, Cl. 260—45.5.
Coover, Harry W., Jr., and J. B. Dickey, to Eastman Kodak Co. Process for making polymers containing acrylonitrile and a vinyl pyridine. Re. 25,533, 3–10–64, Cl. 260—45.5.
Coover, Harry W., Jr., M. A. McCall, and J. E. Guillet, to Eastman Kodak Co. Thermally modified polymers of polypropylene and other polymers and process for preparing the same. 3,121,070, 2–11–64, Cl. 260—45.5.
Coover, Harry W., Jr., and F. B. Joyner, to Eastman Kodak Co. Four-component catalyst for polymerizing olefins containing a mixture of metals, a halogen, and amides. 3,140,-277, 7–7–64, Cl. 260—93.7.
Coover, Harry W., Jr., and N. H. Shearer, Jr., to Eastman Kodak Co. Process for producing reduced transition metal halides. 3,146,224, 8–25–64, Cl. 260—93.7.
Coover, Harry W., Jr., and F. B. Joyner, to Eastman Kodak Co. Three component alkyl aluminum halide catalysts for olefin polymerization and olefin polymerization process therewith. 3,147,240, 9–1–64, Cl. 260—93.7.
Coover, Harry W., Jr., and F. B. Joyner, to Eastman Kodak Co. Process for producing crystalline polyolefins in the presence of an aluminum trialkyl, transition metal halide, and an esterified polyhydric alcohol. 3,149,097, 9–15–64, Cl. 260—93.7.
Coover, Harry W., Jr., and F. B. Joyner, to Eastman Kodak Co. Dyeable polypropylene fibers containing acrylate and methacrylate units in polymeric form. 3,156,743, 11–10–64, Cl. 260—897.
Coover, Harry W., Jr., and F. B. Joyner, to Eastman Kodak Co. Four-component transition metal catalyst for polymerizing olefins. 3,161,627, 12–15–64, Cl. 260—93.7.
Cope, Andrew P., to E. I. du Pont de Nemours and Co. Method and apparatus for heat treating filaments. 3,156,752, 11–10–64, Cl. 264—345.
Cope, Appleton D., to Radio Corp. of America. Storage device having a photoconductive target. 3,136,909, 6–9–64, Cl. 313—65.
Cope, George W.: *See*—
Munson, John C., and Cope. 3,132,308.
Cope, George W., to United States of America, Navy. Transducer coils energizing SCR gate circuit. 3,147,419, 9–1–64, Cl. 318—129.
Cope, Paul E.: *See*—
Sturdevant, Albert G., Cope, and Vanderman. 3,160,326.
Cope, Paul E., and R. B. Vanderman, to The Procter & Gamble Co. Composite package. 3,119,544, 1–28–64, Cl. 229—14.
Cope, Robert W.: *See*—
McIver, Norman E., Leap, and Cope. 3,144,645.
Copease Corp.: *See*—
Sandmeier, Arthur. 3,121,381.
Copeland, Frank S., to Minnesota Mining and Mfg. Co. Breathable surgical adhesive tapes. 3,121,021, 2–11–64, Cl. 117—122.
Copeland, Jesse J., and J. H. Coe, to Hitchcock Transportation Co. Rotary spray head. 3,125,297, 3–17–64, Cl. 239—261.
Copeland, John R., W. J. Robertson, C. H. Walter, and C. H. Boehnker, to Ohio State University Research Foundation. Antenna system. 3,162,855, 12–22–64, Cl. 343—100.
Copeland, Lynn L., to Rubco Products. Underground seal for gas mains, etc. 3,141,478, 7–21–64, Cl. 138—97.
Copeland Refrigeration Corp.: *See*—
Comstock, Russell E., and Gannaway. 3,138,358.
Neubauer, Emil T. 3,123,287.
Neubauer, Emil T., and Comstock. 3,144,982.
Copeland, Roy D. Angle measuring and cutting device for tubular conduits. 3,130,496, 4–28–64, Cl. 33—21.
Copeland, William O., to Radio Corp. of America. Pulse amplitude slicing circuit. 3,130,371, 4–21–64, Cl. 328—54.
Copenhaver, James B. Command computer for use with free-rolling guided missiles. 3,150,824, 9–29–64, Cl. 235—78.
Coper, Kurt, to The Daven Co. Insulated wire for high temperature use and coils made therefrom. 3,119,897, 1–28–64, Cl. 174—110.
Copes, Joseph P.: *See*—
Mayhew, Raymond L., and Copes. 3,125,530.
Copian, Louis P., R. C. Rivers, and E. C. Miller, to Riley Stoker Corp. Burner. 3,145,670, 8–25–64, Cl. 110—28.
Copithorne, Alton R., R. A. De Vita, B. W. Greene, G. J. Musial, J. R. Ioannilli, and R. G. Akerley, to United Shoe Machinery Corp. Sewing machine driving and stopping mechanisms. 3,142,278, 7–28–64, Cl. 112—219.
Coplans, Carl W., to Orthostance (Proprietary) Ltd. Compensating device for footwear. 3,133,544, 5–19–64, Cl. 128—611.
Coplen, Lewis H., W. J. McCudden, G. N. Barker, R. O. Bathiany, and B. O. Hallberg, to Weyerhaeuser Co. Continuous veneer core, and method and apparatus for making the same. 3,135,644, 6–2–64, Cl. 161—101.
Copley, David W. M. Dispenser having a resilient sponge and piston. 3,134,544, 5–26–64, Cl. 239—55.
Copolymer Rubber & Chemical Corp.: *See*—
Sutherland, John D., Jr. 3,130,171.
Van Volkenburgh, Ross. 3,131,033.
Copony, Edward L., and R. R. Harr, to Symington Wayne Corp. Blending apparatus. 3,152,725, 10–13–64, Cl. 222—26.
Coppack, John L., and W. Gibbon, to British Insulated Callender's Cables Ltd. Method of attaching fittings to rods or tubes of resin-bonded glass fiber. 3,152,392, 10–13–64, Cl. 29—517.
Coppee, Peter: *See*—
Muller, Erwin, Speicher, Coppee, and Merten. 3,147,138.
Coppee, Wenceslas E. L. N. Conveying apparatus of the continuous type. 3,151,733, 10–6–64, Cl. 198—164.
Coppick, Sydney: *See*—
Eberl, James J., Coppick, and Steinmann. 3,117,098.
Coppick, Sydney, to Scott Paper Co. Modified aminoplast resin foams and process of manufacture thereof. 3,125,621, 3–17–64, Cl. 264—321.
Copping, Bruce G., to Atkron, Inc. Carrier and package assembly. 3,118,537, 1–21–64, Cl. 206—65.
Copping, Bruce G., to Atkron, Inc. Bottle grippers. 3,125,-369, 3–17–64, Cl. 294—87.24.
Copping, Bruce G., to Atkron, Inc. Package assembly. 3,144,-130, 8–11–64, Cl. 206—65.
Coppock, Walter J., and S. W. Ferris, to Sun Oil Co. Water-in-oil emulsions. 3,152,990, 10–13–64, Cl. 252—32.7.
Coppola, James J., to Industrial Electronic Hardware Corp. Bowling ball accessory. 3,137,505, 6–16–64, Cl. 273—63.
Coppola, Patrick P., to General Electric Co. Dispenser cathode. 3,155,864, 11–3–64, Cl. 313—346.
Coppola, Patrick P., to North American Philips Co., Inc. Indirectly heated cathode. 3,160,780, 12–8–64, Cl. 313—346.
Coppola, Pellegrino W. Elastic tire construction. 3,120,255, 2–4–64, Cl. 152—208.
Coproducts Corp.: *See*—
Hiller, Stanley. 3,130,666.
Copson, Harry R., and F. S. Lang, to The International Nickel Co., Inc. Austenitic chromium-nickel stainless steels resistant to stress-corrosion cracking. 3,159,479, 12–1–64, Cl. 75—128.
Copson, Harry R., and F. S. Lang, to The International Nickel Co., Inc. Austenitic chromium-nickel stainless steels resistant to stress-corrosion cracking. 3,159,480, 12–1–64, Cl. 75—128.
Corah, N. (St. Margaret) Ltd.: *See*—
Brewin, Arthur, and Masters. 3,163,470.
Corbell, Raymond C., and R. N. Mellott, to The Bunker-Ramo Corp. Driver circuit employing charged tuned load for converting voltage level changes to current pulses. 3,163,-777, 12–29–64, Cl. 307—88.5.
Corbelli, Luigi: *See*—
Pedretti, Giovanni, Pellicciari, and Corbelli. 3,149,199.
Corben, Leo D., and E. A. Steigmann, to General Foods Corp. Stabilized photographic silver halide emulsions. 3,128,186, 4–7–64, Cl. 96—109.
Corbett, Charles A. R.: *See*—
Cohen, Kenneth P., and Corbett. 3,159,165.
Corbett, Geo. E., Boiler & Tank, Inc.: *See*—
Corbett, George E. 3,135,248.

Corbett, George E., to Geo. E. Corbett Boiler & Tank, Inc. Spiral water circulating furnace extension. 3,135,248, 6–2–64, Cl. 122—406.
Corbett, Gerald M.: *See*—
Cooper, Ronald H., Corbett, and Noeske. 3,135,029.
Corbett, Herbert O., to National Distillers and Chemical Corp. Apparatus for producing annealed thermoplastic films. 3,119,151, 1–28–64, Cl. 18—15.
Corbett, Herbert O., to National Distillers and Chemical Corp. Extrusion die mechanism. 3,133,313, 5–19–64, Cl. 18—12.
Corbett, Herbert O., to National Distillers and Chemical Corp. Vent for thermoplastic bag. 3,133,691, 5–19–64, 490, 8–25–64, Cl. 38—71.
Corbett, John M.: *See*—
Gordon, David A., and Corbett. 3,146,217.
Corbiere, Paul J., and J. B. Rosset, to Crylor. Pigmented vinyl polymers prepared by adsorbing vinyl monomer on carbon black and then polymerizing said monomers. 3,117,-943, 1–14–64, Cl. 260—41.
Corbiere, Paul J., and P. J. Terra, to Societe Rhodiaceta. Yarn drawing apparatus. 3,124,859, 3–17–64, Cl. 28—59.5.
Corbin, Ashley R. Spectrographic electrode shaper. 3,163,-191, 12–29–64, Cl. 144—46.
Corbin, Eber P., to Jeffrey Galion Mfg. Co. Conveyor belt supporting structure. 3,126,997, 3–31–64, Cl. 198—184.
Corbin, Paul. Front wheel suspension for motor vehicles. 3,150,882, 9–29–64, Cl. 280—112
Corbin, Wesley S., to The Black-Clawson Co. Wire tightener for papermaking machines. 3,140,975, 7–14–64, Cl. 162—273.
Corby Enterprises Inc.: *See*—
Harrison, Benjamin. 3,136,696.
Corby, Peter J. S., to Corbys Ltd. Trousers press. 3,145,-Cl. 229—53.
Corbys Ltd.: *See*—
Corby, Peter J. S. 3,145,490.
Corcoran, James F., to Universal Form Clamp Co. Hanger assembly. 3,136,521, 6–9–64, Cl. 248—300.
Corcoran, John W., to Beckman & Whitley, Inc. Framing camera with rectangularly grouped frame area. 3,161,885, 12–15–64, Cl. 352—84.
Corcoran, Joseph F., Shoe Co., Inc.: *See*—
Ferreira, Joseph J. 3,116,566.
Corcoran, Robert W.: *See*—
Wiener, George W., and Corcoran. 3,152,929.
Cordell, Ralph L., and J. F. Evans, to Pan American Petroleum Corp. Seismic velocity logging of low-velocity well formations. 3,126,976, 3–31–64, Cl. 181—.5.
Cordell, Ray R., and W. F. Gustafson, to Ben Gustafson & Son Mfg. Co. Cottonseed-treating machine. 3,155,542, 11–3–64, Cl. 118—303.
Corderman, Charles L.: *See*—
Rodgers, Franklin A., and Corderman. 3,139,574.
Cordey, Roger F., to Sun Printers Ltd. Production of magazines, pamphlets and the like. 3,153,964, 10–27–64, Cl. 83—407.
Cordier, Jean, to Institut de Recherches de la Siderurgie Francaise. Smelting device. 3,159,702, 12–1–64, Cl. 266—10.
Cordis Corp.: *See*—
Burt, William G., Jr. 3,129,704.
Murphy, William P., Jr. 3,122,136.
Murphy, William P., Jr., and Dandliker. 3,140,714.
Williamson, Donald E. 3,156,236.
Cordis, Gladys S.: *See*—
Cordis, Nat. 3,145,729.
Cordis, Nat. Demountable paddle-link conveyor assembly for stock feeders of the continuous trough type. 3,123,048, 3–3–64, Cl. 119—52.
Cordis, Nat. Trough feeder with reciprocating impeller. 3,123,049, 3–3–64, Cl. 119—52.
Cordis, Nat. Auger-type animal feeder. 3,125,989, 3–24–64, Cl. 119—52.
Cordis, Nat. Poultry feeder with reciprocable conveyor. 3,128,877, 4–14–64, Cl. 198—224.
Cordis, Nat. Proportioning medicator for waterers. 3,131,-707, 5–5–64, Cl. 137—99.
Cordis, Nat, deceased; G. S. Cordis, executor; ⅔ to C. F. Jensen, and ⅓ to G. T. Dobie. Instant action valve. 3,145,729, 8–25–64, Cl. 137—414.
Cordner, James E.: *See*—
Canning, Richard H., and Cordner. 3,129,584.
Cordoba, Benrice, and L. L. Little. Molded spring reel assembly. 3,150,843, 9 29–64, Cl. 242—107.
Cordova, Elsie R.: *See*—
Medina, Eufelio E., and Cordova. 3,134,548.
Cordova, Roland, to Kaiser Industries Corp. Nuclear reactor containment method and apparatus. 3,158,546, 11–24–64, Cl. 176—37.
Cordts, Howard P., to The Dow Chemical Co. High temperature thickeners for polymeric materials. 3,124,553, 3–10–64, Cl. 260—45.5.
Cordy, Robert N., and J. W. Flora, to United States of America, Atomic Energy Commission. Neutron flux detector. 3,163,759, 12–29–64, Cl. 250—83.1.
Corey, Charles S.: *See*—
Andersen, Clifford W., and Corey. 3,139,781.
Corey, George R.: *See*—
Donaldson, George R., Pollitzer, and Corey. 3,154,595.
Corey, Howard S., Jr.: *See*—
Miller, Philip A., and Corey. 3,159,552.
Corey, John L. Television receiver support. 3,143,331, 8–4–64, Cl. 248—356.
Corey, Philip D., D. L. Plette, and A. L. Wellford, to General Electric Co. Inverter circuit utilizing silicon controlled rectifiers and modulating the output with a derived difference voltage. 3,124,740, 3–10–64, Cl. 321—45.
Corey, Richard S.: *See*—
Meisinger, Erwin E., and Corey. 3,128,319.
Corey, Robert J. Replaceable point for a loop-taker. 3,140,-681, 7–14–64, Cl. 112—228.
Corey, Ronald D. Burners. 3,144,073, 8–11–64, Cl. 158—7.
Corey, William H.: *See*—
Govatsos, Edward A., and Corey. 3,157,370.
Corey, William S. Tapping sleeves. 3,132,881, 5–12–64, Cl. 285—197.
Corhart Refractories Co.: *See*—
Alper, Allen M., Begley, Londeree, and McNally. 3,132,-953.
Alper, Allen M., and McNally. 3,132,954.
Alper, Allen M., and McNally. 3,140,955.
Cork, Gordon H., J. S. Atkinson, and V. J. Spagnuolo, to Gemco Electric Co. Adjustable rotary switch. 3,120,595, 2–4–64, Cl. 200—153.
Cork, John M. Retreading apparatus. 3,118,181, 1–21–64, Cl. 18—18.
Corkery, Leon J., to Deere & Co. Crop conditioner. 3,116,-581, 1–7–64, Cl. 56—1.
Corkum, Ray T.: *See*—
Tropp, Frederick E., and Corkum. 3,152,095.
Corlet, Gabriel F., to A.D.G. Societe d'Application des gaz, Produits Routiers et Materiaux. Stoves and like apparatus operating with liquefied gas. 3,156,379, 11–10–64, Cl. 222—5.
Corley, Clifton. Starter mechanism for engines. 3,125,997, 3–24–64, Cl. 123—179.
Corley, Henry P. T., and L. G. Dorsett, to Dorsett Electronics Laboratories, Inc. Electronic controlled vehicle suspension system. 3,124,368, 3–10–64, Cl. 280—6.
Corley, Marshall D. Plug dislodging and retrieving device. 3,160,978, 12–15–64, Cl. 43—17.2.
Corman, Julian, to Grain Processing Corp. Method of refining fungal enzyme preparations. 3,134,723, 5–26–64, Cl. 195—66.
Cormany, Charles L., and W. R. Dial, to Pittsburgh Plate Glass Company. Liquid halogenated hydrocarbon stabilized with a primary alkanol and an alkyl aldehyde hydrazone. 3,152,191, 10–6–64, Cl. 260—652.5.
Cormier, William F., to Minneapolis-Honeywell Regulator Co. D.C. to A.C. converter. 3,129,379, 4–14–64, Cl. 323—22.
Corn Products Co.: *See*—
Avera, Fitzhugh L. 3,121,015.
Gooding, Chester M. 3,133,819.
Gooding, Chester M. 3,139,378.
Gorozpe, Raul D. 3,157,514.
Josefowicz, Edmund L., and Melnick. 3,148,993.
Kerr, Ralph W., and Cleveland. 3,132,066.
Kott, Arthur, and Olson. 3,119,719.
Ledding, Willard E. 3,150,105.
Linskey, Elwood F. 3,139,342.
Mentzer, Merle J. 3,155,527.
Miller, Hilliard M. 3,150,080.
Opila, Robert L. 3,150,006.
Opila, Robert L. 3,158,449.
Opila, Robert L., and Oleson. 3,150,005.
Paschall, Eugene F., Thayer, and Minkema. 3,132,113.
Thayer, Frederick D., Jr. 3,127,393.
Cornell, Hampton G., R. S. Manne, G. R. L. Shepherd, and A. M. Souby, to Esso Research and Engineering Co. Catalytic treatment of crude oils. 3,119,765, 1–28–64, Cl. 208—210.
Cornelison, Boyd, to Texas Instruments Inc. Diffused junction transistor. 3,118,094, 1–14–64, Cl. 317—235.
Cornelissen, Bernardus H. J.: *See*—
Davidse, Jan, and Cornelissen. 3,119,898.
Cornelius Co., The: *See*—
Cornelius, Richard T. 3,135,412.
Cornelius, Richard T. 3,158,296.
Cornelius, Richard T. 3,163,328.
Cornelius, Edward B., to Air Products and Chemicals Inc. Preparing platinum on alumina catalyst. 3,152,092, 10–6–64, Cl. 252—466.
Cornelius, Gail, to R. M. Wade & Co. Drain means for irrigation pipe. 3,143,135, 8–4–64, Cl. 137—494.
Cornelius, George W., to Holley Carburetor Co. Apparatus for consuming the unburned products of combustion of an internal combustion engine. Re. 25,576, 5–12–64, Cl. 60—30.
Cornelius, Ivadell A.: *See*—
Cornelius, Nelson F. 3,118,560.
Cornelius, Ivan G. Reinforcement rod positioning and support clip. 3,145,505, 8–25–64, Cl. 50—479.
Cornelius, Nelson F., deceased; I. A. Cornelius, executrix, to N.F.C. Engineering Co. Self-venting double wall receptacle. 3,118,560, 1–21–64, Cl. 220—14.
Cornelius, Richard T., to The Cornelius Co. Fluid coupling. 3,135,412, 6–2–64, Cl. 215—73.
Cornelius, Richard T. Manual disconnect coupling with pivoted lever having detent engaging lacing cams. 3,155,-402, 11–3–64, Cl. 285—88.
Cornelius, Richard T., to The Cornelius Co. Fluid storage and discharge apparatus. 3,158,296, 11–24–64, Cl. 222—386.5.

Cornelius, Richard T., to The Cornelius Co. Coin operated selective bottle dispensers. 3,163,328, 12–29–64, Cl. 221—133.
Cornell Aeronautical Laboratory, Inc.: *See*—
Bock, Ditmar H. 3,129,284.
Kirchner, Henry P. 3,126,349.
Cornell, Alfred B. Emergency tire chains. 3,138,190, 6–23–64, Cl. 152—242.
Cornell, Beckford E.: *See*—
Warner, Donald F. 3,140,987.
Cornell, Cyrus J.: *See*—
Warner, Donald F. 3,140,987.
Cornell, David, to Monsanto Co. Extractive separation process. 3,158,555, 11–24–64, Cl. 202—39.5.
Cornell, David, and G. H. Birum, to Monsanto Co. Extractive separation process. 3,155,597, 11–3–64, Cl. 202—39.5.
Cornell, David, and G. H. Birum, to Monsanto Co. Extractive separation process. 3,155,598, 11–3–64, Cl. 202—39.5.
Cornell, David D.: *See*—
Buttery, Kenneth T., and Cornell. 3,128,025.
Kirkwood, Lewis E., Bull, and Cornell. 3,129,869.
Cornell-Dubilier Corp.: *See*—
Beyer, Haim. 3,156,854.
Cornell-Dubilier Electric Corp.: *See*—
Cotton, James H. 3,145,448.
McHugh, James F. 3,151,382.
Cornell, Dudley E., III, to Teaching Machines, Inc. Multiple switch device for selectively interconnecting multiple electrical conductors. 3,120,583, 2–4–64, Cl. 200—5.
Cornell, Dudley E., III, and R. A. O'Connell, to Teaching Machines, Inc. Portable teaching devices. 3,137,078, 6–16–64, Cl. 35—9.
Cornell, Edward L., Jr., to Wm. H. Welsh Co., Inc. Guard. 3,143,957, 8–11–64, Cl. 100—53.
Cornell, Edward S., Jr., to Burndy Corp. Pin connector and method of manufacturing the same. 3,118,740, 1–21–64, Cl. 29—193.5.
Cornell, George W., ½ to W. E. Cornell, Jr. Weather strip. 3,131,441, 5–5–64, Cl. 20—67.
Cornell Mfg. Co.: *See*—
Warner, Donald F. 3,140,987.
Cornell, Mead. Metering pump control system. 3,124,270, 3–10–64, Cl. 222—23.
Cornell, Paul A.: *See*—
Lawlor, Robert E. 3,138,422.
Cornell, Richard H., to General Electric Co. Engine fuel control. 3,156,291, 11–10–64, Cl. 158—36.4.
Cornell, Robert W., to United Aircraft Corp. Fastener device. 3,124,190, 3–10–64, Cl. 151—69.
Cornell, W. Elder, Jr.: *See*—
Cornell, George W. 3,131,441.
Cornell, Warren A., and W. D. Lewis, to Bell Telephone Laboratories, Inc. Mobile radio telephone integrated system. 3,118,018, 1–14–64, Cl. 179—15.
Corneisen, David J., to Armco Steel Corp. Pumps with pulsation damper. 3,146,724, 9–1–64, Cl. 103—223.
Cornely, Richard W., and C. F. Hopper, to E. I. du Pont de Nemours, and Co. Stabilization of sulfur trioxide and high strength oleums. 3,148,025, 9–8–64, Cl. 23—167.
Cornet, John P.: *See*—
Breting, Ulysses A., Mooney, Fisher, Blair, and Cornet. 3,121,342.
Cornett, Walter V. Spring mounted impact tool for breaking pavement. 3,133,730, 5–19–64, Cl. 262—14.
Corney, John V. J., to Ferguson Radio Corp., Ltd. Pulse delay network incorporating a pulse generator. 3,160,763, 12–8–64, Cl. 307—88.5.
Corney, Martin: *See*—
Zernow, Louis, Lieberman, and Corney. 3,157,498.
Corney, Martin, I. Lieberman, and L. Zernow, to Aerojet-General Corp. Method of explosively plating particles on a part. 3,160,952, 12–15–64, Cl. 29—529.
Cornia, William: *See*—
Silberg, Oscar, Illgas, and Cornia. 3,161,218.
Cornick, Roy C. Fishing rig. 3,130,514, 4–28–64, Cl. 43—37.
Corniello, Giuseppe. Anti-snoring device. 3,132,647, 5–12–64, Cl. 128—136.
Corning Glass Works: *See*—
Allen, Richard E. 3,131,459.
Allen, Richard E. 3,131,460.
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Tallis, Ernest E., and Tyler. 3,126,435.
Webb, John G., and Priest. 3,163,550.
Courtesy Products Corp.: *See*—
Forsyth, Albert J. C. 3,149,753.
Courtin, Jacques. Traveling wave air massaging method. 3,163,161, 12–29–64, Cl. 128—38.
Courtland Laboratories: *See*—
Bogikes, Paul W. 3,118,557.
Courtney, Albert L., to The Bendix Corp. Machine for forming laminations. 3,140,058, 7–7–64, Cl. 242—2.
Courtney, Orley R. Articulated skid sled device. 3,123,375, 3–3–64, Cl. 280—16.
Courtney, Welby G.: *See*—
Henderson, Ulysses V., Jr., and Courtney. 3,155,456.
Courtney-Pratt, Jeofry S., to American Optical Co. Cathode ray tube with composite multiple glass fibre face. 3,141,105, 7–14–64, Cl. 313—68.
Courtney-Pratt, Jeofry S., to Bell Telephone Laboratories, Inc. Electrostatic high voltage generators. 3,154,699, 10–27–64, Cl. 307—108.
Courtois, Guy, and P. Le Clerc, to Commissariat a l'Energie Atomique. Radioactive sources. 3,145,181, 8–18–64, Cl. 252—301.1.
Courtot, Louis B., and J. F. Norton, to The Weatherhead Co. Quick disconnect valved coupling. 3,159,180, 12–1–64, Cl. 137—614.06.
Courtox, Louis A. Litter. 3,159,417, 12–1–64, Cl. 294—16.
Courtwright, Robert M., to Educators Mfg. Co. Cabinet wall panels and connecting means therefor. 3,159,440, 12–1–64, Cl. 312—263.
Cousier, Jacques, and M. Moutach, to Pechiney Compagnie de Produits Chimiques et Electrometallurgiques. Process for the purification of silicon. 3,148,131, 9–8–64, Cl. 204—130.
Cousins, Edwin R.: *See*—
Tumer, Huseyin V., and Cousins. 3,139,408.
Cousins, Sydne. Foundation garment. 3,148,682, 9–15–64, Cl. 128—535.
Cousseran, Pierre: *See*—
Roche, Roland, Hassig, and Cousseran. 3,125,123.
Couste, Pierre B., R. Trenteseaux, and J. Pallencher. Hinged-latch needle for knitting machines. 3,137,340, 6–16–64, Cl. 163—5.
Cousteau, Jacques Y.: *See*—
Gagnan, Emile, and Cousteau. 3,144,171.
Gagnan, Emile, and Cousteau. 3,149,752.
Cousteau, Jacques Y., E. Gagnan, and J. A. Alinat, to La Spirotechnique. Vessels having a collapsible bottom and inflatable surround. 3,131,406, 5–5–64, Cl. 9—11.

Cousteau, Jacques Y.. and E. Gagnan, to Spirotechnique, La. Mouthpiece for breathing apparatus. 3,147,752, 9–8–64, Cl. 128—147.
Coutant, Ralph E., and J. W. Clark, to General Electric Co. Drive mechanism. 3,133,452, 5–19–64, Cl. 74—421.
Coutts, Morton W. Process for the manufacture of beer and the like. 3,117,005, 1–7–64, Cl. 99—52.
Coutts, Morton W. Process for the production of fermented malt beverages. 3,157,583, 11–17–64, Cl. 195—14.
Couture, Joseph W.: *See*—
McKellar, Robert R., Lynch, Marsh, Couture, and Haynes. 3,163,503.
Couture, Maurice J., D. L. Schindler, and R. B. Weiser, to E. I. du Pont de Nemours and Co. Copolymerization of tetrafluoroethylene and hexafluoropropylene. 3,132,124, 5–5–64, Cl. 260—87.7.
Couzens, Reginald: *See*—
Young, Michael M. 3,122,305.
Young, Michael M. 3,152,749.
Couzens, Reginald, to Diety Machine Works, Inc. Apparatus and method for winding and cutting sheets of web material. 3,123,315, 3–3–64, Cl. 242—56.
Couzens, Reginald, and F. G. Glasby, to Robinson & Sons Ltd. Method and means for making spirally wound containers. 3,150,575, 9–29–64, Cl. 93—80.
Covacevich, Nicolas. Back support and life preserver. 3,159,854, 12–8–64, Cl. 9—312.
Coval, Arthur B.: *See*—
Lee, Arthur L., and Coval. 3,122,373.
Lee, Arthur L., and Coval. 3,155,197.
Cover, Paul F.: *See*—
Cover, Ralph and P. F. 3,131,699.
Cover, Paul W., to Xerox Corp. Image transfer. 3,157,546, 11–17–64, Cl. 156—231.
Cover, Ralph. Corn husking machine. 3,158,156, 11–24–64, Cl. 130—5.
Cover, Ralph and P. F. Corn cutting machine. 3,131,699, 5–5–64, Cl. 130—9.
Cover, Ralph J., and G. R. Field. Method of freezing, packing and breading shrimp, and article resulting therefrom. 3,152,915, 10–13–64, Cl. 99—195.
Covert, John N.: *See*—
Hale, Arthur N., and Covert. 3,140,682.
Covert, Paul W., to Magnetics, Inc. Magnetic amplifier with shunt reset circuit. 3,138,753, 6–23–64, Cl. 323—89.
Covey, John R., to Remington Arms Co., Inc. Roller crimping assembly. 3,138,056, 6–23–64, Cl. 86—39.
Coviello, Joseph. Telephone-holding device. 3,130,276, 4–21–64, Cl. 179—157.
Covington, John N., Jr. Means for handling and method of packaging shotgun shells and the like. 3,163,286, 12–29–64, Cl. 206—3.
Covington, Loren C., to Titanium Metals Corp. of America. Liquid seal vacuum valve. 3,142,308, 7–28–64, Cl. 137—253.
Cowan, John, to Automation Industries, Inc. Ultrasonic inspection apparatus. 3,121,324, 2–18–64, Cl. 73—67.5.
Cowan, John C.: *See*—
Scholfield, Charles R., Cowan, and Friedrich. 3,119,850.
Cowan, John V., to Automation Industries, Inc. Ultrasonic inspection apparatus. 3,130,577, 4–28–64, Cl. 73—67.5.
Cowan, Morris, and R. Spalten. Dental paralleling apparatus. 3,152,401, 10–13–64, Cl. 32—67.
Cowan, Zach S., Jr., to E. I. du Pont de Nemours and Co. Monohydroxy organic acid compounds for improving the properties of cement, concrete and mortars. 3,144,347, 8–11–64, Cl. 106—90.
Cowden, Lewis M.: *See*—
Pelton, John F., and Cowden. 3,150,828.
Cowe, Francis H., to Winchester Electronics, Inc. Electrical connector. 3,122,407, 2–25–64, Cl. 339—217.
Cowgill, Frederic L., to Socony Mobil Oil Co., Inc. Valve testing apparatus. 3,147,611, 9–8–64, Cl. 73—4.
Cowlard, Frederick C., and L. G. Penhale, to The Plessey Co. Ltd. Production of silicon with a predetermined impurity content. 3,155,621, 11–3–64, Cl. 252—62.3.
Cowles Chemical Co.: *See*—
MacMullen, Clinton W., and Marzocchi. Re. 25,622.
Cowles Dissolver Co., Inc., The: *See*—
Brown, Donald J. 3,135,499.
Cowles, John H.: *See*—
Benson, Carl F., and Cowles. 3,158,165.
Cowles, John H., to The Tarrington Co. Roller retainer for tapered bearings. 3,133,770, 5–19–64, Cl. 308—218.
Cowles, John H., and C. F. Benson, to The Torrington Co. Unitary rupturable check valve. 3,116,747, 1–7–64, Cl. 137—68.
Cowles, Raymond H.: *See*—
Reahard, Daniel F., Cowles, and Champ. 3,117,352.
Cowles, Raymond H., to The H. O. Canfield, Co., Inc. Sealing gasket with magnet insert. 3,159,885, 12–8–64, Cl. 20—69.
Cowles, Warren H.: *See*—
Fleming, Robert S., and Cowles. 3,116,600.
Cowles, Warren H., and J. E. Smith, to Holley Carburetor Co. Bypass valve with limited reset. 3,128,783, 4–14–64, Cl. 137—117.
Cowley, Clement W.: *See*—
Rinfret, Arthur P., and Cowley. 3,158.283.
Cowley, Clement W., and T. F. Stachowiak, to Union Carbide Corp. Container for the low temperature preservation of biological substances. 3,151,760, 10–6–64, Cl. 220—20.
Cowley, John J. Liquid proportioning and mixing devices. 3,151,843, 10–6–64, Cl. 259—18.
Cowley, William E., to Vermont American Corp. Plastic case for drills and the like. 3,154,192, 10–27–64, Cl. 206—17.
Cowlishaw, Frank, to W. E. & F. Dobson, Ltd. Support of roofs in mines. 3,143,862, 8–11–64, Cl. 61—45.
Cowman, George R., J. J. Douglass, and A. H. Holtzman, to E. I. du Pont de Nemours and Co. Explosive bonding. 3,137,937, 6–23–64, Cl. 29—486.
Cowper, David R. Clothes drier. 3,146,890, 9–1–64, Cl. 211—86.
Cox, Addis F.: *See*—
Pomerantz, Morton W., and Cox. 3,136,843.
Cox, Arthur, and W. J. Johnson, to Bell & Howell Co. Wide angle lens attachment. 3,152,209, 10–6–64, Cl. 88—57.
Cox, Arthur, and W. J. Johnson, to Bell & Howell Co. Wide angle lens attachment. 3,152,211, 10–6–64, Cl. 88—57.
Cox, Bradley G., to Baker Perkins Inc. Closure for vessels. 3,127,051, 3–31–64, Cl. 220—55.
Cox, Charles D.: *See*—
Vondersmith, Fletcher S., Cox, Raider, and Schoner. 3,137,741.
Cox, Clyde M., and J. T. Cabbage, to Phillips Petroleum Co. Direct heat exchange control system. 3,119,445, 1–28–64, Cl. 165—32.
Cox, Dale W.: *See* —
Fitch, Wiliam H., Rice, and Cox. 3,122,056.
Cox, Darwin S. Method of producing improved vehicle wheels. 3,129,496, 4–21–64, Cl. 29—159.01.
Cox, Darwin S. Process of manufacturing one piece brake drum shells. 3,129,505, 4–21–64, Cl. 29—534.
Cox, David B., to Socony Mobil Oil Co., Inc. Lubricant. 3,155,618, 11–3–64, Cl. 252—39.
Cox, David E.: *See*—
Rieger, John, Marchese, Cox, and Bradford. 3,148,710.
Cox, Donald: *See*—
Caston, Arthur H., and Cox. 3,130,795.
Cox, Earl W., and T. L. Heying, to Olin Mathieson Chemical Corp. Preparation of alkyl and alkenyl derivatives of retction products of decaboranes and acetylenic compounds. 3,137,734, 6–16–64, Cl. 260—606.5.
Cox, Edwin J. R.: *See*—
Conway, Ronald, Sterns, Abel and Cox. 3,148,311.
Cox, Eugene F., D. T. Manning, and H. A. Stansbury, Jr., to Union Carbide Corp. Diisocyanato tricyclodecane. 3,148,202, 9–8–64. Cl. 260—453.
Cox, Everett F., to Whirlpool Corp. Water heater protected with thermoelectrically supplied energy. 3,135,-678, 6–2–64, Cl. 204—196.
Cox, Everett F., to Whirlpool Corp. Thermoelectric immersion cooler. 3,146,600, 9–1–64, Cl. 62—3.
Cox, Frederic L. Camping trailers. 3,163,460, 12–29–64, Cl. 296—23.
Cox, Frederick L. Boat trailer incorporating collapsible sleeping quarter. 3,144,150, 8–11–64, Cl. 214—505.
Cox, George W.: *See*—
Waller, Robert W., and Cox. 3,120,656.
Cox, Glenn L., to Westinghouse Electric Corp. Storage device. 3,124,715, 3–10–64, Cl. 315—10.
Cox, Harold L., R. A. Chabot, and E. W. Strahorn. Equalizer for shear. 3,120,842, 2–11–64, Cl. 125—23.
Cox, Herald R.: *See*—
Cabasso, Victor J., Cox, Moyer, and Roca-Garcia. 3,125,-489.
Cox, Herbert F., Jr., to Inland Container Corp. Fluid dispensing container. 3,117,695, 1–14–64, Cl. 222—105.
Cox, Herbert F., Jr., to Inland Container Corp. Preformed wire tie. 3,128,515, 4–14–64, Cl. 24—30.5.
Cox, James R., to Jersey Production Research Co. Circuit for driving a center tapped head winding. 3,163,804, 12–29–64, Cl. 317—148.5.
Cox, Jay A., to Gulton Industries, Inc. Shielded transformer. 3,149,296, 9–15–64, Cl. 336—84.
Cox, Jay A., to Gulton Industries, Inc. Shielded direct current amplifier. 3,156,859, 11–10–64, Cl. 321—8.
Cox, Jerome R., Jr. Anti-collision device for aircraft. 3,159,-832, 12–1–64, Cl. 343—7.5.
Cox, John E.: *See*—
Horwitz, Henry L., Cox, and Westhead. 3,156,777.
Hunt, Thomas W., and Cox. 3,122,606.
Cox, L. M., Mfg. Co., Inc.: *See*—
Williams, Cole C. 3,132,716.
Cox of Watford Ltd.: *See*—
Babbs, Frederick W. 3,140,896.
Cox, Paul D. and W. A. Gas burner including gas and air mixing apparatus. 3,152,635, 10–13–64, Cl. 158—109.
Cox, Raymond S.: *See*—
Poole, Burnet M., and Cox. 3,153,171.
Cox, Rex E. Gravity flow distributor for granular material. 3,124,278, 3–10–64, Cl. 222—196.
Cox, Richard W.: *See*—
Fassett, Gardner L., and Cox. 3,118,662.
Cox, Robert E., to Deere & Co. Semiautomatic marker. 3,131,773, 5–5–64, Cl. 172—128.
Cox, Robert J.: *See*—
Moore, Ralph G. D., and Cox. 3,134,675.
Cox, Robert M.: *See*—
Gerwig, Harvey F., Cox, Floyd, and Collins. 3,117,585.
Cox, Robert N.: *See*—
Holstein, Alvin W., Cox, and Ficken. 3,128,908.
Cox, Robert P.: *See*—
Buetow, Ralph W., and Cox. 3,160,551.

Cox, Robert P., J. L. Wagner, and R. J. Sexe, to E. I. du Pont de Nemours and Co. Polyethylene adhesives. 3,117,-100, 1–7–64, Cl. 260—23.7.
Cox, Robert P., and J. P. Bailey, to Celanese Corp. of America. Bonding of thermoplastic materials. 3,138,509, 6–23–64, Cl. 156—336.
Cox, Theodore W., to The Nevets Co. Inc. Window roller shade cover. 3,138,195, 6–23–64, Cl. 160—39.
Cox, Thomas E. Damper position-retaining device. 3,122,-163, 2–25–64, Cl. 137—527.8.
Cox, William A.: *See*—
Cox, Paul D. and W. A. 3,152,635.
Cox, William E., and R. D. Alexander. Container for medals, ribbons, military insignia and the like. 3,134,484, 5–26–64, Cl. 206—45.14.
Cox, William J. G., to Computing Devices of Canada Ltd. Resistance networks for stabilising phase shift in resolvers and the like. 3,143,700, 8–4–64, Cl. 323—69.
Coxe, Charles D., to Hanaly and Harmon. Hardening spring by internal oxidation. 3,117,894, 1–14–64, Cl. 148—11.5.
Coy Mfg. Co.: *See*—
Blomgren, Oscar C., and O. C. Blomgren, Jr. 3,139,834.
Coyle, Forrest E., to United States of America, Navy. Means for making a transducer sound absorbing pad. 3,137,897, 6–23–64, Cl. 18—16.5.
Coyle, Joseph E., to United States of America, Air Force. Vacuum cut-off switch. 3,140,819, 7–14–64, Cl. 230—18.
Coyle, William E., to Gem Oil Tool Co., Inc. Well tubing scraper. 3,149,675, 9–22–64, Cl. 166—64.
Coyne, Donald M., and O. L. Riggs, Jr., to Continental Oil Co. Condensation product of unsaturated diols and polyalkylene polyamines and method of preparation thereof. 3,152,187, 10–6–64, Cl. 260—584.
Coyne, Francis H., Jr. Mail stacker. 3,144,985, 8–18–64, Cl. 232—24.
Coyne, James C., to Bell Telephone Laboratories, Inc. Monitoring circuit. 3,127,595, 3–31–64, Cl. 340—267.
Coyne, W. Carroll: *See*—
St. Denny, Ralph B., and Brown. 3,127,165.
Coyner, Eugene C., to E. I. du Pont de Nemours and Co. Process of using a masking coating of a telomer of tetrafluoroethylene. 3,139,352, 6–30–64, Cl. 117—5.5.
Cozadd, Raymond B., and R. A. Miller, to Miller Swivel Products, Inc. Concrete dump bucket. 3,146,924, 9–1–64, Cl. 222—503.
Cozzolino, Alfred R., to Union Bag-Camp Paper Corp. Display package. 3,135,384, 6–2–64, Cl. 206—80.
Crabbe, Pierre: *See*—
Bowers, Albert, and Crabbe. 3,153,065.
Bowers, Albert, and Crabbe. 3,158,625.
Crabtree, Gerald M. Device for aligning receptacle and wall switch cover plates. 3,123,918, 3–10–64, Cl. 33—207.
Crabtree, Kenneth L., and C. R. Thomas, Jr., to Keyes Fibre Co., Inc. Special carton printing press. 3,122,994, 3–3–64, Cl. 101—35.
Crabtree, Kenneth L., and D. E. Burt, to Keyes Fibre Co., Inc. Finishing apparatus for molded pulp paper items. 3,142,613, 7–28–64, Cl. 162—415.
Crabtree, Leonard F.: *See*—
MacKenzie, Louis G., Crabtree, and Cooper. 3,117,184.
Crabtree, Leonard F., and P. A. Cooper, to Automatic Electric Laboratories, Inc. Airport multi-language announcing system. 3,153,121, 10–13–64, Cl. 179—6.
Craddock, Michael J., and D. M. Shaw. Electrical testing equipment. 3,120,758, 2–11–64, Cl. 73—341.
Crafford, Thomas J., to Crafford Tool & Die Co. Wire feeding device. 3,128,028, 4–7–64, Cl. 226—151.
Crafford Tool & Die Co.: *See*—
Crafford, Thomas J. 3,128,028.
Craft, John B. Collapsible boat. 3,139,634, 7–7–64, Cl. 9—2.
Craft, Walter S. Ski towrope grip. 3,142,263, 7–28–64, Cl. 104—202.
Crafton, David A.: *See*—
Carlson, Carl O., Congleton, and Crafton. 3,134,297.
Crafton, William W.: *See*—
Miller, Jack M., Scott, Crafton, and Van Dyke. 3,122,-869.
Crafts, Cecil A., to Robertshaw-Fulton Controls Co. Phase shift keying communication system including automatic phase correction means. 3,119,964, 1–28–64, Cl. 325—30.
Crafts, Cecil A., to Robertshaw Controls Co. Transmitter and receiver for phase modulated signals of the relative phase shift type. 3,157,740, 11–17–64, Cl. 178—66.
Crafts, Cecil A., and M. D. McFarlane, to Robertshaw Controls Co. Single side band radio carrier retrieval system. 3,147,437, 9–1–64, Cl. 325—49.
Crafts Tool and Gage Corp.: *See*—
Hirchert, Richard A. 3,145,512.
Cragoe, Edward J., Jr., to Merck & Co., Inc. Derivatives of pyrido[2.3-e,6.5-e] - bis[1,2,4]thiadiazine - 1,1,9,9 - tetraoxide. 3,155,653, 11–3–64, Cl. 260—243.
Cragstan Corp.: *See*—
Risler, Robert. Re. 25,678.
Craig, Arnold C., and L. G. S. Brooker, to Eastman Kodak Co. Merocyanines and undissociated cyanine dyes. 3,148,065, 9–8–64, Cl. 96—105.
Craig, Bryant F., to Amalga Corp. Conelrad broadcast station control device. 3,124,749, 3–10–64, Cl. 325—64.
Craig, Bryant F., and R. E. McCartney, to Amalga Corp. Conelrad warning device. 3,121,841, 2–18–64, Cl. 325—466.
Craig, Bryant F., and R. E. McCartney, to Amalga Corp. Conelrad warning device. 3,122,705, 2–25–64, Cl. 325—466.
Craig, Burnie J. Blade injection type razor. 3,140,541, 7–14–64, Cl. 30—62.
Craig, Burnie J. Safety razor for receiving blades from a magazine. 3,140,542, 7–14–64, Cl. 30—62.
Craig, Burnie M., to M. de Modena. Separating and counting apparatus. 3,133,624, 5–19–64, Cl. 198—40.
Craig, David, and K. J. Goodrie. Pneumatic tire pressure differential sensing device. 3,158,706, 11–24–64, Cl. 200—61.22.
Craig, Forrest F., Jr., H. Grekel, and K. L. Hujsak, to Pan American Petroleum Corp. Recovery of tars and heavy oils by gas extraction. 3,126,961, 3–31–64, Cl. 166—40.
Craig, Forrest F., Jr., and K. L. Hujsak, to Pan American Petroleum Corp. Recovery of heavy oils by steam extraction. 3,155,160, 11–3–64, Cl. 166—40.
Craig, Howard L., Jr., to Reynolds Metals Co. Composite aluminum material. 3,133,796, 5–19–64, Cl. 29—197.5.
Craig, Hugh R. M.: *See*—
Chalmers, Thomas M., Frankel, and Craig. 3,146,177.
Craig, James C., to I-T-E Circuit Breaker Co. Spring-close high speed breaker. 3,158,714, 11–24–64, Cl. 200—106.
Craig, James R., to Profexray, Inc. X-ray timer system to produce short duration radiation pulses. 3,130,312, 4–21–64, Cl. 250—95.
Craig, James W.: *See*—
Phelps, Morton E., and Craig. 3,136,091.
Craig, James W., L. Hodnett, F. E. Lathe, deceased (by Toronto General Trusts Corp., now by merger Canada Permanent Toronto General Trust Co., executor), to Harbison-Walker Refractories Co. Spalling resistant periclase brick. 3,138,469, 6–23–64, Cl. 106—59.
Craig, Louis E.: *See*—
Horn, Robert C., Moffett, and Craig. 3,133,932.
Weakley, Martin L., Moffett, and Craig. 3,119,865.
Craig, Palmer H.: *See*—
Khouri, Alfred S., Carroll, Craig, and Tedder. 3,124,073.
Craig, Paul N., to Smith Kline & French Laboratories. 5-monoalkylaminopropyl-5H-dibenz - [b,f] - azepines. 3,126,-373, 3–24–64, Cl. 260—239.
Craig, Paul N., and C. L. Zirkle, to Smith Kline & French Laboratories. Substituted 1,1-diphenyl-4-(1-piperidyl)-butanol-1 derivatives. 3,128,278, 4–7–64, Cl. 260—294.
Craig, Robert D., and E. Willdig, to Associated Electrical Industries Ltd. Mass spectrometer sample insertion devices. 3,158,740, 11–24–64, Cl. 250—41.9.
Craig Systems, Inc.: *See*—
Watt, Charles E., Jr., and Carson. 3,129,278.
Weaver, John R., Jr., and Pierrat. 3,131,950.
Craighead, Emery M.: *See*—
Harvey, Robert R., and Craighead. 3,137,345.
Craigie, David: *See*—
Smith, Stanley F., Craigie, and Kennan. 3,146,584.
Craigo, Cecil E.: *See*—
Sutliff, John D., Craigo, and Rollins. 3,141,640.
Craigo, Cecil E., H. A. James, and L. J. Hand, to The Ryan Aeronautical Co. Flexible wing aircraft. 3,140,842, 7–14–64, Cl. 244—46.
Craigo, Helen E.: *See*—
Craigo, John M. and H. E. 3,131,475.
Craigo, John M. and H. E. Instrument for orienting the planes of occlusion. 3,131,475, 5–5–64, Cl. 32—19.
Crain, Cullen M., and C. E. Williams, to United States of America, Navy. Wavemeter. 3,145,299, 8–18–64, Cl. 250—39.
Crain, Donald L., and R. F. Kleinschmidt, to Phillips Petroleum Co. Isomerization of cyclooctadiene compounds. 3,124,621, 3–10–64, Cl. 260—666.
Crain, Norman R., to General Electric Co. Synchronous timing circuit. 3,163,824, 12–29–64, Cl. 328—58.
Crain, Philip, to Allen-Stevens Corp. Fastening device. 3,161,923, 12–22–64, Cl. 20—52.
Crain, Robert E. Grip holder for pistols. 3,156,059, 11–10–64, Cl. 42—71.
Crain, Robert L.: *See*—
Watts, John D., Ireland, and Crain. 3,118,690.
Crake, Wilfred S., to Shell Oil Co. Undergage hole indicator. 3,145,784, 8–25–64, Cl. 175—40.
Crake, Wilfred S., to Shell Oil Co. Well drilling assembly. 3,160,218, 12–8–64, Cl. 175—325.
Cram, Ernest M., and N. G. Ball, to National Steel Corp. Apparatus for bend testing elongated specimens. 3,130,-579, 4–28–64, Cl. 73—100.
Cramer, Charles R., and W. F. L. de Bruijn. Organic tin compounds containing sulphur. 3,126,400, 3–24–64, Cl. 260—429.7.
Cramer, Helen A. Bed pillow protector. 3,162,868, 12–29–64, Cl. 5—339.
Cramer, Henry G., to C. T. Swenson. Continuous film processor. 3,149,551, 9–22–64, Cl. 95—94.
Cramer, Irene: *See*—
Barnes, Allie C. 3,142,347.
Cramer, Leonard L. Method of imbedding hairs for wigs. 3,162,203, 12–22–64, Cl. 132—5.
Cramer, Meredith L., and J. Floros, to Eriez Mfg. Co. Magnetic separator for removing traces of magnetic contamination from fluids. 3,139,403, 6–30–64, Cl. 210—222.
Cramer, Robert H., R. D. Drew, and H. W. Shea, to Socony Mobil Oil Co., Inc. Erosion reduction. 3,140,992, 7–14–64, Cl. 208—120.

Cramer, Robert H., S. C. Eastwood, and A. F. Houser, to Socony Mobil Oil Co., Inc. Manufacture of silica-zirconia-alumina catalyst. 3,140,250, 7–7–64, Cl. 208—120.

Cramer, Robert L., to The Bendix Corp. Pressure control valve. Re. 25,508, 1–7–64, Cl. 128—1.

Cramer, Ted H.: *See*—
Messick, William E. 3,155,934.

Cramer, Ted H., and T. M. Doniguian, to Magna Corp. Electrical corrosion probe. 3,153,217, 10–13–64, Cl. 338—13.

Cramer, Thomas F., to Holley Carburetor Co. Dashpot. 3,116,917, 1–7–64, Cl. 267—1.

Cramer, Thomas F., to Holley Carburetor Co. Governor. 3,133,531, 5–19–64, Cl. 123—103.

Cramer, William F., Jr.: *See*—
Gross, George E., and Cramer. 3,123,651.

Crampton, Donald K., to Chase Brass & Copper Co., Inc. Conversion of brass chips. 3,123,466, 3–3–64, Cl. 75—65.

Cramton, Frank R., to E. B. & A. C. Whiting Co. Foamed polypropylene filaments. 3,118,161, 1–21–64, Cl. 15—159.

Cran, William B. G., to Thomas Broadbent & Sons Ltd. Length measuring device for automatic folders. 3,162,765, 12–22–64, Cl. 250—223.

Crandall, A Ralph, and J. W. Alexander, to Phillips Petroleum Co. Polymer drying process and apparatus. 3,119,146, 1–28–64, Cl. 18—1.

Crandall, Daniel A. Toy jet airliner. 3,136,088, 6–9–64, Cl. 46—76.

Crandall, Roger L., to Bethlehem Steel Co. Method of coating metals. 3,149,987, 9–22–64, Cl. 117—5.5.

Crane Co.: *See*—
Bredtschneider, Kurt B. 3,123,090.
Bredtschneider, Kurt B. 3,130,742.
Bredtschneider, Kurt B. 3,134,396.
Bredtschneider, Kurt B., and Englert. 3,154,094.
Britton, Harrison J. 3,132,837.
Carr, Edward W., Decraene, and Acosta. 3,122,160.
Englert, Joseph A., and Bredtschneider. 3,131,719.
Englert, Joseph A., Magos, and Bredtschneider. 3,149,-847.
Englert, Joseph A., Magos, and Bredtschneider. 3,162,-454.
Englert, Joseph A., Magos, and Bredtschneider. 3,162,-455.
Hansen, George E., and Korzenowski. 3,158,377.
Hansen, George E., Korzenowski, Stone, and Peterson. 3,150,681.
Hoyt, Kenneth C. 3,154,019.
Kanter, Jerome J., Magos, and Meinhart. 3,146,090.
Leighton, Francis, and Herman. Re. 25,669.
Lovelace, Charlie H. 3,124,153.
Magos, John P. 3,135,284.
Magos, John P., Bredtschneider, and Englert. 3,162,453.
Schweitzer, Earl O. 3,132,472.
Valdes, Thomas H., and Rinck. 3,156,751.
Yates, James L. 3,118,197.

Crane, Edward J., and A. L. Masters, to Equity Financial Corp. Drive for poultry picking machine. 3,122,778, 3–3–64, Cl. 17—11.1.

Crane, Edward V., to E. W. Bliss Co. Compacting press. 3,132,379, 5–12–64, Cl. 18—16.5.

Crane, Frederick L., R. L. Lester, and D. E. Green, to Wisconsin Alumni Research Foundation. Tetra-substituted benzoquinones and derivatives of the same. 3,162,654, 12–22–64, Cl. 260—396.

Crane, George R.: *See*—
Luckey, George R., and Crane. 3,145,942.

Crane, Hewitt D., to Stanford Research Institute. Character recognition circuit. 3,145,367, 8–18–64, Cl. 340—146.3.

Crane, Hewitt D., and W. K. MacCurdy, to AMP Inc. Magnetic-core shift register. 3,139,690, 6–30–64, Cl. 340—174.

Crane, Jack P., to Gist Mfg. Co. Drill string shock absorbers. 3,156,106, 11–10–64, Cl. 64—27.

Crane, Jack W., to Sperry Rand Corp. Hay pelleter. 3,144,840, 8–18–64, Cl. 107—14.

Crane Packing Co.: *See*—
Gould, Harold W. 3,120,394.
Roshong, Raymond G. 3,161,996.
Tankus, Harry. 3,162,452.
Tankus, Harry, and Vorhees. 3,152,808.

Crane Products Mfg. Co., Inc.: *See*—
Winters, Daniel R. 3,125,751.

Crane, Robert L.: *See*—
Cleland, Charles E., and Crane. 3,117,036.

Crane, Samuel P., and S. D. Kent, to Alpha Research Corp. Ventilating spacer and method. 3,133,852, 5–19–64, Cl. 161—119.

Crane, Walton B., to Allied Plastics Co. Shipping container. 3,127,086, 3–31–64, Cl. 229—27.

Crane, William B., and R. C. Parrish, to Riegel Textile Corp. Glove forming device having glove printing means incorporated therein. 3,124,066, 3–10–64, Cl. 101—44.

Crankshaw, John H., and R. A. Lasley, to Baldwin-Lima-Hamilton Corp. Method for finishing tooth surfaces of misalignment couplings. 3,125,838, 3–24–64, Cl. 51—281.

Cranston, Lawrence, to United States Rubber Co. Conveyor belt and wire fabric therefor. 3,154,459, 10–27–64, Cl. 161—91.

Craske, William J., to Ellicott Brothers (London) Ltd. Dynamo electric machines. 3,132,269, 5–5–64, Cl. 310—111.

Crass, Rosa A.: *See*—
Koenig, Nathan H., and Crass. 3,145,074.

Crast, Leonard B., Jr.: *See*—
Perron, Yvon G., and Crast. 3,127,394.

Crate, James H., to E. I. du Pont de Nemours and Co. Hinged cover container. 3,126,120, 3–24–64, Cl. 220—31.

Crater, Theodore V., to Bell Telephone Laboratories, Inc. Shaping the power density spectra of pulse trains. 3,133,-280, 5–12–64, Cl. 340—352.

Crauder, Everett E.: *See*—
Imus, Robert E., and Crauder. 3,118,726.

Cravath, Dale. Thermoplastic fastening device. 3,142,088, 7–28–64, Cl. 16—121.

Craven, Arthur D.: *See*—
Derbyshire, Deryck H., and Craven. 3,159,672.

Craven, Claud C. Centering clamp attachment. 3,143,341, 8–4–64, Cl. 269—240.

Craven, David: *See*—
Thomas, George A. 3,141,506.
Thomas, George A. 3,147,809.

Craven, Wilbur J.: *See*—
Warner, Alden Y., Craven, and Stacherl. 3,157,929.

Cravener, Leon J. Lawn applicator for fertilizer and the like. 3,152,353, 10–13–64, Cl. 15—575.

Craver, Augustus E., to FMC Corp. Manufacture of coated material. 3,136,654, 6–9–64, Cl. 117—119.8.

Craver, Edward H., to Western Electric Co., Inc. Reciprocating linear feeder. 3,140,776, 7–14–64, Cl. 198—221.

Craver, John K., to Monsanto Co. Modified polyester resins. 3,163,627, 12–29–64, Cl. 260—45.4.

Cravits, Phillip, to Croname, Inc. Mixing valve unit. 3,154,-101, 10–27–64, Cl. 137—604.

Crawford, Augustus W., and E. G. Boice, to Reed Roller Bit Co. Drill bit nozzles. 3,137,354, 6–16–64, Cl. 175—340.

Crawford, C A. to Hazeltine Research, Inc. Rapid component insertion apparatus. 3,126,549, 3–31–64, Cl. 1—321.

Crawford Collets Ltd.: *See*—
Eve, Leonard F. 3,135,521.

Crawford, David J., to International Business Machines Corp. Memory array sensing. 3,142,049, 7–21–64, Cl. 340—174.

Crawford, Ferrell E.: *See*—
Boyer, Paul E., Mansfield, Crawford, and Lanier. 3,160,-964.

Crawford, Fred F., and A. H. Hanna, to Tung-Sol Electric Inc. High vacuum display device. 3,136,911, 6–9–64, Cl. 313—108.

Crawford Fitting Co.: *See*—
Beck, Edward. 3,133,719.
Cator, Edward J. 3,134,615.

Crawford, George H., Jr., and D. E. Rice, to Minnesota Mining and Mfg. Co. Process for preparing trifluoronitrosoalkane. 3,162,692, 12–22–64, Cl. 260—647.

Crawford, Herman E., to Mopul, Inc. Self-supporting hosiery top. 3,122,906, 3–3–64, Cl. 66—172.

Crawford, Horace R., to The Western Co. of North America. Explosive charge assemblies. 3,162,121, 12–22–64, Cl. 102—24.

Crawford, Irvin H., and W. J. Venor, to Eastman Kodak Co. Photographic paper treated with electron bombard chromic complexes. 3,117,865, 1–14–64, Cl. 96—85.

Crawford, James C., Jr., and R. L. Hartwell, to Johns-Manville Corp. Insulated hose clamps. 3,139,253, 6–30–64, Cl. 248—74.

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Crawford Mfg. Co., Inc., The: *See*—
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Koch, Charles R. 3,163,468.

Crawford, N. B., and E. A. Mills. Emergency braking device. 3,139,953, 7–7–64, Cl. 188—31.

Crawford, Nelson C. Box gauge tool. 3,154,304, 10–27–64, Cl. 269—47.

Crawford, Robert T., and J. B. Stevens, to Eastman Kodak Co. Process for the manufacture of uniformly crimped filter tow. 3,120,692, 2–11–64, Cl. 28—72.

Crawford, Samuel F., Jr., to Kaiser Aluminum & Chemical Corp. Process for the production of aragonite crystals. 3,120,426, 2–4–64, Cl. 23—66.

Crawford, Wayland H., to Modern Village Stores, Inc. Check stand. 3,126,981, 3–31–64, Cl. 186—1.

Crawford, William B.: *See*—
Nourse, Jess H., and Crawford. 3,123,117.
Nourse, Jess H., and Crawford. 3,129,740.
Nourse, Jess H., and Crawford. 3,145,747.

Crawley, Carroll L.: *See*—
Holt, Robert L., and Crawley. 3,150,202.

Crawley, William P., to The Carborundum Co. Heat resistant fibrous products and method of making the same. 3,125,-404, 3–17–64, Cl. 8—115.7.

Crawshaw, Bernard W.: *See*—
Cook, Sidney, and Crawshaw. 3,119,548.

Cray, Seymour R., to Sperry Rand Corp. Regenerative circuit. 3,163,772, 12–29–64, Cl. 307—88.5.

Craycraft, Lester V., and E. E. Barilotti, to United States of America, Navy. Safety and arming monitoring device. 3,141,326, 7–21–64, Cl. 73—71.2.

Crayton, Philip H., to Union Carbide Corp. Process for preparation of metal acylates. 3,162,660, 12–22–64, Cl. 260—414.

Creager, John E., to General Motors Corp. Over center electrical flasher switch. 3,133,174, 5–12–64, Cl. 200—113.

Creamer, Edgar M., Jr., and A. Hopengarten, to Philco Corp. Sterophonic sound reproducing apparatus for demodulating an FM stereo multiplexed signal or amplifying a signal from a phonograph pickup. 3,151,216, 9–29–64, Cl. 179—15.

Crease, Pierre L., and E. E. Sutton, to Dominion Electric Corp. Cooking device. 3,159,094, 12–1–64, Cl. 99—340.

Creasey, Raymond F., G. D. Walley, and F. G. Willox, to The English Electric Co. Ltd. Vertical take-off aircraft. 3,117,747, 1–14–64, Cl. 244—12.

Creasey, Raymond F., and K. Burgin, to English Electric Aviation Ltd. Variable area aircraft wing. 3,130,944, 4–28–64, Cl. 244—43.

Creasey, Raymond F., and P. J. Cooper, to English Electric Aviation Ltd. Supersonic aircraft wing with powerplant. 3,161,378, 12–15–64, Cl. 244—53.

Creasser, Charles H., to Walworth Co. Center flow in-line valve. 3,136,525, 6–9–64, Cl. 251—212.

Creative Consultants Corp.: *See*—
Glasser, Alan. 3,145,658.
Glasser, Alan. 3,146,880.

Creative Ideas Inc.: *See*—
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Creative Industries of Detroit: *See*—
Terry, Rex A. 3,141,053.

Creative Metal Products, Inc.: *See*—
Kagan, Arthur. 3,125,407.

Creative Packaging Inc.: *See*—
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Crecelius, Samuel B., T. E. Brunelle, and L. M. Rue, to Economics Laboratory, Inc. Reaction product of maleic anhydride unsaturated fatty acid adduct and polyethylene glycol. 3,141,897, 7–21–64, Cl. 260—404.8.

Creed & Co. Ltd.: *See*—
Turner, Frederick J. L. 3,144,205.
Turner, Frederick J. L., Mason, and Webberley. 3,132,797.
Wallens, Anthony W., and Soper. 3,117,773.

Creed, Sherman H.: *See*—
Drake, Robert W., and Creed. 3,148,719.
Drake, Robert W., and Creed. 3,151,646.

Creed, Sherman H., to FMC Corp. Article feeding mechanism. 3,155,218, 11–3–64, Cl. 198—30.

Creed, Sherman H., and S. Puccinelli, to FMC Corp. Method of coring fruit. 3,117,605, 1–14–64, Cl. 146—238.

Creed, Sherman H., and S. Csimma, to FMC Corp. Fruit splitting machine. 3,144,061, 8–11–64, Cl. 146—72.

Creedle, Fred W.: *See*—
Wilson, Rosser L., Creedle, and Wilhelm. 3,132,723.

Creedle, Fred W., N. N. Dohrn, and J. R. Wilhelm, to American Brake Shoe Co. Railroad car retarders. 3,125,185, 3–17–64, Cl. 188—62.

Creedon, Joseph F. Automatic parking system. 3,131,820, 5–5–64, Cl. 214—16.1.

Creekmore, Sam J.: *See*—
Johnson, Isaac Y. 3,151,885.

Creese, Earl D., to Federal-Mogul-Bower Bearings, Inc. Plating rack. 3,117,071, 1–7–63, Cl. 204—272.

Creese, Earl D., and H. F. Jones, to Federal-Mogul-Bower Bearings, Inc. Plating apparatus. 3,133,007, 5–12–64, Cl. 204—198.

Crego, Donald F., and G. Lesiecki, to Allis-Chalmers Mfg. Co. Pressure balanced seal. 3,127,181, 3–31–64, Cl. 277—3.

Creighton, Andrew M.: *See*—
Ash, Anthony S. F., Creighton, and Wragg. 3,133,056.
Ash, Anthony S. F., Creighton, and Wragg. 3,133,069.
Ash, Anthony S. F., Creighton, and Wragg. 3,147,260.

Creighton, Everett P., Jr., to The Cambridge Wire Cloth Co. Tapered crimping wheels. 3,146,803, 9–1–64, Cl. 140—105.

Creighton, John H.: *See*—
Brinkmeyer, Francis M., and Creighton. 3,143,814.

Creighton, John H., and H. C. Welser, to Deere & Co. Scraper elevator. 3,161,280, 12–15–64, Cl. 198—109.

Creighton, John P., and E. J. Banks, to Ford Motor Co. Hydraulic transmission. 3,131,539, 5–5–64, Cl. 60—53.

Creighton, Stephen M.: *See*—
Robitschek, Paul, Creighton, and Hindersinn. 3,158,529.

Creme, Michael M. Precoiled artificial lure. 3,158,952, 12–1–64, Cl. 43—42.24.

Cremer, Gottfried, and H. Behrens. Tunnel furnace arrangement. 3,129,933, 4–21–64, Cl. 263—28.

Cremer, Gottfried, and H. Behrens. Method of heating tunnel kilns and a tunnel kiln for carrying the method into effect. 3,158,364, 11–24–64, Cl. 263—28.

Cremer, Josef: *See*—
Rodis, Franz, and Cremer. 3,118,778.

Cremer, Walter, K. Kolks, W. Stanke, and G. Henseleit, deceased; A. T. Henseleit, sole heir, to Koppers Co., Inc. Door for byproduct horizontal coke oven. 3,162,584, 12–22–64, Cl. 202—248.

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Anderson, George B., Hall, and Crenshaw. 3,133,291.

Crepinsek, Alois. Mortise lock with latch bolt and locking bolt. 3,159,993, 12–8–64, Cl. 70—107.

Crepinsek, Alois. Latch bolt lock. 3,160,432, 12–8–64, Cl. 292—167.

Cresap, Wesley L., to Bell Aerospace Corp. Method for control of rotary wing aircraft. 3,118,504, 1–21–64, Cl. 170—160.25.

Crescent Box Corp.: *See*—
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Crescenzo, Francis, and E. J. Fredette, to Package Machinery Co. Heat sealing channel. 3,140,971, 7–14–64, Cl. 156—498.

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Camp, Albert T., and Crescenzo. 3,138,499.

Creskoff, Jacob J., to Vacuum Concrete Corp. of America. Vacuum lifter. 3,117,815, 1–14–64, Cl. 294—64.

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Giustiniani, Piero, Natta, Farina, Mazzanti, and Crespi. 3,151,185.
Giustiniani, Piero, Natta, Mazzanti, and Crespi. 3,153,680.
Natta, Giulio, Crespi, and Bruzzone. 3,127,379.

Cressman, Charles J., and V. J. Malinowski, to Philco Corp. Cooling system for electronic apparatus. 3,147,403, 9–1–64, Cl. 317—100.

Cressman, George W., and L. A. Demchock, Jr., to General Electric Co. Flash lamp. 3,123,993, 3–10–64, Cl. 67—31.

Cresswell, William A., Jr. Calculator. 3,147,915, 9–8–64, Cl. 235—79.5.

Crest Mfg. Co., Inc.: *See*—
Hulka, John J. 3,127,986.

Creswell, Clifford A., to The Arbee Corp. Drive belts. 3,154,960, 11–3–64, Cl. 74—233.

Creswell, Clifford A., to The Arbee Corp. Drive belts. 3,154,961, 11–3–64, Cl. 74—234.

Creswick, Frederick A.: *See*—
McCrory Rollin J., Creswick, and King. 3,143,282.

Creswick, Frederick A., to Battelle Memorial Institute. Internal combustion engine. 3,130,716, 4–28–64, Cl. 123—46.

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Wallace, Charles F., Creswick, and Watters. 3,138,795.

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Spear, Herbert W. 3,136,107.

Cretors, C., & Co.: *See*—
Cretors, Charles J. 3,134,510.
Cretors, Charles J. 3,140,952.

Cretors, Charles J., to C. Cretors & Co. Popped corn warmer and dispenser. 3,134,510, 5–26–64, Cl. 222—156.

Cretors, Charles J., to C. Cretors & Co. Method of dispersing salt in a popcorn slurry. 3,140,952, 7–14–64, Cl. 99—81.

Creusere, Melville C., to United States of America, Navy. Diode multiplier network. 3,131,298, 4–28–64, Cl. 235—194.

Creveling, Catherine B., and E. V. Pennell. Folding table and chair combination. 3,152,833, 10–13–64, Cl. 297—140.

Creveling, Cyrus J., to United States of America, Navy. Digital shift register using output transformer overshoot pulse as sequencing trigger pulse. 3,158,753, 11–24–64, Cl. 307—88.5.

Creveling, Cyrus J., to United States of America, Navy. Exclusive or logical circuit. 3,160,819, 12–8–64, Cl. 328—93.

Creveling, Robert. Counting circuits. 3,141,091, 7–14–64, Cl. 235—92.

Crew, Beverly L.: *See*—
Welsh, Herbert F., Deysher, and Crew. 3,124,791.

Crew, David H.: *See*—
Higgins, Eldon C., and Crew. 3,145,918.

Crews, Robert W.: *See*—
Papacosta, John P., and Crews. 3,149,716.

Crews, Samuel T., Jr.: *See*—
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Crickard, Thomas H., and H. L. Sheets, to The International Nickel Co., Inc. Shipping container. 3,135,382, 6–2–64, Cl. 206—65.

Criddle, Dean W., to California Research Corp. Process of improving grease yields. 3,159,575, 12–1–64, Cl. 252—18.

Criddle, Dean W., to California Research Corp. Grease yields. 3,159,576, 12–1–64, Cl. 252—18.

Crim, Hugh S.: *See*—
Abild, Robert N., Broders, and Crim. 3,162,009.

Crim, Wilbur C.: *See*—
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Crimi, Joseph S.: *See*—
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Crimmins, David J., to The Kent Mfg. Co. Holder for conductor tape. 3,154,365, 10–27–64, Cl. 339—176.

Crimmins, David J., and J. B. Marcsanyi (now by change of name, J. Marshall), to The Kent Mfg. Co. Terminal connector. 3,157,448, 11–17–64, Cl. 339—49.

Crimmins, David J., J. B. Marcsanyi (now by change of name J. Marshall), and R. F. Basile, to The Kent Mfg. Co. Plug connector for flat conductor cable. 3,159,447, 12–1–64, Cl. 339—176.

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Truog, Daniel S., and Dyer. 3,148,676.

Criner, Charles B. Apparatus for improving metal structure. 3,153,820, 10–27–64, Cl. 22—57.2.

Criner, Harry E., to Ford Motor Co. Read head for magnetic surface recording. 3,124,660, 3–10–64, Cl. 179—100.2.

Criner, Harry E., to Ford Motor Co. Pressure sensing device. 3,152,476, 10–13–64, Cl. 73—388.

Crines, James M., to United States of America, Navy. Slider for retaining aircraft launching towlines. 3,161,380, 12–15–64, Cl. 244—63.

Cripe, Buddie L. Hydraulic hand pump. 3,130,675, 4–28–64, Cl. 103—37.
Cripe, Donald M. Telescoping pole trailer. 3,133,651, 5–19–64, Cl. 214—77.
Cripe, Earnest C., to Independent Products Co. Liftable vehicle top. 3,155,423, 11–3–64, Cl. 296—100.
Cripe, Maxwell L., to The Bendix Corp. Multi-position vacuum motor. 3,125,001, 3–17–64, Cl. 91—357.
Cripe, Robert W., and N. M. Greene. Monorail system. 3,144,836, 8–18–64, Cl. 104—103.
Cripps, Harry N., to E. I. du Pont de Nemours and Co. $\Delta^{9,10}$-octalins. 3,145,219, 8–18–64, Cl. 260—346.3.
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Edwards, Lawrence J., Criscione, and Pearson. 3,156,-530.
Criscuolo, James M. Sewer cleaning device. 3,134,119, 5–26–64, Cl. 15—104.3.
Crise, Wilford P., to Jeffrey Galion Mfg. Co. Wiper mechanism for screening apparatus. 3,144,406, 8–11–64, Cl. 210—159.
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Crisp, Charles D. Baby bottle holding device. 3,120,368, 2–4–64, Cl. 248—103.
Crispin, Thayer S., to Douglas Aircraft Co., Inc. Metal working machine. 3,154,979, 11–3–64, Cl. 78—49.
Criss, George B., to Hughes Aircraft Co. Ferrite single sideband modulator. 3,117,290, 1–7–64, Cl. 332—45.
Crist, Philip W., to Sperry Rand Corp. Tunable regenerative feedback amplifier having constant attenuation variable phase shift network. 3,146,407, 8–25–64, Cl. 331—136.
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Strebinger, Richard R., Criswell, and Wintrode. 3,139,-894.
Crites, Robert L. Runner attached teeth and scraper leveler. 3,122,209, 2–25–64, Cl. 172—188.
Croan, Norman, to Massachusetts Leather Products Co. Contact lens case. 3,124,240, 3–10–64, Cl. 206—5.
Croasdaile, Frederick G., to Oxygenaire (London) Ltd. Incubators for premature infants. 3,158,150, 11–24–64, Cl. 128—1.
Crocco, Richard A., and C. Carey, to Curtiss-Wright Corp. Liquid injection system with damper means. 3,159,349, 12–1–64, Cl. 239—453.
Crocker, Bryant W., to United States of America, Army. Carbon-bonded refractory casting mold and process for fabrication thereof. 3,153,825, 10–27–64, Cl. 22—193.
Crocker, Clark F., and M. Prager, to Raytheon Co. Analog-to-digital converter system. 3,156,913, 11–10–64, Cl. 340—347.
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Stephenson, Carl G., Crocker, and Bismeyer. 3,159,307.
Crocker, H. S., Co., Inc.: *See*—
Le Vesconte, Ed. 3,154,215.
Crocker, John C. Picker stick checking mechanism for looms. 3,131,730, 5–5–64, Cl. 139—165.
Crocker, Walter C., to High Vacuum Equipment Corp. Seal for vacuum chambers. 3,143,240, 8–4–64, Cl. 220—46.
Crockett, Clarence V., and W. M. Kennedy, to General Motors Corp. Engine-transmission mechanism and control for motor vehicles and the like. 3,135,134, 6–2–64, Cl. 74—661.
Crockwell, Douglass. Camera. 3,139,015, 6–30–64, Cl. 95—17.
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Heinmiller, Joseph W. 3,149,506.
Croft, Arthur, and E. Whiteley, to Crofts (Engineers) Ltd. Magnetic clutches and brakes. 3,158,243, 11–24–64, Cl. 192—84.
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Powell, George W., and Croft. 3,151,418.
Croft, Richard D.: *See*—
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Brooks, Chester E., Crofutt, Henry, and Sand. 3,123,-674.
Croisant, Harold W., J. A. Easley, and M. H. Fishaber, to The Dow Chemical Co. Powderless etching bath additive. 3,152,083, 10–6–64, Cl. 252—79.4.
Croll, Samuel W., Jr.: *See*—
Hightower, John R., and Croll. 3,150,496.
Crom, John M. Method of making a liquid impervious wall. 3,120,047, 2–4–64, Cl. 264—32.
Cromer, Charles F., to Westinghouse Electric Corp. Double-break circuit interrupters of the gas-blast type with vented intermediate contacts. 3,160,726, 12–8–64, Cl. 200—148.
Cromie, Harry W., to Surgitool Inc. Prosthetic sutureless heart valve. 3,143,742, 8–11–64, Cl. 3—1.
Crommen, Roger C. L., to Compagnie Crouzet. Automatic telephone call device. 3,129,295, 4–14–64, Cl. 179—90.
Cromoga, Walter V. Trolling plane. 3,135,065, 6–2–64, Cl. 43—43.13.
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Bergstrom, Carl P., and Dion. 3,128,796.
Bonner, William J. 3,118,179.
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Constantine, Thomas T., and Wells. 3,125,485.
Eltonhead, Robert W. 3,123,596.
Feeman, James F. 3,142,669.
Leblanc, Raymond R. 3,155,282.
Mosher, Melville C. 3,127,912.
Nelson, Alden W. 3,119,149.
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Pearson, Lincoln E. 3,126,584.
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Crone, Alfred F., to Acme Highway Products Corp. Transverse joint for pavements. 3,147,677, 9–8–64, Cl. 94—17.
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Cronelid, Paul H., and C. S. Hocking, to Aktiebolaget Electrolux. Absorption refrigeration. 3,130,564, 4–28–64, Cl. 62—487.
Cronheim, Richard B. Food shredder and chopper. 3,121,450, 2–18–64, Cl. 146—177.
Cronheim, Richard B. Hard-boiled egg cutter. 3,145,743, 8–25–64, Cl. 146—2.
Cronholm, Frederick P., ½ to V. G. Dreesman. Torque limiting coupling and positive clutch mechanism. 3,157,258, 11–17–64, Cl. 192—48.
Cronin, Albert W., and T. R. McDonald, to Ingersoll-Rand Co. Method of resharpening cutter blades having a contoured cutting edge. 3,162,987, 12–29–64, Cl. 51—288.
Cronin, Denis W. Light shoe sole assembly. 3,145,487, 8–25–64, Cl. 36—9.
Cronin, Herbert D., to The Black and Decker Mfg. Co. Blade assembly. 3,161,955, 12–22–64, Cl. 30—225.
Cronquist, Donald H., and R. C. Treseder, to International Business Machines Corp. Record eccentricity detector and centering arrangement for recording machines. 3,156,-918, 11–10–64, Cl. 346—74.
Crook, David K. Lettering scriber. 3,127,679, 4–7–64, Cl. 33—24.
Crooke, Donald W. Instant spinout hook remover. 3,154,879, 11–3–64, Cl. 43—53.5.
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Crooks, Harry M., Jr., to Parke, Davis & Co. Oxytocin citrate. 3,121,072, 2–11–64, Cl. 260—112.
Crooks, William R., to The Cooper-Bessemer Corp. Cooling system for internal combustion engines. 3,134,371, 5–26–64, Cl. 123—41.31.
Crooks, William R., to The Cooper-Bessemer Corp. Method and apparatus for refrigerating combustion air for internal combustion engines. 3,141,293, 7–21–64, Cl. 60—13.
Crooks, William R., to The Cooper-Bessemer Corp. Slurry system for internal combustion engines. 3,145,694, 8–25–64, Cl. 123—25.
Crooks, William R., to The Cooper-Bessemer Corp. Combustion engine for burning either high or low specific heat fuels. 3,145,698, 8–25–64, Cl. 123—120.
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Cropp, David I., C. C. Jordan, and R. W. Lingo, to Saegertown Glasseals, Inc. Bead loader for an assembly machine. 3,124,861, 3–17–64, Cl. 29—25.3.
Cropp, David I., C. C. Jordan, and R. W. Lingo, to Saegertown Glasseals, Inc. Machine for assembling electrical components. 3,128,529, 4–14–64, Cl. 29—25.2.
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Crosby, George C., and H. W. Trechsel, to Impulse Turbine Co. Liquid piston turbine engine. 3,121,311, 2–18–64, Cl. 60—39.34.
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Croshaw, Douglas W., A. Dowley, H. Roberts, and J. S. C. Patey, to Service (Engineers) Ltd. Ceramic ware towing device. 3,146,552, 9–1–64, Cl. 51—62.
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Cross, Alexander D., to Syntex Corp. Δ^1 and $\Delta^{1,3}$-pregnenes and derivatives thereof. 3,117,144, 1–7–64, Cl. 260—397.45.
Cross, Alexander D., to Syntex Corp. Process for conversion of 2,19-cyclo steroids into 10α steroids. 3,139,426, 6–30–64, Cl. 260—239.55.
Cross, Alexander D., to Syntex Corp. 2,19-cyclo-pregnane derivatives. 3,158,604, 11–24–64, Cl. 260—239.55.
Cross, Alexander D., to Syntex Corp. 2,19-cyclo-derivatives of cortical hormones. 3.158,605, 11–24–64, Cl. 260—239.55.
Cross, Alexander D., to Syntex Corp. 17-tetrahydrophranyl ethers of 2-methyl, 3-keto androstanes. 3,158,607, 11–24–64, Cl. 260—239.55.
Cross, Alexander D., to Syntex Corp. 2,19-cyclo steroids and process therefor. 3,158,630, 11–24–64, Cl. 260—397.4.
Cross, Alexander D., and A. Bowers, to Syntex Corp. 3-Halo-Δ^1 and 1-halo-Δ^2 androstenes and process thereof. 3,127,-429, 3–31–64, Cl. 260—397.5.
Cross, Alexander D., F. A. Kincl, and A. Bowers, to Syntex Corp. 6-oxa- and 6-aza-steroids. 3,150,140, 9–22–64, Cl. 260—287.
Cross, Alexander D., and A. Bowers, to Syntex Corp. Novel Δ^1-3-desoxyandrostene and $\Delta^{1,3}$-3-desoxyandrostadiene derivatives. 3,156,711, 11–10–64, Cl. 260—397.5.
Cross, Alexander D., and A. Bowers, to Syntex Corp. 2α-methyl-Δ^3-androstene-17-hydrocarbon derivatives. 3,163,-663, 12–29–64, Cl. 260—397.5.
Cross, Allen S., 1/10 to E. C. Sweeney. Resuscitation apparatus. 3,124,124, 3–10–64, Cl. 128—29.
Cross, Cedric B., to Package Machinery Co. Article feeding device for supplying groups of articles to packaging instrumentalities. 3,154,188, 10–27–64, Cl. 198—34.
Cross, Charles D., to Natco Corp. Brick packaging apparatus 3,125,840, 3–24–64, Cl. 53—157.
Cross, Charles K., S. Kairys, and M. C. Attwell, to Canada Packers Ltd. Recovery of complex lipid material and preparation of corresponding fatty acid alkyl esters. 3,128,268, 4–7–64, Cl. 260—210.
Cross, Chester B., D. R. Ecker, and O. L. Stein, to Union Carbide Corp. Artificial graphite process. 3,116,975, 1–7–64, Cl. 23—209.4.
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Martens, Herbert A. 3,133,456.
Martens, Herbert A. 3,133,457.
Cross, Eason, Jr., and E. K. Mills, Jr. Catch mechanism. 3,144,166, 8–11–64, Cl. 220—60.
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Cross, Gordon B., to Tennessee Valley Authority. Mechanical coal sampler. 3,158.030, 11–24–64, Cl. 73—423.
Cross, Gordon G., to The Standard Oil Co. Removal of saturated carbonyl compounds from unsaturated nitriles. 3,155,599, 11–3–64, Cl. 202—42.
Cross, John W., Jr.: *See*—
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Cross, Owen H., to Pullman Inc. Method and apparatus for controlling the cooling zone of a tunnel kiln. 3,142,884, 8–4–64, Cl. 25—142.
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Cross, Willis J., Jr., to Air Products and Chemicals, Inc. Quench system for synthetic crude. 3,133,014, 5–12–64, Cl. 208—348.
Cross, Willis J., Jr., to Air Products and Chemicals, Inc. Contact mass make-up. 3,149,924, 9–22–64, Cl. 23—288.
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Croswell, William H., to Ranco Inc. Lock nut devices. 3,163,-195, 12–29–64, Cl. 151—7.
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Crouch, Lindsley B., and A. B. Taylor, to Cuba Specialty Mfg. Co., Inc. Bird feeder. 3,151,600, 10–6–64, Cl. 119—51.
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Jeffers, Walter M. 3,146,421.
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Crouthamel, Carl E., and M. S. Foster, to United States of America, Atomic Energy Commission. Apparatus for converting heat into electricity. 3,119,723, 1–28–64, Cl. 136—86.
Crouzet, Charles, to Moulinage et Retorderie de Chavanoy. Process for the production of high bulk yarns. 3,137,119, 6–16–64, Cl. 57—157.
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Crouzet, Henri, to Moulinage et Retorderie de Chavanoz. Production of bulked ply yarns of balanced tensile strength and the yarn. 3,117,410, 1–14–64, Cl. 57—140.
Crow, Jack H., to Nuclear Corp. of America, Inc. Arabic numeral display having binary code conversion matrix. 3,146,-436, 8–25–64, Cl. 340—336.
Crowcroft, Peter L., to Imperial Chemical Industries Ltd. Apparatus for producing frequency changes by oppositely varying two inductors. 3,127,571, 3–31–64, Cl. 331—40.
Crowder, Norman A., and F. G. Nickl, to U.S. Industries, Inc. Instruction system. 3,123,920, 3–10–64, Cl. 35—9.
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Crowe, Curtis W., and R. G. Duranleau, to The Dow Chemical Co. Method of removal of organic fouling deposits employing nitrosylsulfuric acid composition. 3,132,052, 5–5–64, Cl. 134—28.
Crowe, George A., Jr., to Johnson & Johnson. Flexible absorbent sheet. 3,122,140, 2–25–64, Cl. 128—296.
Crowe, George A., Jr., to Johnson & Johnson. Flexible absorbent sheet. 3,122,141, 2–25–64, Cl. 128—296.
Crowe, George A., Jr., to Johnson & Johnson. Absorbent product. 3,122,142, 2–25–64, Cl. 128—296.
Crowe, George A., Jr., to Johnson & Johnson. Flexible absorbent sheet. 3,156,242, 11–10–64, Cl. 128—96.
Crowe, John E., J. G. Osburn, R. E. Stobbe, G. R. F. Weber, and F. Zankl, to Kearney & Trecker Corp. Machine tool control system. 3,163,087, 12–29–64, Cl. 90—21.
Crowe, Marvin N. Portable tube dryer with rotary agitator and external heating means. 3,132,007, 5–5–64, Cl. 34—183.
Crowe, Marvin N. Preparation of pre-cooked food product. 3,132,949, 5–12–64, Cl. 99—100.
Crowe, Talmadge L., to Baker Oil Tools, Inc. Subsurface retrieving apparatus. 3,150 718, 9–29–64, Cl. 166—99.
Crowe, Thomas. Safety means for protecting internal combustion engines upon loss of oil pressure. 3,116,729, 1–7–64, Cl. 123—179.
Crowe, William G., to Mid-West Abrasive Co. Stone assembly holder. 3.138,902, 6–30–64, Cl. 51—184.3.
Crowell, Alice R., and H. E. Lewis, to Surgical Appliance Industries, Inc. Stump shrinker. 3,138,156, 6–23–64, Cl. 128—157.
Crowell, Merton H., to Bell Telephone Laboratories, Inc. Electron ribbon beam encoder tube with beam tilt control. 3,151,270, 9–29–64, Cl. 315—21.
Crowell, Merton H., to Bell Telephone Laboratories, Inc. Modulating device for cathode ray display tube. 3,151,272, 9–29–64, Cl. 315—30.
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Harris, William C., and Crowell. 3,158,094.
Crowl, James S., to Acheson Industries, Inc. Method for making molybdenum disulfide. 3,156,420, 11–10–64, Cl. 241—16.
Crowl, Ralph E., and D. W. Brown. Electrical cable insulation tapering tool. 3,125,835, 3–24–64, Cl. 51—194.

Crowley, Duncan J., to E. I. du Pont de Nemours and Co. Preparation of 4,4'-diaminodiphenyldisulfides. 3,150,186, 9–22–64, Cl. 260—580.
Crowley, Edgar I., J. S. Mackay, M. Manes, and F. J. Vancheri, to Pittsburgh Chemical Co. Converting urea to melamine in the gas phase over a fluidized bed of a porous particulate material. 3,158,611, 11–24–64, Cl. 260—248.
Crowley, Gerald J., to United Shoe Machinery Corp. Premolded outsoles. 3,146,536, 9–1–64, Cl. 36—32.
Crowley, John E., to Minneapolis-Honeywell Regulator Co. Electric control apparatus. 3,124,773, 3–10–64, Cl. 338—150.
Crowley, John E., to Minneapolis-Honeywell Regulator Co. Printed circuit synchro. 3,144,570, 8–11–64, Cl. 310—13.
Crowley, Michael S., to Standard Oil Co. Calcium-aluminate cement and method. 3,150,992, 9–29–64, Cl. 106—104.
Crowley, Ray W. Target game apparatus. 3,134,594, 5–26–64, Cl. 273—105.
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Schell, Roger E. 3,157,332.
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Crown, James A., to Philip Morris, Inc. Adjustable injector razor. 3,128,551, 4–14–64, Cl. 30—63.
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Herschler, Robert J. 3,148,049.
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Herschler, Robert J., and Jaffe. 3,128,222.
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Crownover, Joseph S., to Litton Industries of California. Diode bridge-gated stepping register. 3,130,389, 4–21–64, Cl. 340—174.
Crownover, Joseph W., to Control Data Corp. Ferroelectric data storage system and method. 3,132,326, 5–5–64, Cl. 340—173.2.
Crownover, Joseph W., 25% to W. W. Haefliger. Twist responsive switch assembly. 3,155,791, 11–3–64, Cl. 200—87.
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Crowson, Fred B., and V. M. Roberts, to Bell Telephone Laboratories, Inc. Automatic telegraph test line. 3,136,851, 6–9–64, Cl. 178—69.
Crowther, Edmond C. Electrical connectors. 3,152,855, 10–13–64, Cl. 339—246.
Crowther, Henry R., to Illinois Tool Works Inc. Self locking fastener having deformed threaded portion. 3,118,479, 1–21–64, Cl. 151—22.
Crowther, Milton, W. L. Beaumont, and J. C. Kesler, to Proc tor Chemical Co., Inc. Preparation of sulfones. 3,118,952, 1–21–64, Cl. 260—607.
Crowther Russell L., to General Electric Co. Nuclear reactor fuel. 3,147,191, 9–1–64, Cl. 176—68.
Croxton, Eugene L., and D. E. Park, to Ethyl Corp. Recovery of alkyllead compounds. 3,143,481, 8–4–64, Cl. 202—46.
Croy, Fred E., and R. D. Lochner. Beverage dispenser and pump. 3,129,857, 4–21–64, Cl. 222—400.8.
Croy, John E., to Burroughs Corp. Electronic multiplier for a variable field length computer. 3,161,764, 12–15–64, Cl. 235—160.
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Cruickshank, George A., deceased, by A. M. Cruickshank, administratrix, to Nalco Chemical Co. Slime-controlled industrial process water system and process. 3,151,020, 9–29–64, Cl. 162—190.
Cruickshank, Philip A., and J. C. Sheehan, to Research Institute for Medicine and Chemistry, Inc. Process for forming dialkylamino ketones and N-alkyllactams. 3,143,547, 8–4–64, Cl. 260—247.7.
Cruikshank, Donald B., to The Steel Equipment Co. Ltd. Adjustable feet for desks and the like. 3,131,505, 5–5–64, Cl. 45—139.
Cruise, John H., and H. Schroeder, to Combustion Engineering, Inc. Method of pre-mixing CO gas and air in a CO fired steam generator. 3,119,440, 1–28–64, Cl. 158—117.5.
Crum, Forrest H., to General Research Corp. Electric liquid dispenser. 3,122,279, 2–25–64, Cl. 222—308.
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Cruse, Lee H., to Foster Mfg. Co., Inc. Valved hose couplings. 3,127,149, 3–31–64, Cl. 251—149.9.
Cruse, Oliver B., to Wagner Electric Corp. Brake operating mechanism. 3,127,818, 4–7–64, Cl. 92—63.
Cruse, Oliver B., to Wagner Electric Corp. Friction device operating mechanism. 3,149,542, 9–22–64, Cl. 92—128.
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Talley, Dolen E. 3,117,401.
Crutchfield, Alpheus S. Equipment for cleaning poultry houses. 3,160,141, 12–8–64, Cl. 119—22.
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Bowden, Eldred R., and Crute. 3,130,025.
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Wagner, George S. 3,116,943.
Cryo-Sonics, Inc.: *See*—
Brush, Birchard M. 3,154,212.
Cryovac, Inc.: *See*—
Hickey, Thomas N. 3,122,896.
Hood, Charles B., Jr. 3,125,863.
Crystal Ice & Cold Storage Co.: *See*—
Powell, Clarence C. 3,123,478.
Crystal Preforming and Packaging, Inc.: *See*—
Kelly, Norman A. 3,118.586.
Kelly, Norman A. 3,162,349.
Csakvari, Tibor: *See*—
Meyerhoff, Alfred, and Csakvari. 3,117,398.
Csaszar, Albert K., to The Pure Oil Co. Solvent injection petroleum recovery method. 3,127,934, 4–7–64, Cl. 66—9.
Csaszar, Albert K., to The Pure Oil Co. Solvent-waterflood oil recovery process. 3,163,214, 12–29–64, Cl. 166—9.
Csepel Vas-es Femmuvek: *See*—
Katona, Jeno. 3,125,932.
Cserny, Zoltan L., and G. R. Harlow, to Norton Co. Apparatus for manufacturing ceramic articles. 3,119,164, 1–28–64, Cl. 25—1.

Csicsatka, Antal, to General Electric Co. Circuitry for multiplex transmission of FM stereo signals with pilot signal. 3,122,610, 2–25–64, Cl. 179—15.
Csillag, Istvan, to Associated Electrical Industries Ltd. Means for the discharge of liquid from rotors. 3,163,396, 12–29–64, Cl. 253—39.15.
Csimma, Sandor: *See*—
Creed, Sherman H., and Csimma. 3,144,061.
Čtvrtník, Josef: *See*—
Mayer, Jiří, Ctvrtník, and Nemeček. 3,123,616.
Ctvrtnik, Josef, J. Mayer, and O. Nemeck, to Spofa, sdruzeni podniku pro zdravotnickou vyrobu. 4-(α-oxobutyl)-1,2-diphenyl-3,5-dioxopyrazolidine derivatives. 3,153,655, 10–20–64, Cl. 260—310.
Cuba Specialty Mfg. Co., Inc.: *See*—
Crouch, Lindsley B., and Taylor. 3,151,600.
Cubbage, Henry D.: *See*—
Leidy, Kenneth L., and Cubbage. 3,139,620.
Cubberley, Mitchell H. Safety ski binding of the strap or long thong harness type. 3,145,028, 8–18–64, Cl. 280—11.35.
Cubberley, Richard H., and J. P. Orsulak, to The Flintkote Co. Emulsion coating composition. 3,155,528, 11–3–64, Cl. 106—278.
Cubic Corp.: *See*—
Ford, James R., and Bear. 3,140,487.
Wasserman, Philip D. 3,149,282.
Zable, Walter J., Werner, and Thompson. 3,148,369.
Cucarola, Joe F. Automatic bale ricker. 3,148,781, 9–15–64, Cl. 214—6.
Cucksey, Edward L.: *See*—
Du Buis, Edwin O., and Cucksey. 3,116,587.
Cuckson, Eric E.: *See*—
Jones, Arthur L., and Cuckson. 3,141,217.
Cuckson, W. E., & Sons Proprietary Ltd.: *See*—
Jones, Arthur L., and Cuckson. 3,141,217.
Cuculo, John A., to E. I. du Pont de Nemours and Co. Process of producing polycaprolactam monofilaments. 3,156,750, 11–10–64, Cl. 264—178.
Cudahy, George F. Apparatus for compressing fluids. 3,149,773, 9–22–64, Cl. 230—56.
Cuddihy, William F.: *See*—
Gage, Robert M., Skinner, Cuddihy, and Sundstrom. 3,130,292.
Cugini, John A., to Draper Corp. Positive feed for donning mechanism. 3,121,988, 2–25–64, Cl. 57—53.
Culbertson, George T., to T. W. Hallerberg. Time delay circuit. 3,125,707, 3–17–64, Cl. 317—142.
Culbertson, George T., to D. M. Hallerberg. Series operated relay alarm system. 3,128,457, 4–7–64, Cl. 340—213.1.
Culbertson, George T., to T. W. Hallerberg. Transistor timing device. 3,142,004, 7–21–64, Cl. 317—142.
Culbertson, Harry M.: *See*—
Tashlick, Irving, and Culbertson. 3,153,021.
Culbertson, William J., Jr., and T. D. Nevens, to The Oil Shale Corp. Method for making cement. 3,127,455, 3–31–64, Cl. 263—53.
Cull, Jay A., and T. Hooker, to Hooker Chemical Corp. Hydrogen halide recovery. 3,140,155, 7–7–64, Cl. 23—277.
Cull, Neville L.: *See*—
Aldridge, Clyde L., and Cull. 3,147,281.
Cull, Neville L., and C. L. Aldridge, to Esso Research and Engineering Co. Preparation of high molecular weight oxygenated compounds. 3,118,948, 1–21–64, Cl. 260—604.
Cull, Neville L., and C. L. Aldridge, to Esso Research and Engineering Co. Preparation of dimeric oxygenated compounds. 3,118,949, 1–21–64, Cl. 260—604.
Cull, Neville L., and G. P. Hammer, to Esso Research and Engineering Co. Mixtures of resins from oxidized aromatic extracts and oxidized liquid diolefin polymers. 3,129,107, 4–14–64, Cl. 106—285.
Cull, William, to Birfield Engineering Ltd. Universal joints. 3,151,473, 10–6–64, Cl. 64—8.
Cullen-Friestedt Co.: *See*—
Buchik, George, and Yu. 3,155,416.
Kaplan, Louis G., Benes, and Yu. 3,153,555.
Cullen, Roy H., and L. D. Richards; said Richards assor. to said Cullen. Method of manufacturing wrapped pressure hose. 3,136,113, 6–9–64, Cl. 57—160.
Cullen, Willard R., and D. R. Milne, said Milne, assor. to said Cullen. Motorized time glass. 3,151,442, 10–6–64, Cl. 58—144.
Culley, Jack R., to The Pillsbury Co. Inner can selling message. 3,154,237, 10–27–64, Cl. 229—51.
Culligan, Inc.: *See*—
Lyall, Charles E. 3,159,306.
Mahlstedt, Donald A., and Hintz. 3,146,788.
Schulze, Robert E., Jauch, and Kruckeberg. 3,119,522.
Schulze, Robert E., and Morrison. 3,153,347.
Cullin, Hugh J.: *See*—
Dranetz, Abraham I., and Cullin. 3,148,290.
Cullis, John, Jr., to Burroughs Corp. Counter circuit and driver therefor. 3,147,398, 9–1–64, Cl. 315—84.6.
Cullo, Leonard A.: *See*—
Witheford, John M., and Cullo. 3,154,603.
Cully, Donald C.: *See*—
Burkley, Ralph A., Cully, and Folk. 3,135,645.
Culp, Herbert P., to Friend Mfg. Corp. Pesticide distributing apparatus with augmented air blast pattern. 3,151,812, 10–6–64, Cl. 239—78.
Culp, Neil J., to The Carpenter Steel Co. Alloy steel. 3,136,665, 6–9–64, Cl. 148—36.
Culpepper, Abner A. Device for effecting water-flow from a roof or the like. 3,141,955, 7–21–64, Cl. 219—213.
Culpepper, Fred W., Jr., to Southern Illinois University Foundation. Educational device. 3,154,862, 11–3–64, Cl. 35—9.
Culpepper, James L. Ventilated curtain. 3,160,199, 12–8–64, Cl. 160—130.
Culpepper, John W., E. J. Stahnke, and A. L. Winkler; said Stahnke and Winkler assors. to Acme Steel Co. Strap dispenser. 3,162,394, 12–22–64, Cl. 242—78.6.
Culver, Irven H., to Lockheed Aircraft Corp. Rotor. 3,135,334, 6–2–64, Cl. 170—160.13.
Culver, Irven H., and H. C. Danielson, to Lockheed Aircraft Corp. Helicopter control linkage for automatic pitch and roll damping. 3,120,276, 2–4–64, Cl. 170—160.25.
Culver, Laurence R.: *See*—
Muniz, Roberto O., and Culver. 3,160,811.
Culver, Leonard J., to Foster Wheeler Corp. Tube support arrangement. 3,163,155, 12–29–64, Cl. 122—510.
Culver, Louis A. Unattended automobile washing and cleaning apparatus. 3,162,883, 12–29–64, Cl. 15—302.
Culver, William H., to Pennsalt Chemicals Corp. Method for defoliating and dessicating cotton. 3,130,035, 4–21–64, Cl. 71—2.2.
Culver, William H., to Research Corp. Optical maser. 3,136,959, 6–9–64, Cl. 331—94.5.
Cumberland Case Co.: *See*—
Robinson, William W., Jr., and Camp. 3,144,001.
Robinson, William W., Jr., and Camp. 3,157,273.
Cumbers, Michael B., and E. Ribchester, to Hazeltine Research, Inc. Broad-band electric amplifier with plural outputs at different potential levels. 3,127,472, 3–31–64, Cl. 178—5.4.
Cuming, William R., and E. F. Buckley, to Emerson & Cuming, Inc. Microwave reflector. 3,145,382, 8–18–64, Cl. 343—18.
Cumming, James C.: *See*—
House, Bryan E., and Cumming. 3,154,178.
Cumming, James D. Tension indicating device. 3,133,468, 5–19–64, Cl. 85—62.
Cumming, John, to G. S. Blakeslee & Co. Water level indicator. 3,127,902, 4–7–64, Cl. 134—113.
Cumming, Ronald W.: *See*—
Baxter, John R., Cumming, Fraser, and Lane. 3,152,316.
Cummings, Anna L.: *See*—
Cummings, Frank B. 3,133,573.
Cummings, Carl M. Apparatus for attaching a strip to a sheet. 3,128,219, 4–7–64, Cl. 156—584.
Cummings, Frank B., deceased; A. L. Cummings, executrix. Seed potato cutter with feed chain. 3,133,573, 5–19–64, Cl. 146—163.
Cummings, Harold K.: *See*—
Dinerstein, Samuel, and Cummings. 3,137,122.
Cummings, Howard B., to Shenango China, Inc. Gloss setter. 3,137,910, 6–23–64, Cl. 25—153.
Cummings, Robert E.: *See*—
Tauschek, Max J., and Cummings. 3,1147,588.
Cummings, Robert L., to Thompson Ramo Wooldridge Inc. Solar power plant. 3,152,260, 10–6–64, Cl. 290—52.
Cummings, Robert L., to Dominion Containers Ltd. Egg carton. 3,152,747, 10–13–64, Cl. 229—28.
Cummings, Roger M. Roller skate. 3,152,812, 10–13–64, Cl. 280—11.19.
Cummins, Clessie L.: *See*—
Cummins, Clessie L., Jr. 3,119,381.
Cummins, Clessie L. and Clessie L. Cummins, Jr.; said Cummins, Jr. assor. to C. L. Cummins. Fuel injector. 3,131,866, 5–5–64, Cl. 239—90.
Cummins, Clessie L., and Clessie L. Cummins, Jr.; said Cummins Jr. assor. to C. L. Cummins. Fuel pump and distributing apparatus. 3,143,104, 8–4–64, Cl. 123—140.
Cummins, Clessie L., Jr.: *See*—
Cummins, Clessie L. and Clessie L. Cummins, Jr. 3,131,866.
Cummins, Clessie L., and Clessie L. Cummins, Jr. 3,143,104.
Cummins, Clessie L., Jr., to Clessie L. Cummins. Fuel-supply system. 3,119,381, 1–28–64, Cl. 123—140.
Cummins, Curtis F., to Caterpillar Tractor Co. Sealing means for liquid cooled friction couples. 3,136,389, 6–9–64, Cl. 188—72.
Cummins-Chicago Corp.: *See*—
Dreyer, William H. 3,119,295.
Dreyer, William H., and Quinn. 3,131,857.
Cummins, Earl W., to E. I. du Pont de Nemours and Co. Novel polymeric thiadiazinethiones. 3,126,378, 3–24–64, Cl. 260—243.
Cummins Engine Co., Inc.: *See*—
Hergenrader, Wilmer J., and Colby. 3,144,055.
Link, Fred W. 3,139,875.
Reiners, Neville M. 3,125,078.
Reiners, Neville M. 3,146,949.
Reiners, Neville M. 3,159,152.
Schmidt, Robert C. 3,128,750.
Schmidt, Robert C. 3,134,306.
Cummins, George E.: *See*—
Lowry, Harold D., and Cummins. 3,157,103.
Cummins, Richard E., to International Business Machines Corp. Transducer positioning mechanism in a random access memory system. 3,156,906, 11–10–64, Cl. 340—174.1.
Cumberland Case Co.: *See*—
Robinson, William W., Jr., and Camp. 3,161,286.

Cunetta, Joseph. Sewage treatment method and apparatus. 3,119,770, 1–28–64, Cl. 210—15.
Cunha, Harold, and H. C. H. Hsieh, to Fairchild Camera and Instrument Corp. Pre-wetter. 3,137,306, 6–16–64, Cl. 134—46.
Cunnien, James M., to Honeywell Inc. Two position visual display indicator. 3,162,849, 12–22–64, Cl. 340—373.
Cunniff, Mark L. Slipper. 3,157,954, 11–24–64, Cl. 36—2.5.
Cunningham, Arthur W. Safety mechanism for portable electric drills. 3,135,137, 6–2–64, Cl. 77—7.
Cunningham, Arthur W. Indexing mechanism. 3,138,967, 6–30–64, Cl. 74—400.
Cunningham, David R., L. E. Somers, J. D. Stone, and A. W. Hartman, to General Electric Co. Document recording systems. 3,141,394, 7–21–64, Cl. 95—1.7.
Cunningham, Ervin L.: *See*—
Campbell, Floyd R. 3,154,880.
Cunningham, George L., to W. R. Grace & Co. Production of alkali metal fluoborate. 3,119,654, 1–28–64, Cl. 23—59.
Cunningham, James B. Cushioning device for underframes. 3,150,780, 9–29–64, Cl. 213—32.
Cunningham, Joseph E., and J. L. Smith. Cotton harvester. 3,127,036, 3–31–64, Cl. 214—83.1.
Cunningham, Leonard. Dart-like projectile with elongated tail of resilient, compressible material. 3,161,410, 12–15–64, Cl. 273—106.5.
Cunningham, Paul M., and J. F. Beckerich, to Collins Radio Co. Meteorological satellite radar. 3,135,957, 6–2–64, Cl. 343—17.2.
Cunningham, Paul M., and T. P. Kaufman, to Collins Radio Co. Iso-echo interference blanking with output a logarithmic function of radio frequency energy input. 3,160,816, 12–8–64, Cl. 325—475.
Cunningham, Richard G.: *See*—
Price, James R., and Cunningham. 3,160,657.
Sprague, Stanley R., and Cunningham. 3,153,632.
Cunningham, Robert A., to Hughes Tool Co. Bearing seal. 3,137,508, 6–16–64, Cl. 277—95.
Cunningham, Wallace, to Winget Ltd. Mobile material mixers and agitators, particularly concrete mixers and agitators. 3,128,631, 4–14–64, Cl. 74—15.84.
Cunningham, William, to Imperial Chemical Industries Ltd. Apparatus for cutting continuously extruded material. 3,128,500, 4–14–64, Cl. 18—12.
Cuny, Robert, to Brown, Boveri & Cie, Aktiengesellschaft. Arrangement for indicating leakage between cooling systems of turbo-generators. 3,122,668, 2–25–64, Cl. 310—53.
Cuny, Robert, to Brown, Boveri & Cie, Aktiengesellschaft. Shaft seal for gas-filled machine. 3,131,939, 5–5–64, Cl. 277—15.
Cuozzi, Concetta, to H. M. Plehn. Foundation garment. 3,153,416, 10–20–64, Cl. 128—528.
Cupery, Martin E., R. P. Jackson, and W. H. Wright, to E. I. du Pont de Nemours and Co. Method of applying protective coatings to metals. 3,133,829, 5–19–64, Cl. 117—127.
Cupolo, John: *See*—
Underwood, Raymond L., and Cupolo. 3,154,166.
Cupples, James L.: *See*—
Tigrett, John B., and Cupples. 3,162,866.
Curatola, Paul C., to Sarco Co., Inc. Thermodynamic trap. 3,162,208, 12–22–64, Cl. 137—183.
Curbmaster of America, Inc.: *See*—
Larsen, Burnham L. and B. J. 3,161,115.
Larsen, Burnham L. and B. J. 3,161,116.
Curby, William A. Transducer temperature-sensing unit. 3,144,629, 8–18–64, Cl. 338—28.
Curci, Alfred. Disposable combination safety-razor and blade magazine. 3,137,940, 6–23–64, Cl. 30—40.
Curelich, Joseph L. Swimming swan. 3,120,833, 2–11–64, Cl. 115—25.
Curello, Charles: *See*—
Nickerson, Basil S., and Curello. 3,132,611.
Curfman, Ronald L., and R. W. Just, to Standard Oil Co. Tube puller. 3,149,412, 9–22–64, Cl. 29—202.
Curlett, John: *See*—
Gurries, Raymond A., and Curlett. 3,155,020.
Curlett, John, and R. A. Gurries, to Gurries Mfg. Co. Automatic level control system for construction machines. 3,142,915, 8–4–64, Cl. 37—180.
Curlett, John, and R. A. Gurries, to Gurries Mfg. Co. Automatic level control system for construction machines. 3,158,945, 12–1–64, Cl. 37—180.
Curlett, John L. G.: *See*—
Presnell, Frank G., and Curlett. Re. 25,512.
Curme, Henry G., to Eastman Kodak Co. Thermoxerography. 3,161,529, 12–15–64, Cl. 117—17.5.
Curosh, George S.: *See*—
Sabol, Albert, Blaha, and Curosh. 3,126,340.
Curran, George P.: *See*—
Batchelor, James D., Curran, Friedrich, and Gorin. 3,117,918.
Curran Industries, Inc.: *See*—
Eburn, William H., Jr., and Hamilton. 3,148,782.
Curran, John R., to International Telephone and Telegraph Corp. Hydraulic system. 3,131,601, 5–5–64, Cl. 91—3.
Curran, John V., Jr. Apparatus for bonding carpet edging. 3,134,693, 5–26–64, Cl. 118—4.
Curren, Paul G. Sighting-in targets. 3,118,674, 1–21–64, Cl. 273—102.
Currey, Charles H., A. C. L. Brown, D. W. Holbrook, G. K. Truesdale, and R. L. Freeman, to A. C. Nielson Co. System for determining whether local stations are transmitting network programs. 3,143,705, 8–4–64, Cl. 325—31.
Currey, Charles H., R. L. Freeman, D. W. Holbrook, and G. K. Truesdale, to A. C. Nielsen Co. System for determining the listening habits of wave signal receiver users. 3,148,245, 9–8–64, Cl. 179—2.
Currie, Charles A.: *See*—
Konrad, Erich H., and Currie. 3,163,500.
Currie, Courtland B., to Minneapolis-Honeywell Regulator Co. Spring adjusting means for control devices. 3,141,389, 7–21–64, Cl. 92—95.
Currie, Gerard, to General Precision, Inc. Analog to digital signal conversion. 3,145,376, 8–18–64, Cl. 340—347.
Currie, Gerard, to General Precision, Inc. Signalling system. 3,145,380, 8–18–64, Cl. 343—6.5.
Currie, Grover C. Envelope type packaging folder. 3,123,280, 3–3–64, Cl. 229—76.
Currie, Grover C., and J. A. Cook, to Somerville Industries Ltd. Machine for setting up egg cartons and the like. 3,162,099, 12–22–64, Cl. 93—37.
Currie, Lauchlin M., to American Instrument Co., Inc. Peristaltic pump. 3,140,666, 7–14–64, Cl. 103—149.
Currie, Raymond R., to Pittsburgh Plate Glass Co. Method of bleaching cotton piece goods. 3,150,918, 9–29–64, Cl. 8—111.
Curry, Byron V., Jr.: *See*—
Bonkowski, Teofil L., and Curry. 3,134,485.
Curry, Robert P., and J. C. Geedes, Jr., to Ethyl Corp. Phenol
Curry, Truman M., to The Boeing Co. Multi-component internal strain gauge balance. 3,159,027, 12–1–64, Cl. 73—147.
alkylation process. 3,133,974, 5–19–64, Cl. 260—624.
Curtenius, Frederick B. Air film table. 3,141,706, 7–21–64, Cl. 302—29.
Curtenius, Frederick B., and R. W. Polderman, to Kalamazoo Paper Co. Paper pile separating and stacking transfer apparatus. 3,146,897, 9–1–64, Cl. 214—8.5.
Curth, Otto E., to IIT Research Institute. Pressure shut-off assembly. 3,146,789, 9–1–64, Cl. 137—461.
Curti, Paul, to Louvre S.A. Cosmetic applicator with mirror. 3,159,163, 12–1–64, Cl. 132—79.
Curtin, Frank M. Multiple reel magnetic tape transport. 3,143,311, 8–4–64, Cl. 242—55.11.
Curtin-Hebert Co., Inc.: *See*—
Hine, Louis J. 3,136,096.
Olton, Dirck, Jr., and Fazioli. 3,134,206.
Curtin, Leo P., deceased; L. V. Curtin, executor. Process for cleaning textile fabrics. 3,126,555, 3–31–64, Cl. 8—149.1.
Curtin, Leo P., deceased; L. V. Curtin, executor. Easily accessible vehicles. 3,136,576, 6–9–64, Cl. 296—44.
Curtin, Leo V.: *See*—
Curtin, Leo P. 3,126,555.
Curtin, Leo P. 3,136,576.
Curtin, William J., and P. Carbery. Pulsing device. 3,119,200, 1–28–64, Cl. 46—232.
Curtis Automotive Devices, Inc.: *See*—
Schlensker, Albert L. 3,129,718.
Curtis, Adolph D. Multiple ham press. 3,155,030, 11–3–64, Cl. 100—194.
Curtis, Charles H.: *See*—
McCarty, James P., and Curtis. 3,117,734.
McCarty, James P., and Curtis. 3,125,303.
Curtis, Charles R., and R. R. Lau, to AMP Inc. Captive taper pin insertion tool. 3,135,147, 6–2–64, Cl. 81—52.35.
Curtis, Clifford. Juice extractor for vegetables and fruits. 3,122,188, 2–25–64, Cl. 146—76.
Curtis Companies, Inc.: *See*—
Jones, Merlin K. 3,145,433.
Curtis, Daniel L., to Litton Systems, Inc. Ionization and plasma acceleration apparatus. 3,159,966, 12–8–64, Cl. 60—35.5.
Curtis Development & Mfg. Co.: *See*—
Curtis, Herbert C., and Sande. 3,135,572.
Curtis Dyna-Products Corp.: *See*—
Curtis, Russell R. 3,151,454.
Curtis-Electro Lighting, Inc.: *See*—
Bucek, Edward P. 3,118,620.
Henning, Donald S. 3,120,929.
Curtis, Edgar V. and M. J. Stock rack and end gate. 3,148,912, 9–15–64, Cl. 296—50.
Curtis, Ferris V., to General Motors Corp. Cooling passages in cast aluminum cylinder heads and blocks. 3,130,461, 4–28–64, Cl. 22—203.
Curtis, Gene C. Automatic starting means for automobile engines and the like including a ball vacuum switch. 3,130,318, 4–21–64, Cl. 290—38.
Curtis, Gerald R.: *See*—
Price, John F., and Curtis. 3,161,821.
Curtis, Glenn R., to Independent Grocers' Alliance Distributing Co. Method for handling meat products. 3,140,510, 7–14–64, Cl. 17—45.
Curtis, Gordon W.. *See*—
Wheelwright, Edward H., Bonness, McDonald, and Curtis. 3,120,183.
Curtis, Helene, Industries, Inc.: *See*—
Grant, Samuel. 3,143,476.
Curtis, Henry T. Carton. 3,118,533, 1–21–64, Cl. 206—45.32.
Curtis, Herbert C., and A. Sande, to Curtis Development & Mfg. Co. Electric terminal mounting. 3,135,572, 6–2–64, Cl. 339—198.

Curtis, John C., to Joy Mfg. Co. Drilling device. 3,162,253, 12–22–64, Cl. 173—147.

Curtis, John C., D. G. Hanefeld, and W. D. Fish, to Joy Mfg. Co. Rockdrill jib and drill feed with pneumatic stinger bar. 3,137,353, 6–16–64, Cl. 175—57.

Curtis, John E.: *See*—
Nickerson, Mortimer H., Schnitzer, Curtis, and Patterson. 3,129,191.

Curtis, John L., E. H. Morris, and A. C. Walker, to Dowty Rotol Ltd. Aircraft control apparatus. 3,120,362, 2–4–64, Cl. 244—52.

Curtis, Joseph. Wrecking car attachment. 3,137,401, 6–16–64, Cl. 214—86.

Curtis Mfg. Co.: *See*—
Rybak, Frank J., and Hawley. 3,152,502.

Curtis & Marble Machine Co.: *See*—
Bell, Charles C., and Davidson. 3,119,167.
Davidson, Ralph L. 3,132,786.

Curtis, Mildred J.: *See*—
Curtis, Edgar V. and M. J. 3,148,912.

Curtis, Myron S., and H. Schoepe, to The Warner & Swasey Co. Machine tool. 3,124,985, 3–17–64, Cl. 82—2.

Curtis 1000, Inc.: *See*—
Whitman, Harlan M. 3,141,603.

Curtis Publishing Co., The: *See*—
Bille, Steven T., and Heinz. 3,132,469.

Curtis, Reid H.: *See*—
Mohler, Robert D., Curtis, and Williams. 3,162,821.

Curtis, Richard P.: *See*—
Emerson, Leonard B., and Curtis. 3,146,440.

Curtis, Russell R., to Curtis Dyna-Products Corp. Starting and fuel system for pulse jet devices. 3,151,454, 10–6–64, Cl. 60—39.77.

Curtis-Scott Co.: *See*—
Curtis, William B. 3,130,729.

Curtis, Vernie W., ½ to W. L. Curtis. Manually maneuverable row crop sprayer. 3,153,509, 10–20–64, Cl. 239—172.

Curtis, Walter L.: *See*—
Curtis, Vernie W. 3,153,509.

Curtis, William B., to Curtis-Scott Co. Surgical needle threader. 3,130,729, 4–28–64, Cl. 128—339.

Curtiss, Alan F., to Continental Can Co., Inc. Welded bail ear with segmented flange. 3,158,285, 11–24–64, Cl. 220—91.

Curtiss, Charles J.: *See*—
Shaw, Arnold E. 3,133,345.

Curtiss, Donald N., to United States Rubber Co. Apparatus for making elastomeric sheet stock. 3,142,091, 7–28–64, Cl. 18—12.

Curtiss-Wright Corp.: *See*—
Adkins, Harold T. 3,157,793.
Adkins, Harold T. 3,157,810.
Adkins, Harold T., Schneyer, and Herron. 3,134,116.
Benamy, Daniel A., Feinberg, Feoranz, and Williams. 3,131,247.
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Cusic, John W., to G. D. Searle & Co. Ether derivatives of N-benzhydryl-N′-dihydroxypropylpiperazines and homopiperazines. 3,133,925, 5–19–64, Cl. 260—268.

Cusic, John W., to G. D. Searle & Co. 1-dialkylaminoalkyl-5-diphenylmethyl-1H-tetrazoles and related compounds. 3,155,666, 11–3–64, Cl. 260—268.

Cusic, John W., and H. S. Lowrie, to G. D. Searle & Co. N-(chlorophenyl)-N-phenyl-N′-2[(hydroxy lower alkyl)-piperidino]-ethyl ureas. 3,140,286, 7–7–64, Cl. 260—268.

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Cusic, John W., and E. F. Levon, to G. D. Searle & Co. 1-benzhydryl-4-(alkyl and aralkyl) aminopiperazines. 3,159,635, 12–1–64, Cl. 260—268.

Custance, Arthur C., and O. Z. Roy, to Her Majesty the Queen in right of Canada, as represented by the Minister of National Defence. Method for determining sweat rate. 3,139,085, 6–30–64, Cl. 128—2.

Custard, George H., to United States of America, Army. Projectile. 3,120,809, 2–11–64, Cl. 102—66.

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Cutler, Clarence M., and Q. D. Dobras, to General Electric Co. Fluorescent panel lamp louver. 3,152,277, 10–6–64, Cl. 313—109.

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Cutler, Royal A., to Sterling Drug Inc. 2-sulfanilamido-4-phenoxy-1,3,5-triazine. 3,146,229, 8–25–64, Cl. 260—239.7.

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Cutukovic, Ivan M., to Velsicol Chemical Corp. 1,3-di-(*p*-cyclopenten-2-yl-phenoxy)-propanol-2. 3,118,953, 1–21–64, Cl. 260—613.

Cuzzone, Raymon, and J. R. Harvey, to General Electric Co. Brace for finned tubes. 3,163,208, 12–29–64, Cl. 165—69.

Cwycyshyn, Walter, and W. E. Rise, to General Motors Corp. Article feeding apparatus for inspection equipment. 3,135,385, 6–2–64, Cl. 209—112.

Cygnor, John E., to United Aircraft Corp. Dynamic seal improvement. 3,131,641, 5–5–64, Cl. 103—103.

Cymara, Hermann K. Silage distributor. 3,158,407, 11–24–64, Cl. 302—60.

Cymara, Hermann K. Silo distributor. 3,158,408, 11–24–64, Cl. 302—60.

Cypher, James H., to Pittsburgh Plate Glass Co. Method of shaping a vertically supported glass sheet. 3,162,521, 12–22–64, Cl. 65—106.

Cypher, James H., and C. E. Valchar, to Pittsburgh Plate Glass Co. Bending glass sheets. 3,148,968, 9–15–64, Cl. 65—106.

Cyphers, Elmer B., to Esso Research and Engineering Co Sols of metal dialkyl dithiophosphates. 3,155,615, 11–3–64, Cl. 252—32.7.

Cypress Gardens Skis, Inc.: *See*—
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Cypser, Rudolph J., R. C. Hopkins, B. Housman, R. C. Jeffrey, and D. C. Ross, to Massachusetts Institute of Technology. Control equipment. 3,162,839, 12–22–64, Cl. 340—172.5.

Cywinski, Norbert F., to Phillips Petroleum Co. Production of olefins from aldehydes and acetylenes. 3,124,622, 3–10–64, Cl. 260—682.

Cyzer, Bernard. Toothbrush with shuttingly oscillatingly and rotatingly movable cleaning and massaging elements. 3,129,449, 4–21–64, Cl. 15—28.

Czaja, Julius. Ice skates having heated blades. 3,119,921, 1–28–64, Cl. 219—19.

Czajkowski, Henry J. Sweeper attachment for cotton picking machines. 3,135,082, 6–2–64, Cl. 56—28.

Czajkowski, Henry J. Cotton harvester shield with lifter. 3,135,083, 6–2–64, Cl. 56—28.

Czapiewski, Joseph S. Metal barrel for drum top cutter. 3,161,952, 12–22–64, Cl. 30—4.

Czarev, John J. Bowling ball position indicator. 3,123,358, 3–3–64, Cl. 273—63.

Czarnecki, August. Built-in thermostatic controls for immersion heating elements. 3,135,860, 6–2–64, Cl. 219—441.

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Czerwenka, Gerhard, to Focke-Wulf Gesellschaft mit beschrankter. Jettison tanks for aircraft. 3,161,384, 12–15–64, Cl. 244—118.

Czirr, Herbert J. Means to recover a lure or the like. 3,156,-064, 11–10–64, Cl. 43—17.2.

Czoch, Jerzy W.: *See*—
Steventon, Charles F., and Czoch. 3,153,109.

Czubiak, Joseph L., to The Bunker-Ramo Corp. Narrow band audio frequency filtering system. 3,159,791, 12–1–64, Cl. 325—489.

Czubiak, Joseph L., W. A. Finchum, and T. S. Inston, Jr., to

Czuha, Michael, Jr., and C. E. Berry, to Consolidated Electrodynamics Corp. Method and apparatus for moisture detection. 3,136,708, 6–9–64, Cl. 204—1.

Czulak, Joseph, and N. H. Freeman, to Commonwealth Scientific and Industrial Research Organization. Press. 3,133,-492, 5–19–64, Cl. 100—110.

D.B.A.: *See*—
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D.B.A. Societé Anonyme: *See*—
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DCA Food Industries, Inc.: *See*—
Fries, Edward W. 3,152,560.
Fries, Edward W. 3,161,157.
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D.K. Mfg. Co.: *See*—
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DPR Inc.: *See*—
Hardman, Kenneth V., and Lang. 3,160,595.

D-Y Trust: *See*—
Devine, James H. and E. Y. 3,139,675.

Daase, Erhard: *See*—
Devine, James H. and E. Y. 3,160,053.
Fritsch, Werner, and Daase. 3,134,790.
Fritsch, Werner, and Daase. 3,138,621.

Daase, Erhard, and W. Fritsch, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Brüning. 16-acetyl-3,20-diketosteroids and process for their manufacture. 3,121,101, 2–11–64, Cl. 260—397.3.

Dabanian, Karnig H., and W. H. Kirk. Adjustable air gauging mandrel. 3,154,939, 11–3–64, Cl. 73—37.9.

Dabelle, Godfrey R., to E. D. Etnyre & Co. Pavement sealer spreader apparatus. 3,153,992, 10–27–64, Cl. 94—44.

Dable, George F. Segmented gear. 3,159,047, 12–1–64, Cl. 74—450.

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Dabroski, Frank C. Illuminated rotatable resilient bumper. 3,140,111, 7–7–64, Cl. 293—17.

Dabroski, Winifred C., and B. F. Herr, to Johnson & Johnson. Apparatus for treating paper webs. 3,131,118, 4–28–64, Cl. 162—361.

Dacey, George C., and R. L. Wallace, Jr., to Bell Telephone Laboratories, Inc. Fabrication of low impedance diode structures. 3,145,454, 8–25–64, Cl. 29—155.5.

Daco Rubber, Inc.: *See*—
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Dacor Corp.: *See*—
Davison, Samuel M., Jr. 3,128,481.

Da Costa, Harry, to Motorola, Inc. Mounting and connection system for semiconductor devices. 3,153,751, 10–20–64. Cl. 317—234.

Da Costa, Harry, and D. W. Williams, to Motorola, Inc. Method of supplying wire for mounting in electronic units. 3,159,188, 12–1–64, Cl. 140—92.2.

Dadd, Morris V., to John Products, Inc. Rocker arm oil control means. 3,128,749, 4–14–64, Cl. 123—90.

Dadd, Morris V., to Johnson Products, Inc. Hydraulic tappet. 3,146,767, 9–1–64, Cl. 123—90.

Daddario, Francis E. Pumping units each including a priming and a delivery pump. 3,121,397, 2–18–64, Cl. 103—113.

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Griffitts, James J., and Hobbs. 3,143,793.
Murphy, William P., Jr. 3,152,202.

Dadmun, Donald C.: *See*—
Magardo, Robert F., and Dadmun. 3,160,063.

Dadswell, Cyril J., and G. D. Whitehouse, to English Steel Corp. Ltd. Automatic couplers for rail vehicles. 3,123,-228, 3–3–64, Cl. 213—100.

Daems, Karolus L.: *See*—
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Daendliker, Gustav, and W. Scheller, to Ciba Ltd. Process for the preparation of aromatic compounds from acetylenically unsaturated hydrocarbons. 3,125,610, 3–17–64, Cl. 260—673.

Daeniker, Hans U., to Ciba Corp. New sulfonamides. 3,136,-787, 6–9–64, Cl. 260—348.

Daenzer, Howard J., to General Motors Corp. Counterbalanced hinge. 3,153,257, 10–20–64, Cl. 16—128.1.

Daffer, George H., to Renaer, Inc. Aircraft landing gear. 3,128,971, 4–14–64, Cl. 244—104.

Daffer, George H., to Renaer, Inc. Flotation hull. 3,139,-635, 7–7–64, Cl. 9—6.

Daffin Corp.: *See*—
Pridgeon, Clifford W. 3,163,302.
Pridgeon, Clifford W., Gustafson, Lund, and Huttner. 3,157,295.
Zink, Phillip L. 3,145,522.

Dafoe, Leslie R., to Pacific Car and Foundry Co. Automotive vehicle with tilting half-cab. 3,126,975, 3–31–64, Cl. 180—89.

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Thomas, Terry, and Dafrico. 3,138,083.

Daggett, Albert K.: *See*—
McCrory, Rollin J., McNinch, Daggett, and Day. 3,146,-940.

Daggett, Norman E.: *See*—
Kelar, Joseph, Dennison, and Daggett. 3,121,215.

Dagne, Louis C., to United States of America, Navy. Pyrophoric ignition injection system. 3,135,092, 6–2–64, Cl. 60—39.48.

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D'Agostino, Nunzio L.: *See*—
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Dahl, Carl P., to Borg-Warner Corp. Pressure loaded pumps. 3,137,239, 6–16–64, Cl. 103—126.

Dahl, Einar S., and J. M. Whalen, to Borg-Warner Corp. Fuel injection control mechanism. 3,128,751, 4–14–64, Cl. 123—140.

Dahl, Erik, S. Okstad, and H. Skretting, to Elektrokemisk A/S. Process of producing metals from metal oxides. 3,156,557, 11–10–64, Cl. 75—4.

Dahl, Henry A.: *See*—
Relph, Earl B., and Dahl. 3,157,117.

Dahl, Henry L. Steerable toboggan. 3,147,020, 9–1–64, Cl. 280—18.

Dahl, James J.: *See*—
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Dahlberg, Harold S., and F. B. Quinn, to Bigelow-Sanford, Inc. Carpet or floor tiles. 3,120,083, 2–4–64, Cl. 50—413.

Dahlberg, Reinhard, to Clevite Corp. Protective polyindene and terpenephenol coatings for semiconductors and method. 3,128,203, 4–7–64, Cl. 117—201.

Dahlberg, Reinhard, to Clevite Corp. Method of fabricating laminar semiconductor devices. 3,151,007, 9–29–64, Cl. 148—177.

Dahlberg, Robert S., to Philco Corp. Two stage transistor amplifier with broad-band gain-equalizing feedback. 3,124,-759, 3–10–64, Cl. 330—19.

Dahle, Charles J. Hydrojet power unit for boats with power reverse propulsion. 3,116,602, 1–7–64, Cl. 60—35.54.

Dahlgren, John A., to General Electric Co. Semi-automatic ice maker. 3,163,025, 12–29–64, Cl. 62—363.

Dahlgren, John V. S., to The Wilcolator Co. Expansible power element. 3,117,497, 1–14–64, Cl. 92—91.

Dahlgren, Lennart G. O., to F. V. Hasselblad. Film feeding mechanisms for roll film cameras. 3,128,687, 4–14–64, Cl. 95—34.

Dahlin, Curt V.: *See*—
Heiskanen, Sakari, and Dahlin. 3,138,216.
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Dahlin, Erik B., to Honeywell Inc. Low noise electronic differentiator. 3,159,741, 12–1–64, Cl. 235—183.

Dahlin, Harold C., to K. R. Franzer. Snap action switch. 3,120,590, 2–4–64, Cl. 200—67.

Dahlman, Frederick A., to Corning Glass Works. Glass press mold turret. 3,138,241, 6–23–64, Cl. 198—209.

Dahlman Mfg. & Sales, Inc.: *See*—
Bucher, Foster L. 3,137,391.

Dahlstrand, Josef Y., and Josef Y. Dahlstrand, Jr. Torque disconnect safety coupling. 3,132,730, 5–12–64, Cl. 192—56.

Dahlstrand, Josef Y., Jr.: *See*—
Dahlstrand, Josef Y., and Josef Y. Dahlstrand, Jr. 3,132,730.

Dahlstrom, Harry E., to Amerock Corp. Device for counterbalancing window sashes. 3,146,488, 9–1–64, Cl. 16—198.

Dahlstrom, Robert V., to Eli Lilly and Co. Pertussis antigen. 3,141,824, 7–21–64, Cl. 167—78.

Dahm, Werner K.: *See*—
Geissler, Ernst D., and Dahm. 3,139,033.

Dahme, Jerome R., to Sperry Rand Corp. Dynamic data storage device employing triggered silicon controlled rectifier for storing. 3,132,264, 5–5–64, Cl. 307—88.5.

Dahmlos, Johannes, to Wasag-Chemie AG. Process for the preparation of chlorofluoro derivatives of methane. 3,146,-275, 8–25–64, Cl. 260—653.8.

Dahms, Francis A., to Emhart Mfg. Co. Bacon slicer having automatic feed adjustment. 3,144,893, 8–18–64, Cl. 146—95.

Dahms, James B., and B. P. Edmonds., to Pittsburgh Plate Glass Co. In situ potassium chloride recovery by selective solution. 3,135,501, 6–2–64, Cl. 262—3.

Dahms, James B., and B. P. Edmonds, to Pittsburgh Plate Glass Co. Solution mining of potassium chloride. 3,148,-000, 9–8–64, Cl. 299—5.

Dahn, Raymond C., Jr., M. J. Langan, and V. E. Meyer, to General Electric Co. Apparatus and method for introducing additives to an extruder. 3,155,750, 11–3–64, Cl. 264—40.

Dahpe A.G.: *See*—
Haberle, Willi. 3,126,583.

Daigh, Harold D., to Richfield Oil Corp. Control device for a crankcase ventilating system. 3,123,060, 3–3–64, Cl. 123—119.

Daigh, Harold D., and R. H. Patzig, to Richfield Oil Corp. Crankcase ventilator device. 3,157,467, 11–17–64, Cl. 123—119.

Daigle, Edwin E., and J. C. Richardson, to Shell Oil Co. Core sample taking. 3,163,241, 12–29–64, Cl. 175—237.

Daigler, Franklin A., to Esterline-Angus Instrument Co., Inc. Stylus. 3,163,491, 12–29–64, Cl. 346—140.

Daigler, Franklin A., and S. A. Bartfay, to Esterline-Angus Instrument Co., Inc. Recording mechanism. 3,154,368, 10–27–64, Cl. 346—68.

Dailey, John J. Fluid distribution elements. 3,156,099, 11–10–64, Cl. 61—14.

Dailey, Lawrence A., to United States Steel Corp. Apparatus for turning billets or the like. 3,118,547, 1–21–64, Cl. 214—1.

Dailey, Vacell D., to Baldwin-Montrose Chemical Co. Inc. (Baldwin Division). Piston structure. 3,136,228, 6–9–64, Cl. 92—85.

Dailey, William H., Jr., to Midland-Ross Corp. Altering the heat content of solid materials. 3,159,209, 12–1–64, Cl. 165—1.

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D'Alelio, Gaetano F., to Dal Mon Research Co. Polymerizable triazines and products thereof. 3,154,523, 10–27–64, Cl. 260—78.
D'Alelio, Gaetano F., to Dal Mon Research Co. Triazinyl derivatives as gasoline additives. 3,158,450, 11–24–64, Cl. 44—63.
D'Alelio, Gaetano F., to Dal Mon Research Co. Irradiated polymeric propellants and process of rocket propulsion. 3,158,991, 12–1–64, Cl. 60—35.4.
D'Alelio, Gaetano F., to Dal Mon Research Co. Polymerization process. 3,159,607, 12–1–64, Cl. 260—82.1.
D'Alelio, Gaetano F., and A. A. Hunyar, to Von Kohorn Constructora S.A. Process of polymerization of acrylonitrile in the presence of itaconic anhydride polymer. 3,131,-163, 4–28–64, Cl. 260—45.5.
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Dalton, Harold R. Pressure and heat sensitive coating compositions and recording blanks coated therewith. 3,125,-458, 3–17–64, Cl. 117—36.7.
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Dameral, Ray C., to Herst Lighting Corp., d.b.a. Peerless Electric Co. Fluorescent lighting unit. 3,158,327, 11–24–64. Cl. 240—9.
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D'Amico, John J., to Monsanto Co. N,1-(8-aminomenthyl) thiazolesulfenamides. 3,154,558, 10–27–64, Cl. 260—302.
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D'Amico, John J., to Monsanto Co. Method of reducing population of weeds and combating insects. 3,161,496, 12–15–64, Cl. 71—2.6.
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D'Amico, John J., and C. C. Tung, to Monsanto Co. 1,2,3,4-tetrahydro - 1(2 - mercapto - 6 - benzothiazolyl) - 2 - thioxo-4,4,6-trimethylpyrimidine. 3,151,114, 9–29–64, Cl. 260—256.5.
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Damm, Charles C., to United States of America, Atomic Energy Commission. Injection method and apparatus for controlled fusion devices. 3,152,959, 10–13–64, Cl. 176—1.
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Damm, Klaus, W. Gesierich, and G. Heyl, to Agfa Aktiengesellschaft. Electrophotographic materials. 3,155,504, 11–3–64, Cl. 96—1.
Dammert, Earl D., J. V. Fidd, and H. Pedersen, to The Gleason Works. Face mill cutter and machine for cutting gears. 3,138,996, 6–30–64, Cl. 90—5.
Damon, Frédéric. Ejecting mechanism for shotguns. 3,156,-994, 11–17–64, Cl. 42—47.
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Damon, Melvin H., Jr., to United States of America, Navy. Target coordinate positioner. 3,130,253, 4–21–64, Cl. 35—10.4.
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D'Amore, Mead, to Westinghouse Electric Corp. Fuel element for a nuclear reactor. 3,125,493, 3–17–64, Cl. 176—76.
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Dane, Ernest B., Jr., to Massachusetts Institute of Technology. Free gyroscope. 3,142,183, 7–28–64, Cl. 74—5.7.
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Danetz, Abraham I., A. W. Orlaachio, and H. W. Erichsen, to Gulton Industries, Inc. Self-calibrating accelerometer. 3,120,622, 2–4–64, Cl. 310—8.4.

Danford, Tiras J., and J. J. Harrington. Tobacco rack. 3,143,370, 8–4–64, Cl. 294—5.5.

Danforth, Donald W., to John W. Bolton & Sons, Inc. Apparatus for refining paper stock. 3,144,994, 8–18–64, Cl. 241—260.

Danforth, Donald W., to John W. Bolton & Sons, Inc. Method of processing paper stock. 3,148,839, 9–15–64, Cl. 241—21.

Danfoss A/S: *See*—
Enemark, Arne F. 3,141,608.

Danfoss ved ingenior Mads Clausen: *See*—
Baatrup, Johannes V. 3,129,884.
Baatrup, Johannes V. 3,150,712.
Bille-Knudsen, Klaus. 3,117,198.
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Dangauthier, Marcel, to Societe d'Etudes et d'Applications Industrielles Commerciales et Immobilieres "Inter-Technique." Motor-change gear unit. 3,150,543, 9–29–64, Cl. 74—700.

Dangauthier, Marcel, to Societe d'Etudes et d'Applications Industrielles Commerciales et Immobilieres "Inter-Technique." Balanced pneumatic suspensions including an automatic level control. 3,156,481, 11–10–64, Cl. 280—6.

D'Angelo, Alfonso. Rail anchor placement machine. 3,135,-222, 6–2–64, Cl. 104—2.

D'Angelo, Vito, N. L. Gordon, and J. Blaufarb, to Vaporec, Inc. Dry cleaning apparatus with solvent recovery. 3,134,-652, 5–26–64, Cl. 34—77.

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Richley, Edward A., Dangle, and Wear. 3,119,232.

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Danhi, Morris M. Multi-compartment vehicle tire. 3,161,219, 12–15–64, Cl. 152—339.

Daniel, David W.: *See*—
Mentley, Max B., Daniel, and Kokorzycki. 3,135,136.

Daniel, Donald B., to Electronic Safety Engineering Co. Volume limiter-expander. 3,138,766, 6–23–64, Cl. 330—123.

Daniel, Hermann F., and W. F. W. Niem, to Union Special Maschinenfabrik, G.m.b.H. Thread chain severing device for sewing machines. 3,143,987, 8–11–64, Cl. 112—252.

Daniel Orifice Fitting Co.: *See*—
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Daniel, Robert A.: *See*—
Vonderschmitt, Bernard V., and Daniel. 3,143,686.

Daniel, William C. Lift dolly. 3,155,255, 11–3–64, Cl. 214—370.

Daniel, William H. Animal shelter. 3,147,736, 9–8–64, Cl. 119—19.

Danields, Edward N. Alarm systems. 3,147,468, 9–1–64, Cl. 340—274.

Daniele, Sante, to Wayne Italiana S.p.A. Variable price computing device for a multiproduct dispenser. 3,122,312, 2–25–64, Cl. 235—61.

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Daniels, Charles A., W. M. Schul, and W. B. Buck, to Phillips Petroleum Co. Conduit with corrosion resistant liner 3,125,124, 3–17–64, Cl. 138—141.

Daniels, Charles J., T. A. Smith, and F. A. Harbin, to All American Engineering Co. Hand measuring means for fitting mechanical hands to patients. 3,159,923, 12–8–64, Cl. 33—174

Daniels, Charles S., and R. G. Nicholson, to Consolidated Electronics Industries Corp. Coil winding apparatus. 3,146,963, 9–1–64, Cl. 242—9.

Daniels, Dennis, to Houdaille Industries, Inc. Knock out structure. 3,152,715, 10–13–64, Cl. 220—27.

Daniels, Dennis, to Houdaille Industries, Inc. Positioning mechanism for duplicator. 3,152,799, 10–13–64, Cl. 269—74.

Daniels, Edward G., to The Upjohn Co. Recovery of agaritine. 3,157,699, 11–17–64, Cl. 260—519.

Daniels, Farrington, and T. Finkelstein, to Wisconsin Alumni Research Foundation. Thermodynamic reciprocating apparatus. 3,117,414, 1–14–64, Cl. 60—24.

Daniels, Gilbert S., to The Scam Instrument Corp. Variable monitoring and recording system. 3,142,820, 7–28–64, Cl. 340—172.5.

Daniels, Neale J. Dump bed for pickup trucks. 3,147,999, 9–8–64, Cl. 298—15.

Daniels, Wilbert P.: *See*—
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Daniels, William B., to Union Carbide Corp. Apparatus for subjecting matter to ultra-high pressure. 3,137,896, 6–23–64, Cl. 18—16.5.

Danielsen, Daniel, and S. B. Judlowe, to Bell Telephone Laboratories, Inc. Pulse sequence verifier circuit with digital logic gates for detecting errors in magnetic recording circuits. 3,148,334, 9–8–64, Cl. 328—92.

Danielson, Andrew L. Collapsible step bench. 3,142,355, 7–28–64, Cl. 182—106.

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Drees, Joseph M., Mercurio, and Danielson. 3,116,934.

Danielson, Gilbert L., F. C. Futral, and W. D. Shipp. Pipe patch. 3,150,690, 9–29–64, Cl. 138—99.

Danielson, Glen. Combination table and bench. 3,138,403, 6–23–64, Cl. 297—174.

Danielson, Henry C.: *See*—
Culver, Irven H., and Danielson. 3,120,276.

Danielson, Irvin S.: *See*—
Taylor, Arthur S., and Danielson. 3,123,212.

Danilewicz, Leonard S.: *See*—
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Danilewicz, Ludomir and L. S., to Hydroforce Ltd. Rotary. Rotary converter. 3,143,290, 8–4–64, Cl. 235—61.

Dankert, Henry C. Match pack and cover for a cigarette package. 3,160,272, 12–8–64, Cl. 206—48.

Dankert, Lester J., and D. A. Permoda, to The Dow Chemical Co. Preparation of 2-substituted cyclohexanones. 3,124,-614, 3–10–64, Cl. 260—586.

Danko, Daniel A. Nozzle device. 3,157,348, 11–17–64, Cl. 239—316.

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Danko, Nicholas S., J. A. Shaw, and J. T. McCall, to International Pipe and Ceramics Corp. Means for harnessing pipe joints. 3,129,961, 4–21–64, Cl. 285—230.

Danko, John A., and T. B. Hurst, to The Babcock & Wilcox Co. Steam generator. 3,153,402, 10–20–64, Cl. 122—7.

Danley, Philip R. F., and J. A. Pharris, to Sears, Roebuck and Co. Paint brush. 3,133,299, 5–19–64, Cl. 15—193.

Danly, James C., and V. Georgeff, to Danly Machine Specialties, Inc. Carrier clamp for quick die change press. 3,134,-350, 5–26–64, Cl. 113—49.

Danly, James C., and V. Georgeff, to Danly Machine Specialties, Inc. Self-contained die cushion. 3,135,169, 6–2–64, Cl. 91—216.

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Dannenberg, Kurt, and B. C. Hicks, to E.M.P. Electric Ltd. High voltage arc extinguishing electric fuses. 3,138,682, 6–23–64, Cl. 200—120.

Dannenberg, Robert E., to Kendan Associates. Porous material. 3,128,973, 4–14–64, Cl. 244—130.

Dannenmann, Paul, and K. Patzelt, to G. Bauknecht G.m.b.H. Dish-washer nozzle assembly. 3,116,881, 1–7–64, Cl. 239—552.

Dannenmann, Paul, and K. Patzelt, to G. Baukneckt G.m.b.H. Pivotal spray arm and dish basket support for a dish washer. 3,118,458, 1–21–64, Cl. 134—144.

Dannenmann, Paul, and K. Patzelt, to G. Bauknecht, G.m.b.H. Dish-washer basket drive. 3,133,547, 5–19–64, Cl. 134—112.

Danner, Barry L. Telephone timer. 3,146,577, 9–1–64, Cl. 58—22.9.

Danner, David L. Aircraft wing structure having variable angle of incidence. 3,147,938, 9–8–64, Cl. 244—48.

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Goodson, Louie A., Jr. 3,142,072.
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Wayland, Rosser L., Jr. 3,158,501.

Dansfield, Frank R. Lathe tool holder. 3,156,967, 11–17–64, Cl. 29—96.

D'Antonio, Nicholas F., to General Electric Co. Method and apparatus for enhancing the development of deformable storage mediums. 3,131,019, 4–28–64, Cl. 346—77.

Dantowitz, Philip, to General Electric Co. Velocity and rate of change of pressure limiting system. 3,119,308, 1–28–64, Cl. 91—38.

Danuski, Frank T., Jr. Corner sander. 3,160,995, 12–15–64, Cl. 51—170.

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Danyluke, Ostap, to Bath Iron Works Corp. Centrifugal pulverizer. 3,162,382, 12–22–64, Cl. 241—53.

Danyluke, Ostap, to Bath Iron Works Corp. Impeller for centrifugal pulverizer. 3,162,386, 12–22–64, Cl. 241—275.

Danziger, Jerry: *See*—
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Dao, Tich T., to The National Cash Register Co. Flip-flop circuit with a delay between a logical input circuit and the flip-flop. 3,134,030, 5–19–64, Cl. 307—88.5.

D'Apolito, Matteo, to Foster Grant Co., Inc. Molded article separator. 3,151,813, 10–6–64, Cl. 241—68.

D'Apolito, Matteo, C. L. Le Blanc, and J. J. Hitov, to Foster Grant Co., Inc. Means and method for selectively breaking fragile members. 3,150,806, 9–29–64, Cl. 225—2.

Dapses, William P., to Lodding Engineering Corp. Back for doctor blades. 3,131,415, 5–5–64, Cl. 15—256.51.

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Darby, Joseph R.: *See*—
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Darby, Joseph R., to Monsanto Co. Vinyl chloride polymers plasticized with benzyl phthalate compounds. 3,152,096, 10–6–64, Cl. 260—30.4.
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Darcy, Joseph T. Paint dispenser. 3,139,220, 6–30–64, Cl. 222—192.
Dare, Earl J., to Columbian Bronze Corp. Anchor. 3,136,278, 6–9–64, Cl. 114—208.
Da Re, Paolo, to Recordati Laboratorio Farmacologico S.p.A. Amino chromones with central nervous system stimulating activity. 3,147,258, 9–1–64, Cl. 260—247.7.
Dargan, Ervin E., and W. A. Barber, to The Terrell Machine Co. Machine for forming a cylindrical billet with a plane surface substantially parallel to the billet axis. 3,129,733, 4–21–64, Cl. 143—117.
Darland, William G., Jr., to United States of America, Navy. Galvanic battery electrode. 3,150,008, 9–22–64, Cl. 136—27.
Darland, William G., Jr., to United States of America, Navy. Eccentric separator for galvanic battery. 3,156,588, 11–10–64, Cl. 136—143.
Darland, William G., Jr., and R. A. Powers, to Union Carbide Corp. Electrodes for logarithmic detector units. 3,126,504, 3–24–64, Cl. 317—231.
Darley, David H. Process and apparatus for extracting and recovering oil in situ. 3,157,231, 11–17–64, Cl. 166—9.
Darley, Jesse W., deceased, by M. J. Darley, administratrix. Flower knife. 3,160,953, 12–15–64, Cl. 30—279.
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Darling, Chester A., to Barth Engineering and Mfg. Co. Apparatus for sensing and controlling fluid flow in the form of discrete free-falling drops. 3,163,176, 12–29–64, Cl. 137—487.5.
Darling, James P., to The General Tire & Rubber Co. Ship fender. 3,125,979, 3–24–64, Cl. 114—219.
Darling, James P., and C. O. Slemmons, to The General Tire & Rubber Co. Multicompartment receptacle for the ingredients of a concrete mix. 3,131,741, 5–5–64, Cl. 150—1.
Darling, Marvin C., to The Cessna Aircraft Co. Stabilized piston valve. 3,123,335, 3–3–64, Cl. 251—282.
Darling, Norman E. Milking system. 3,116,713, 1–7–64, Cl. 119—14.04.
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Darmon, Michel, and M. Le Bihan. Apparatus for the electric welding of hollow bodies, such, more particularly, as ventilation casing. 3,128,367, 4–7–64, Cl. 219—78.
Darnell, Rex C., to Michigan-Dynamics, Inc. Differential pressure indicator. 3,156,119, 11–10–64, Cl. 73—407.
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Dart, Charles R., to General Electric Co. Slowdown control for reversing hot mill. 3-136,183, 6–9–64, Cl. 80—33.
Dart, David M., to The Marley Co. Evaporative cooling apparatus for a refrigerant. 3,141,308, 7–21–64, Cl. 62—305.
Darvell, John L., to Vandervell Products Ltd. Joining bimetal or multilayer metallic strip material. 3,136,881, 6–9–64, Cl. 219—104.
Darwin, Daniel P., and D. K. Rex, to International Business Machines Corp. Bi-directional reel clutch drive. 3,163,373, 12–29–64, Cl. 242—55.12.
D'Asaro, Lucian A., and R. G. Frieser, to Bell Telephone Laboratories, Inc. Method of manufacturing semi-conductive devices. 3,139,362, 6–30–64, Cl. 148—187.
Dasburg, Alfred V., and E. J. Sexton, Jr., to General Signal Corp. Detection system for railway cars. 3,145,958, 8–25–64, Cl. 246—160.
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D'Ascoli, Ralph G., and J. B. O'Mara, to Anaconda Wire and Cable Co. Pothead and cable entrance seal. 3,151,209, 9–29–64, Cl. 174—19.
Dash, William C., to General Electric Co. Method of growing dislocation-free semiconductor crystals. 3,135,585, 6–2–64, Cl. 23—301.
Dasher, Campbell K., 50% to P. J. Malonson. Vending machine apparatus. 3,140,798, 7–14–64, Cl. 221—89.
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Da Silva, Fernando D. Ellipsograph. 3,137,945, 6–23–64, Cl. 33—30.
Daspit, John I., to Gilfillan Corp. Video data encoding circuit. 3,136,994, 6–9–64, Cl. 343—17.1.
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Date, Kazuo H., to McGraw-Edison Co. Electric contact assemblage of contact fingers in which helically wound conductive members provide contact pressure. 3,127,492, 3–31–64, Cl. 200—166.
Date, Kazuo H., to McGraw-Edison Co. High speed grounding switch. 3,156,800, 11–10–64, Cl. 200—106.
Date, Kazuo H., and A. G. Steinmayer, to McGraw-Edison Co. Load break device having interrupting quick break blades of substantially same length. 3,145,283, 8–18–64, Cl. 200—146.
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Daub, Rudolph. Piston with reinforced piston ring grooves. 3,118,712, 1–21–64, Cl. 277—189.5.
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Daugherty, Ralph K., and T. J. Smith, to Kutz-Kwik. Tray pack cutter. 3,135,048, 6–2–64, Cl. 30—2.

Daugherty, Ralph K., T. J. Smith, and S. J. Kozuch, to Kutz-Kwik. Cutter guard and piercing means for tray pack cutter. 3,135,049, 6–2–64, Cl. 30—2.
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Malaker, Stephen F., and Daunt. 3,147,600.
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Davey, Edward L., to British Insulated Callender's (Submarine Cables) Ltd. Insulating structure for high voltage power cables. 3,144,499, 8–11–64, Cl. 174—25.
Davey, Hazel W. Receptacle. 3,122,306, 2–25–64, Cl. 229—53.
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Davey, James R., D. Mitchell, B. Ostendorf, Jr., and W. T. Rea, to Bell Telephone Laboratories, Inc. Discrete address time division multiplex data transmission system. 3,141,-928, 7–21–64, Cl. 178—50.
Davey, John P., H. E. Dionne, and F. J. Phillips. Lint collecting device for textile machine. 3,145,409, 8–25–64, Cl. 15—306.
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David, Charles E., and R. L. Haynes, to United States of America, Navy. High frequency phase splitter utilizing bifilar windings. 3,154,750, 10–27–64, Cl. 330—14.
David, Charles W., to Optical Gaging Products, Inc. Semi-automatic etching machine. 3,163,572, 12–29–64, Cl. 156—345.
David, Edward E., Jr., to Bell Telephone Laboratories, Inc. Artificial reconstruction of speech. 3,127,476, 3–31–64, Cl. 179—15.55.
David, Edward E., Jr., M. V. Mathews, and J. E. Miller, to Bell Telephone Laboratories, Inc. Automatic formant locator. 3,127,477, 3–31–64, Cl. 179—15.55
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David, George J., to Automatic Electric Laboratories, Inc. Printed circuitry for magnetic core matrix. 3,133,270, 5–12–64, Cl. 340—174.
David, Gordon W., and T. A. Green, to Bailey Meter Co. Flow nozzle. 3,132,670, 5–12–64, Cl. 138—40.
David, Israel A., to E. I. du Pont de Nemours and Co. Reaction of acetylene with amines. 3,151,159, 9–29–64, Cl. 260—563.
David, Roderic A., to International Business Machines Corp. Self-checking numbering devices. 3,138,701, 6–23–64, Cl. 235—153.
David, Vernon J. Nail extractor. 3,150,858, 9–29–64, Cl. 254—26.
Davidovic, Vlastimir: *See*—
Davidovitch, Vlastimir. 3,122,886.
Davidovitch, Vlastimir, now by change of name V. Davidovic. Gas turbine cycle improvement. 3,122,886, 3–3–64, Cl. 60—39.16.
Davidowich, George, and M. W. Leeds, to Air Reduction Co., Inc. Stabilization of chlorinated hydrocarbons with 1,4-dioxane and acetylenic alcohol ester. 3,124,620, 3–10–64, Cl. 260—652.5.
Davids, Clifford B., to The Masquardt Corp. Telemechanical stress device. 3,132,525, 5–12–64, Cl. 74—17.8.
Davidse, Jan, and B. H. J. Cornelissen, to North American Philips Co. Circuit arrangement for controlling a colour television display tube. 3,119,898, 1–28–64, Cl. 178—5.4.
Davidson, Alfred. Method of forming prestressed tubular structures. 3,162,709, 12–22–64, Cl. 264—228.
Davidson, Allen R., to Industrial Nucleonics Corp. Method and apparatus for determining moisture content and other variables utilizing a capacitor test cell at two different frequencies. 3,155,899, 11–3–64, Cl. 324—61.
Davidson, Arthur R.: *See*—
Lamb, Frank G., and Davidson. 3,116,772.
Davidson, Arthur R., and R. K. McCormack, to Lamb-Weston, Inc. Air cooling system for below freezing temperatures. 3,138,939, 6–30–64, Cl. 62—155.
Davidson, Charles. Folding and nesting delivery tray for bakery goods or the like. 3,124,254, 3–10–64, Cl. 211—132.
Davidson, Charles R., Jr.: *See*—
Golightly, James S., Doehlert, and Davidson. 3,161,493.
Davidson, Charlie H., and F. Owens, to United States of America, Army. Quick disconnect high pressure coupling. 3,162,470, 12–22–64, Cl. 285—86.
Davidson, Donald E., to Davidson Optronics, Inc. Autocollimator and automatic control means therefor. 3,161,715, 12–15–64, Cl. 88—14.
Davidson, Donald J., to Pegson Ltd. Jaw crushers. 3,128,-954, 4–14–64, Cl. 241—269.
Davidson, Donald W., and K. U. Ingold, to National Research Council. Detection of spoilage. 3,118,774, 1–21–64, Cl. 99—192.
Davidson, Emil, to Guild Molders, Inc. Closure for containers. 3,160,269, 12–8–64, Cl. 206—15.2.
Davidson, Emil, to Guild Molders, Inc. Multiple-part plastic pump for liquids. 3,162,333, 12–22–64, Cl. 222—207.
Davidson, Gareth M.: *See*—
Bock, Robert O., and Davidson. 3,136,987.
Davidson, Gordon L.: *See*—
Herzfeld, Richard P., and Davidson. 3,131,351.
Davidson and Hemmemdinger: *See*—
Davidson, Hugh R. 3,159,742.
Davidson, Hubert: *See*—
Correll, Ward L., and Davidson. 3,131,457.
Davidson, Hugh R., to Davidson and Hemmemdinger. Tristimulus difference computer. 3,159,742, 12–1–64, Cl. 235—184.
Davidson, Ivor M., to Power Jets (Research and Development) Ltd. Convertible type aircraft. 3,163,376, 12–29–64, Cl. 244—7.
Davidson, Ivor M., and L. Islip, to Power Jets (Research and Development) Ltd. Helicopter control mechanism. 3,139,-936, 7–7–64, Cl. 170—135.4.
Davidson, James D. Standard adjustable die gauge. 3,137,-258, 6–16–64, Cl. 113—49.
Davidson, James R.: *See*—
Straight, Edward R., and Davidson. 3,124,851.
Davidson, John D., and F. J. Murphy, Jr., to Westinghouse Electric Corp. Shaft position indicator. 3,155,955, 11–3–64, Cl. 340—268.
Davidson, John H. C., to Selkirk Metal Products. Prefabricated chimney. 3,160,087, 12–8–64, Cl. 98—46.
Davidson, Joseph W.: *See*—
Irvin, Howard B., and Davidson. 3,123,004.
Davidson, Leo R. Fastening means for faucet handle. 3,140,-635, 7–14–64, Cl. 85—1.
Davidson, Leon J. Portable enclosure. 3,162,460, 12–22–64, Cl. 280—36.
Davidson, Lucien V. Floating tong. 3,156,496, 11–10–64, Cl. 294—88.
Davidson, Norman R., to United States of America, Atomic Energy Commission. Process for preparation of sulfur-containing compounds of plutonium. 3,162,509, 12–22–64, Cl. 23—14.5.
Davidson Optronics, Inc.: *See*—
Davidson, Donald E. 3,161,715.
Davidson, Per, to Sandvikens Jernverks Aktiebolag. Method of making hot tops for ingot molds. 3,123,878, 3–10–64, Cl. 22—193.
Davidson, Ralph L.: *See*—
Bell, Charles C., and Davidson. 3,119,167.
Davidson, Ralph L., to Curtis & Marble Machine Co. Adjustable web tensioning apparatus. 3,132,786, 5–12–64, Cl. 226—111.
Davidson Rubber Co.: *See*—
Hood, Bruce G. 3,123,403.
Hood, Bruce G. 3,124,627.
Davidson Rubber Co., Inc.: *See*—
Hood, Bruce G. 3,118,153.
Hood, Bruce G. 3,129,270.
Hood, Bruce G. 3,161,436.
Davidson, Sidney. Lower torso garment embodying sacroiliac supporting waist band. 3,141,457, 7–21–64, Cl. 128—95.
Davidson, Thomas G.: *See*—
Davidson, Wilbur L. and T. G., and Shiker. 3,125,103.
Davidson, Wilbur L. and T. G., and R. W. Shiker; said T. G. Davidson, and said Shiker, assors. to said W. L. Davidson. Vending machine change dispenser. 3,125,103, 3–17–64, Cl. 133—5.
Davidson, William E., to General Electric Co. Flooded boiler steam or spray iron. 3,156,054, 11–10–64, Cl. 38—77.
Davidson, Woodrow W., to Sperry Rand Corp. Document transport and stacking device. 3,147,970, 9–8–64, Cl. 271—57.
Davie, Julian A. W., to International Computers and Tabulators Ltd. Information storage apparatus. 3,117,307, 1–7–64, Cl. 340—173.
Davie, William R., and J. C. E. Schult, to Pittsburgh Chemical Co. Hydroperoxide formation. 3,160,668, 12–8–64, Cl. 260—610.
Davies, Albert, to Imperial Chemical Industries Ltd. Process for the electrolytic production of fluorine and apparatus therefor. 3,146,179, 8–25–64, Cl. 204—60.

Davies, Beaumont J., and C. Wallis, to George Richards & Co. Ltd. Position signal generating apparatus. 3,122,686, 2–25–64, Cl. 318—18.
Davies, Ben: *See*—
King, Donald F., and Davies. 3,141,784.
McGreight, Donald O., Davies, and Renkey. 3,144,345.
Davies, Ben, to Harbison-Walker Refractories Co. Refractory shapes and method of making same. 3,141,785, 7–21–64, Cl. 106—59.
Davies, Ben, and R. E. Birch, to Harbison-Walker Refractories Co. Refractory. 3,138,470, 6–23–64, Cl. 106—62.
Davies, Ben, E. P. Weaver, and P. H. Havranek, to Harbison-Walker Refractories Co. Burned basic refractory shapes. 3,141,790, 7–21–64, Cl. 117—123.
Davies, Boyd A. Clip for securing flexible material to a cylindrical member. 3,142,880, 8–4–64, Cl. 24—265.
Davies, David O., J. M. S. Keen, and G. K. Hensman, to Rolls-Royce Ltd. Bearings. 3,135,562, 6–2–64, Cl. 308—36.1.
Davies, David O., N. R. Robinson, and J. M. S. Keen, to Rolls-Royce Ltd. Gas turbine engine. 3,147,913, 9–8–64, Cl. 230—207.
Davies, Donald D., to RAP Industries, Inc. Package. 3,128,030, 4–7–64, Cl. 229—2.5.
Davies, Donald W., and R. F. Hazard, to International Computers and Tabulators Ltd. Apparatus for recording characters. 3,120,801, 2–11–64, Cl. 101—93.
Davies, Edward R., G. L. Bowen, and R. W. Lemon, to Jered Industries, Inc. Multiple speed transmission. 3,144,107, 8–11–64, Cl. 192—13.
Davies, Eric, to The Marconi Co. Ltd. Line-field distortion cross-current compensating circuit. 3,149,260, 9–15–64, Cl. 315—27.
Davies, Eric, and A. N. Heightman, to The Marconi Co. Ltd. Signal correcting circuit arrangements. 3,149,287, 9–15–64, Cl. 328—140.
Davies, Eric T. J., and R. J. Rosser. Rocketwise propelled projectiles of the unguided type. 3,118,377, 1–21–64, Cl. 102—49.
Davies, George, ½ to H. Wertheiwer. Abrasive elements. Re. 25,582, 5–19–64, Cl. 29—78.
Davies, Gilbert E., and E. V. Weissbrodt, to Superior Ball Joint Corp. Method of fabricating a ball and socket assembly. 3,141,231, 7–21–64, Cl. 29—149.5.
Davies, Harold G. Testing apparatus. 3,125,884, 3–24–64, Cl. 73—514.
Davies, James F.: *See*—
White, Roger F., Davies, and Schulkin. 3,151,448.
Davies, James J., and W. E. Walles, to The Dow Chemical Co. Certain tris(2-oxazolidinone)-phosphinylidynes. 3,149,-121, 9–15–64, Cl. 260—307.
Davies, James W.: *See*—
Carow, Walter M., and Davies. 3,143,719.
Davies, John T. Margin return automatically actuated by spacer bar. 3,162,289, 12–22–64, Cl. 197—65.
Davies, Merton E., to The Rand Corp. Photographic apparatus. 3,143,048, 8–4–64, Cl. 95—12.5.
Davies, Norman E.: *See*—
Watelet, Ermand L., and Davies. 3,131,482.
Davies, Richard E., to Associated Electrical Industries Ltd. Control of strip driving means. 3,156,397, 11–10–64, Cl. 226—42.
Davies, Robert, Jr., to Youngstown Foundry & Machine Co. Method for loading workpieces onto a lathe. 3,140,626, 7–14–64, Cl. 82—1.
Davies, Thomas P., to Johnson & Johnson. Process of making a surgical dressing. 3,132,984, 5–12–64, Cl. 156—334.
Davies, William E.: *See*—
Meckstroth, Robert C., Sulek, Morin, Day, Silcott, and Davies. 3,139,026.
Davies, William T., F. H. Stark, and H. S. Bateman, to Rolls-Royce Ltd. Manufacture of turbine and compressor blades. 3,156,808, 11–10–64, Cl. 219—69.
D'Avigdor, Leslie B., deceased; by S. J. Schwartz, executor. Sway control apparatus. 3,154,320, 10–27–64, Cl. 280—112.
Da Vinci, Anthony P.: *See*—
Anderer, Joseph H., Da Vinci, and McHugh. 3,156,605.
Davis, Alfred C., to The Imperial Tobacco Co. (of Great Britain and Ireland) Ltd. Method for treating tobacco. 3,136,321, 6–9–64, Cl. 131—140.
Davis, Allan C., to F. A. Davis & Sons, Inc. Strip severing machine. 3,128,928, 4–14–64, Cl. 225—100.
Davis, Allan C., to F. A. Davis & Sons, Inc. Strip severing machine. 3,140,026, 7–7–64, Cl. 225—100.
Davis, Ariel R. Electrical apparatus for controlling current and voltage. 3,128,440, 4–7–64, Cl. 323—60.
Davis, Ariel R. Peaking ballast comprising inductive means having nonmagnetic gaps in flux paths. 3,135,938, 6–2–64, Cl. 336—165.
Davis, Ariel R. Variable transformer and winding. 3,153,212, 10–13–64, Cl. 336—149.
Davis, Ariel R. Interlocking casing. 3,159,436, 12–1–64, Cl. 312—107.
Davis, Arthur L. Fogging gun for insecticides and the like. 3,134,191, 5–26–64, Cl. 43—129.
Davis, Augustine, Jr., and J. A. Nichols, to Davisbilt Steel Joist Inc. Metal joist. 3,131,791, 5–5–64, Cl. 189—37.
Davis, Bret. Compensating spring devices. 3,132,855, 5–12–64, Cl. 267—60.
Davis, Charles, Ltd.: *See*—
Grubb, Lewis W. 3,129,493.
Davis, Charles A., to The Ohio Brass Co. Valve testing and fixture therefor. 3,131,558, 5–5–64, Cl. 73—40.
Davis, Charles A., to W. J. Young Machinery Co., Inc. Nailing feed machine mechanism. 3,142,841, 8–4–64, Cl. 1—6.
Davis, Charles B.: *See*—
Williams, Jack, and Davis. 3,162,528.
Davis, Charles C., to Litton Systems, Inc. Phonograph reproducer. 3,142,729, 7–28–64, Cl. 179—100.41.
Davis, Charles J., to Massey-Ferguson, Inc. Transversely shiftable boom mounting for mechanical shovels. 3,117,-685, 1–14–64, Cl. 214—138.
Davis, Charles J., and J. J. Lesher; said Lesher assor. to said Davis. Trencher chain digger bucket assembly. 3,133,365, 5–19–64, Cl. 37—86.
Davis, Charles L.: *See*—
Alexander, James W., and Davis. 3,131,160.
Davis, Charles S., Jr., and S. W. Baker, to Bergen Research Engineering Corp. Gear type transmissions. 3,144,790, 8–18–64, Cl. 74—801.
Davis, Charley W., Jr. Bidet and douche attachments for toilet bowls. 3,156,929, 11–17–64, Cl. 4—7.
Davis, Claude W. Golf practice device including a magnet displaceable by a golfer's swing. 3,136,553, 6–9–64, Cl. 273—186.
Davis, Clyde W., and F. A. Ehlers, to The Dow Chemical Co. Acrylonitrile polymer compositions. 3,133,039, 5–12–64, Cl. 260—45.5.
Davis, Dale R., C. C. Natale, and C. J. Fox, to Eastman Kodak Co. Electrophotographic layers and sensitizers for same. 3,141,770, 7–21–64, Cl. 96—1.
Davis, Donald H., and F. S. O'Bryon, to General Electric Co. Steam valve disk assembly with internal bypass valve. 3,141,476, 7–21–64, Cl. 137—630.14.
Davis, Donovan C.: *See*—
Van Alstyne, Cutler, and Davis. 3,159,837.
Davis, Earl K. Spreader for viscous materials. 3,119,138, 1–28–64, Cl. 15—236.
Davis, Edward M., Jr., to International Business Machines Corp. Binary adder. 3,148,274, 9–8–64, Cl. 235—172.
Davis, F. A., & Sons, Inc.: *See*—
Davis, Allan C. 3,128,928.
Davis, Allan C. 3,140,026.
Davis, Felix A.: *See*—
Appelt, Weldon F., and Davis. 3,147,714.
Davis Flow Valve, Inc.: *See*—
Davis, Harry S. 3,154,090.
Davis, Francis A., Jr., and J. F. Flannery, to Paramount Packaging Corp. Stacking device. 3,159,399, 12–1–64, Cl. 271—89.
Davis, Francis E., Jr. Alternate annular isothermal reactor. 3,127,247, 3–31–64, Cl. 23—288.
Davis, Francis J.: *See*—
Reinhardt, Paul W., and Davis. 3,140,398.
Davis, Frank F. Drilling saw. 3,127,944, 4–7–64, Cl. 175—329.
Davis, Frank F. Drilling system with plural below ground motors. 3,161,243, 12–15–64, Cl. 175—95.
Davis, Frank L. Safety belt buckle. 3,130,467, 4–28–64, Cl. 24—230.
Davis, Frank L. Seat belt buckle. 3,131,446, 5–5–64, Cl. 24—77.
Davis, Frank L. Covered life preserver with automatic cover discharging self-inflation. 3,143,751, 8–11–64, Cl. 9—318.
Davis, Geoffrey, to International Standard Electric Corp. Electrical spring contact sockets. 3,140,907, 7–14–64, Cl. 339—17.
Davis, George T., to Jersey Production Research Co. Chemical method of injecting water shut-off agent in air drilling. 3,141,513, 7–21–64, Cl. 175—72.
Davis, Gurney G., to Burlington Industries, Inc. Quill counter for automatic winding machines. 3,151,818, 10–6–64, Cl. 242—35.5.
Davis, Harry S., to Davis Flow Valve, Inc. Sequencing valve. 3,154,090, 10–27–64, Cl. 137—119.
Davis, Henderson G. Slip-proof wrench. 3,121,356, 2–18–64, Cl. 81—119.
Davis, Henry F., to Minneapolis-Honeywell Regulator Co. Signal amplitude discriminator. 3,123,774, 3–3–64, Cl. 328—1.
Davis, Henry F., to Minneapolis-Honeywell Regulator Co. System with plural inputs having feedback means for preventing interaction between said inputs. 3,146,401, 8–25–64, Cl. 328—147.
Davis, Herman E.: *See*—
Hoyle, Vinton A., Jr., and Davis. 3,157,710.
Touey, George P., and Davis. 3,152,993.
Davis, Hubert A. Cleaning device with pad and handle. 3,131,409, 5–5–64, Cl. 15—244.
Davis, Jack R.: *See*—
Harper, Billy G., and Davis. 3,130,139.
Davis, Jack T.: *See*—
Sexton, Don W., Ball, and Davis. 3,159,787.
Davis, James A., and H. E. Hagerty, to Armour and Co. Separating apparatus. 3,136,422, 6–9–64, Cl. 209—82.
Davis, James B., to Monsanto Co. Fire-resistant functional fluids. 3,149,077, 9–15–64, Cl. 252—75.
Davis, James E.: *See*—
Hanson, Bernard B., Stoligrosz, and Davis. 3,151,610.
Davis, James R.: *See*—
Cook, Aaron L., Davis, and Shockley. 3,120,668.
Davis, James R., and M. C. Doolittle, to The Trane Co. Heating and cooling apparatus. 3,129,753, 4–21–64, Cl. 165—36.

Davis, John B., and R. L. Raymond, to Socony Mobil Oil Co., Inc. Microbial disposal of oily wastes. 3,152,983, 10–13–64, Cl. 210—11.
Davis, John D.: *See*—
Barnett, Louis H., and Davis. 3,144,940.
Davis, John E., to Bio-Science Laboratories. Agitator for laboratory tubes and flasks. 3,159,384, 12–1–64, Cl. 259—72.
Davis, John H., and W. F. Harbison, to General Dynamics Corp. Fastening device. 3,128,813, 4–14–64, Cl. 151—41.72.
Davis, John H., to General Dynamics Corp. Blind rivet having means for retaining the expansion bolt. 3,136,203, 6–9–64, Cl. 85—40.
Davis, John H., Jr.: *See*—
Kuzell, Charles R., Fowler, Davis, Klein, and MacDougall. 3,125,439.
Davis, John L.: *See*—
Theodore, Ralph G., and Davis. 3,153,140.
Davis, John R., and J. E. Whatley, to United Gas Corp. Limited-rotation unidirectional drive. 3,130,826, 4–28–64, Cl. 192—12.
Davis, John S., to Equitable Paper Bag Co., Inc. Book mailer. 3,130,895, 4–28–64, Cl. 229—40.
Davis, John S., to Equitable Paper Bag Co. Inc. Burst resistant paper shopping bag. 3,144,815, 8–18–64, Cl. 93—35.
Davis, John S., to Equitable Paper Bag Co., Inc. Making bags with enclosed stiffener at top. 3,148,598, 9–15–64, Cl. 93—8.
Davis, John S., to Equitable Paper Bag Co., Inc. Shopping bag. 3,156,166, 11–10–64, Cl. 93—35.
Davis, John S., and W. H. F. Grob, to Equitable Paper Bag Co. Coin controlled shopping bag dispenser. 3,119,484, 1–28–64, Cl. 194—2.
Davis, John V., to The Udylite Corp. Elevating and transfer mechanism. 3,116,821, 1–7–64, Cl. 198—19.
Davis, John V., to The Udylite Corp. Conveying machine. 3,119,486, 1–28–64, Cl. 198—19.
Davis, John V., to The Udylite Corp. Carrier stop mechanism. 3,149,581, 9–22–64, Cl. 104—162.
Davis, John W., to Dunlop Rubber Co. Ltd. Caliper-type disc brakes. 3,129,790, 4–21–64, Cl. 188—73.
Davis, John W., to Dunlop Rubber Co. Ltd. Caliper type disc brake. 3,135,359, 6–2–64, Cl. 188—73.
Davis, Joseph H. R., Jr., and E. M. Honeycutt, to Sun Oil Co. Process for color stabilization and hydrodesulfurization or cracked gas oils. 3,162,597, 12–22–64, Cl. 208—216.
Davis, Kenneth J., and A. B. Bassoff, to National Broach & Machine Co. Mechanical feeding mechanism for machine tool. 3,133,448, 5–19–64, Cl. 74—142.
Davis, Leo R. Safety device for tractors. 3,143,180, 8–4–64, Cl. 180—14.5.
Davis, Les, Fishing Tackle Co.: *See*—
Davis, Lester M. 3,127,694.
Davis, Lester M. 3,146,542.
Davis, Lester M., to Les Davis Fishing Tackle Co. Fishing spinning lure. 3,127,694, 4–7–64, Cl. 43—42.19.
Davis, Lester M., to Les Davis Fishing Tackle Co. Wobble spoon. 3,146,542, 9–1–64, Cl. 43—42.5.
Davis, Lewis M.: *See*—
Burns, Leo C., Davis, De Bruin, and Saylor. 3,124,364.
Naperala, Clement E., and Davis. 3,153,540.
Davis, Lewis M., to Sealed Power Corp. Self-cleaning piston ring. 3,124,362, 3–10–64, Cl. 277—24.
Davis, Lincoln K., and D. G. McLelland, to The Foxboro Co. Ink supply. 3,140,912, 7–14–64, Cl. 346—140.
Davis, Lloyd R. Portable tool for machining conduit ends. 3,119,288, 1–28–64, Cl. 77—73.
Davis, Louis D., to Amsted Industries Inc. Railway tread brake arrangement. 3,120,881, 2–11–64, Cl. 188—195.
Davis, Louis H., to Concrete Steps, Inc. Mold for casting a concrete step unit. 3,126,605, 3–31–64, Cl. 25—118.
Davis, Lowell: *See*—
Berry, Joe R. 3,160,111.
Davis-Lynch, Inc.: *See*—
Davis, William A. 3,123,517.
Davis, Lynn T., to Puritan Compressed Gas Corp. Sanitary sealing apparatus for ports of medical gas cylinder valves. 3,125,242, 3–17–64, Cl. 220—85.
Davis, Manfred, to General Precision, Inc. Phase measuring device including frequency multiplying means for accomplishing fine and coarse measurements. 3,150,316, 9–22–64, Cl. 324—88.
Davis, Marion F., and A. L. Hedrich. Missile guidance system. 3,141,635, 7–21–64, Cl. 244—14.
Davis, Martin, to American Home Products Corp. Ester of 1-methyl-3-(hydroxyethoxy)piperidine. 3,126,379, 3–24–64, Cl. 260—243.
Davis, Martin A.: *See*—
Winthrop, Stanley O., and Davis. 3,133,935.
Davis, Martin A., to American Home Products Corp. Dibenzocycloheptadienyl isocyanate and acetylureas. 3,129,238, 4–14–64, Cl. 260—453.
Davis, Martin A., to American Home Products Corp. Basic alkoxyalkyl xanthene-9-carboxylate and its acid addition salts. 3,133,937, 5–19–64, Cl. 260—335.
Davis, Martin A., to American Home Products Corp. Spirooxazolidinedione derivatives. 3,138,608, 6–23–64, Cl. 260—307.
Davis, Martin A., to American Home Products Corp. Basic esters of 5-hydroxydibenzo [a,d] [1,4] cycloheptadiene-5-carboxylic acid. 3,142,681, 7–28–64, Cl. 260—294.3.
Davis, Martin A., to American Home Products Corp. Ethylenediamine derivative. 3,144,451, 8–11–64, Cl. 260—243.
Davis, Martin A., to American Home Products Corp. Spiro-[dibenzo [a,d] [1,4] cycloheptadiene-5, alpha-succinimide]. 3,153,050, 10–13–64, Cl. 260—326.5.
Davis, Martin A., and S. O. Winthrop, to American Home Products Corp. Alicyclid acetylenic carbinol and preparation thereof. 3,134,820, 5–26–64, Cl. 260—618.
Davis, Martin A., and F. Herr, to American Home Products Corp. Spirohydantoin derivative. 3,162,646, 12–22–64, Cl. 260—309.5.
Davis, Marvin A.: *See*—
Wahrman, Robert A., Davis, and Courcoulas. 3,153,200.
Davis, Merton L., and L. C. Palmer, to E. I. du Pont de Nemours and Co. Process for providing high density dry spun acrylonitrile polymer filaments. 3,124,631, 3–10–64, Cl. 264—290.
Davis, Michael, and C. E. Kraus; said Davis assor. to Curtiss-Wright Corp., and said Kraus assor. to Excelermatic Inc. Ratio control for toroidal transmission. 3,142,189, 7–28–64, Cl. 74—200.
Davis, Mike B. Traction aid for wheeled vehicles. 3,130,767, 4–28–64, Cl. 152—216.
Davis, Miles: *See*—
Cerasani, Americo J., Codichini, Davis, and Lewis. 3,135,179.
Cerasani, Americo J., Codichini, Davis, and Lewis. 3,135,180.
Davis, Milton W., Jr.: *See*—
Winsche, Warren E., and Davis. 3,152,984.
Davis, Nathan W. Treatment of complex ores. 3,135,597, 6–2–64, Cl. 75—2.
Davis, Nathan W. Destructive distillation of gilsonite and products thereof. 3,135,619, 6–2–64, Cl. 106—248.
Davis, Noah S.: *See*—
Dryden, Hugh L. 3,135,089.
Davis, Noah S., and J. W. Mohlman, to North American Aviation, Inc. Water purification process using an absorption refrigeration cycle. 3,137,555, 6–16–64, Cl. 62—58.
Davis, Orland T. Stripping tool. 3,116,554, 1–7–64, Cl. 30—91.
Davis, Orris L., and R. W. Dorn, to Shell Oil Co. Ethyl amyl ketone peroxide. 3,151,170, 9–29–64, Cl. 260—610.
Davis, Orvis A., Sr.: *See*—
Biber, Albert, and Davis. 3,144,897.
Davis, Orvis A., Sr., to Gulf Research & Development Co. Aspirating liquid fuel burner. 3,131,749, 5–5–64, Cl. 158—4.
Davis, Orvis A., Sr., and M. G. Frankoff, to Gulf Research & Development Co. Perforated tube combustion apparatus and process. 3,150,708, 9–29–64, Cl. 158—28.
Davis, Oscar B., to H.V. Developments Ltd. Vending machine. 3,144,285, 8–11–64, Cl. 312—97.1.
Davis, Paul, to Sweetheart Plastics, Inc. Nestable article. 3,122,264, 2–25–64, Cl. 220—97.
Davis, Paul, to Sweetheart Plastics, Inc. Container cover. 3,137,409, 6–16–64, Cl. 220—97.
Davis, Pauls, and O. W. Burke, Jr., to O. W. Burke, Jr. High energy fuel units and assemblies. 3,163,113, 12–29–64, Cl. 102—98.
Davis, Philip C., and M. L. Gould, to Ethyl Corp. Mixing apparatus for use in the chlorination of alkanes. 3,154,-103, 10–27–64, Cl. 137—625.4.
Davis, Philip W.: *See*—
Gardiner, Terence E. G., and Davis. 3,134,226.
Davis, Ralph A.: *See*—
Burk, George A., and Davis. 3,159,686.
Rausch, Douglas A., Kroon, and Davis. 3,145,082.
Davis, Ralph B., to University of Notre Dame. Arylcyanomethylene quinone oximes and their derivatives. 3,156,-704, 11–10–64, Cl. 260—396.
Davis, Ralph M., to Container Corp. of America. Shipping container with reusable closure flap. 3,142,432, 7–28–64, Cl. 229—38.
Davis, Ray F., and A. Gudmundsen, to McCulloch Corp. Tree pruning device. 3,158,933, 12–1–64, Cl. 30—276.
Davis, Raymond L., II, to Leeds and Northrup Co. Measurement and control of constituent potentials. 3,128,323, 4–7–64, Cl. 266—2.
Davis, Reginald F., to Sulzer Freres, S.A. Forced flow steam generator. 3,129,698, 4–21–64, Cl. 122—510.
Davis, Rex M., to Brush Electrical Engineering Co. Ltd. Synchronous induction motor speed control. 3,148,320, 9–8–64, Cl. 318—171.
Davis, Robert E., to General Motors Corp. Ice mold. 3,120,-112, 2–4–64, Cl. 62—369.
Davis, Robert E., Jr.: *See*—
Kretzmer, Minor G., Jr., Davis, and Gross. 3,140,783.
Davis, Robert E., Jr., to The A. C. Gilbert Co. Model stop-go traffic light. 3,143,721, 8–4–64, Cl. 340—84.
Davis, Robert H. Active thin-film devices controlling current by modulation of a quantum mechanical potential barrier. 3,121,177, 2–11–64, Cl. 307—88.5.
Davis, Robert H., to Socony Mobil Oil Co., Inc. Lubricant composition containing dispersed calcium acetate. 3,121,-689, 2–18–64, Cl. 252—40.5.
Davis, Robert L. Watch crown seal. 3,130,539, 4–28–64, Cl. 58—90.

Davis, Roger A.: *See*—
Hewitt, Alan R., and Davis. 3,123,195.
Davis, Roger A., to International Computers and Tabulators Ltd. Web feeding apparatus. 3,149,766, 9–22–64, Cl. 226—76.
Davis, Ronald N. Apparatus for luplicating reelable film. 3,160,086, 12–8–64, Cl. 95—77.5.
Davis, Roy E.: *See*—
Abildgaard, William H., and Davis. 3,117,341.
Davis, Ruffin P.: *See*—
Hays, Archie A., and Davis. 3,135,219.
Davis, Russell S., to I-T-E Circuit Breaker Co. Circuit breaker disabling means. 3,120,629, 2–4–64, Cl. 317—119.
Davis, Sadie P.: *See*—
Edwards, Charles F. 3,129,601.
Davis, Selby B.: *See*—
Gadekar, Shreekrishna M., Vaughan, and Davis. 3,123,-612.
Davis, Stanley M.: *See*—
Bollyky, Laszlo, Davis, and Dundon. 3,133,117.
Davis, Stanley M., R. G. Fessler, and G. L. Roberts, Jr., to American Cyanamid Co. Dispersible pigments. 3,159,498, 12–1–64, Cl. 106—308.
Davis, Steven S., to The Eimco Corp. Web aligning means. 3,117,462, 1–14–64, Cl. 74—241.
Davis, Thomas A. Safety lock for pivoted seat backs. 3,157,-433, 11–17–64, Cl. 297—379.
Davis, Thomas C., and J. W. Willis, to AMP Inc. Cable installing and wrapping apparatus. 3,162,992, 12–29–64, Cl. 57—10.
Davis, Thomas E. Sled. 3,140,878, 7–14–64, Cl. 280—18.
Davis, Wallace E., to Super-Cut, Inc. Composite lap for grinding and polishing machines. 3,128,580, 4–14–64, Cl. 51—131.
Davis, Walter B., to Portable Electric Tools, Inc. Scroll saw attachment for sabre saw. 3,117,600, 1–14–64, Cl. 143—70.
Davis, Walter E., and R. F. Callaway, to Celanese Corp. of America. Method and apparatus for twisting yarn. 3,119,-225, 1–28–64, Cl. 57—75.
Davis, Walter T. Tool. 3,142,897, 8–4–64, Cl. 29—259.
Davis, Wayne E.: *See*—
Swanson, Eric R., and Davis. 3,161,880.
Davis, Wilbur A. Adjustable wrench. 3,161,092, 12–15–64, Cl. 81—128.
Davis, William A., to Davis-Lynch, Inc. Conduit string fill-up device. 3,123,517, 3–3–64, Cl. 166—224.
Davis, William C., to General Electric Co. Bypass disconnect type switch. 3,118,032, 1–14–64, Cl. 200—87.
Davis, William E. Adjustable diaphragm pump. 3,149,572, 9–22–64, Cl. 103—37.
Davis, William F. Machinery for apportioning and dispensing fluids. 3,134,326, 5–26–64, Cl. 101—366.
Davis, William J., and R. C. Gilles, to Polymer Processes, Inc. Ferromagnetic structure and method for preparing same. 3,152,082, 10–6–64, Cl. 252—62.5.
Davis, William L., Jr., and J. H. Baugh. Football drier. 3,152,875, 10–13–64, Cl. 34—104.
Davis, William R., ½ to I. B. Levenson, and ¼ to W. H. Poole. Fibre board container. 3,149,769, 9–22–64, Cl. 229—17.
Davis, William S., III, to The Ryan Aeronautical Co. Synchro adjustment tool. 3,133,463, 5–19–64, Cl. 81—65.
Davis, William W.: *See*—
Pohm, Arthur V., and Davis. 3,117,885.
Davis, William W., and A. V. Pohm, to Sperry Rand Corp. Binary to decimal matrix converter. 3,159,828, 12–1–64, Cl. 340—347.
Davis, Willie T.: *See*—
Rager, Edgar A., Davis, and Day. 3,144,812.
Davisbilt Steel Joist Inc.: *See*—
Davis, Augustine, Jr., and Nichols. 3,131,791.
Davison, Richard H., J. G. Simon, and J. O. Esselstyn, to Sylvania Electric Products Inc. Web transport. 3,122,-295, 2–25–64, Cl. 226—50.
Davison, Robert J. Control for power tool and the like. 3,134,275, 5–26–64, Cl. 74—789.
Davison, Samuel M., Jr., to Dacor Corp. Safety float. 3,128,-481, 4–14–64, Cl. 9—316.
Davison, Walter F.: *See*—
Ford, John L., and Davison. 3,160,815.
Davison, William H. T.: *See*—
Hughes, Thomas P., and Davison. 3,132,966.
Davoll, John: *See*—
Bowman, Ralph E., Cavalla, and Davoll. 3,157,671.
Davy, Kenneth, to Rotax Ltd. Overcurrent protection unit for alternating current machines. 3,119,951, 1–28–64, Cl. 317—13.
Davy, Robert E. Collapsible liquid container with retractable spout. 3,137,419, 6–16–64, Cl. 222—527.
Davy and United Engineering Co. Ltd.: *See*—
Allen, Leslie. 3,147,650.
Briggs, Peter R. A. 3,128,630.
Ferguson, Hugh C. 3,129,829.
Harrison, James A., and Howard. 3,161,044.
Hinchliffe, Oliver G. 3,160,287.
Rees, Henry A., and Shimeld. 3,143,337.
Sherburn, Trevor W., and Lingard. 3,153,110.
Sims, Raymond B. 3,149,404.
Sims, Raymond B., and Harrison. 3,134,279.
Daw Corp., The: *See*—
Holcombe, Ralph L. 3,135,381.
Daw, Donald G., to American Flange & Mfg. Co., Inc. Paint brushes and the like. 3,130,434, 4–28–64, Cl. 15—192.
Daw, Reginald F., to Dunlop Rubber Co. Ltd. Tire bead clamping structure. 3,150,704, 9–29–64, Cl. 152—400.
Dawe's Laboratories, Inc.: *See*—
Ward, George E., and Dereniuk. 3,155,521.
Dawes, Robert T., to Taylor, Thomas, & Sons, Inc. Elastically stretchable cordage. 3,130,630, 4–28–64, Cl. 87—2.
Dawirs, Willis R.: *See*—
Fiske, Paul E., Keeran, Dawirs, Higgins, Terp, Humpherys, Szewzuk, Fischer, and Naylor. 3,156,-895.
Dawkins, John C. F., to Diagrit Electrometallics Ltd. Tool for dressing the surface of a conical hole. 3,154,894, 11–3–64, Cl. 51—206.
Dawley, Daniel B., to General Electric Co. Refrigerator cabinet including improved spacer means. 3,129,837, 4–21–64, Cl. 220—15.
Dawley, Daniel B., to General Electric Co. Foam insulated door structure including electrical hinge. 3,156,019, 11–10–64, Cl. 20—16.
Daws, Sailajananda, and G. A. Battersby, to Associated Electrical Industries Ltd. Multi-pole polyphase induction motors. 3,118,099, 1–14–64, Cl. 318—224.
Dawson, John: *See*—
Martin, Alfred D., and Dawson. 3,161,732.
Dawson, Arnold R., and R. V. Todd. Collapsible shelters. 3,161,231, 12–15–64, Cl. 160—132.
Dawson, Arthur E., to Air Reduction Co., Inc. Seam follower holding means. 3,131,283, 4–28–64, Cl. 219—60.
Dawson, Charles A., and R. W. Ross, to Lockheed Aircraft Corp. Method for forming an integral flange on a metal tube. 3,122,830, 3–3–64, Cl. 29—542.
Dawson, Fred: *See*—
Smalley, Edwin P., Dawson, and Entin. 3,119,133.
Dawson, Fred, E. J. Vickers, and D. R. Sheard, to Imperial Chemical Industries Ltd. Treatment of textile materials. 3,140,198, 7–7–64, Cl. 117—139.5.
Dawson, Norman D., to Miles Laboratories, Inc. Acetylenic W-haloalkylamines. 3,160,664, 12–8–64, Cl. 260—570.5.
Dawson, Percy B., to Baldwin-Lima-Hamilton Corp. Energy converter. 3,142,314, 7–28–64, Cl. 137—604.
Dawson, Roger N., to The Plessey Co. Ltd. Apparatus for the high temperature testing of dielectric materials. 3,136,-945, 6–9–64, Cl. 324—58.
Dawson, Timothy L., and W. P. Mills, to Imperial Chemical Industries Ltd. New dyeing process. 3,129,052, 4–14–64, Cl. 8—54.
Dawson, Timothy L., and J. G. Graham, to Imperial Chemical Industries Ltd. Process for dyeing woolen textiles with metal complex azo dyestuffs. 3,157,458, 11–17–64, Cl. 8—43.
Day, Alan R. A.: *See*—
Dickinson, Ronald S., and Day. 3,152,665.
Day, Alan R. A., to Armstrong Patents Co., Ltd. Adjustable hydraulic shock absorbers. 3,125,186, 3–17–64, Cl. 188—88.
Day Co., N.V.: *See*—
Bedell, John R., and Tsonev. 3,147,167.
Beste, Frederick J., Jr. 3,148,098.
Schneble, Frederick W., Jr., McCormack, Zeblisky, and Polichette. 3,146,125.
Day, Franklin F.: *See*—
Rager, Edgar A., Davis, and Day. 3,144,812.
Day, Guy C. Artificial tree. 3,144,375, 8–11–64, Cl. 161—24.
Day, Harold R., Jr., to General Electric Co. Information recording and developing apparatus. 3,154,369, 10–27–64, Cl. 346—77.
Day, Harold R., Jr., E. M. Boldebuck, and J. W. Eustance, to General Electric Co. Gas tight seal and method of manufacture. 3,136,441, 6–9–64, Cl. 220—2.1.
Day, Harry E. Electrode holder. 3,139,513, 6–30–64, Cl. 219—120.
Day, J. H., Co., The: *See*—
Broomall, Robert M. 3,151,847.
Day, James L., 50% to B. W. Pressley. Armor rod applying tool. 3,161,009, 12–15–64, Cl. 57—10.
Day, John B., Jr.: *See*—
McCrory, Rollin J., McNinch, Daggett, and Day. 3,146,-940.
Day, John H.: *See*—
Meckstroth, Robert C., Sulek, Morin, Day, Silcott, and Davies. 3,139,026.
Day, Leslie B., and R. C. Watkins, to Esso Research and Engineering Co. Lubricant composition. 3,143,513, 8–4–64, Cl. 252—51.5.
Day, Luther F., to Atlantic Research Corp. Multiple repertory dialing telephone system. 3,125,643, 3–17–64, Cl. 179—90.
Day, Richard I., to E. I. du Pont de Nemours and Co. Process for separating secondary fluoroalcohols. 3,151,171, 9–29–64, Cl. 260—633.
Day, Stewart T., to Crown Machine & Tool Co., Inc. Method of impregnating polystyrene beads with butane in a non-aqueous environment to render said beads foamable. 3,126,-354, 3–24–64, Cl. 260—2.5.
Day, Thomas A., to Du Pont of Canada Ltd. Plastic bag. 3,123,279, 3–3–64, Cl. 229—53.
Dayco Corp.: *See*—
Edwards, Charles E. 3,127,227.
Edwards, Charles E. 3,152,361.
Macleod, John A. 3,152,387.
Marco, Salvatore M., and Woodrow. 3,152,402.
Rockoff, Joseph. 3,150,114.
Rothermel, Edward M., and Waddell. 3,152,618.

Daykin, Donald R., to International Business Machines Corp. Pulse generating circuit. 3,121,800, 2–18–64, Cl. 307—88.
Daymon, Deall. Collapsible truncated conical reflector. 3,151,206, 9–29–64, Cl. 88—73.
Daymon, William G., Jr., to United States of America, Navy. Hoisting apparatus. 3,146,016, 8–25–64, Cl. 294—67.
Daystrom Inc.: *See*—
Blanco, Elias. 3,120,650.
Freeman, Robert W., and Hageman. 3,122,018.
Gilbert, Roswell W. 3,138,760.
Lamb, Francis X. 3,137,223.
Lender, Robert J., and Gugliotta. 3,119,962.
Pattee, John R. 3,128,429.
Pierson, Vaughn F., Hageman, and Eadie. 3,124,002.
Pratt, William W. 3,119,919.
Smith, Gerald. 3,132,302.
Dayton Co., Inc.: *See*—
Lehde, Richard H. 3,127,483.
Dayton Formold Inc.: *See*—
Irwin, Harry B. 3,132,417.
Dayton Malleable Iron Co., The: *See*—
Hunsaker, Oral K. 3,147,828.
Dayton Perforators, Inc.: *See*—
Bleicher, Robert L. 3,118,260.
Bleicher, Robert L. 3,155,440.
Gargrave, Robert A. 3,145,861.
Dayton Steel Foundry Co., The: *See*—
Frazier, Van L. 3,147,963.
Frazier, Van L. 3,157,412.
Walther, Daniel A. 3,129,034.
Walther, Daniel A. 3,146,031.
Walther, Daniel A. and W. D. 3,160,441.
Walther, William D. 3,144,275.
Walther, William D. and D. A. 3,160,442.
Dayus, Lloyd G. Adjustable air diffuser. 3,155,027, 11–3–64, Cl. 98—40.
Dazley, Frederick C., D. G. Kimball, and W. Vermeulen, to General Electric Co. Fastening means for securing a fluorescent lampholder to a panel. 3,138,418, 6–23–64, Cl. 339—50.
Dazzi, Joachim, to Monsanto Co. Vinyl chloride polymers plasticized with fumarate adducts. 3,149,088, 9–15–64, Cl. 260—31.8.
Deacon, William H., Sr. Holder with severing device for strand materials. 3,133,683, 5–19–64, Cl. 225—62.
Deakin, Stanley T., to Sealectro Corp. Electric socket contacts. 3,120,418, 2–4–64, Cl. 339—126.
Deakin, Stanley T., to Sealectro Corp. Electric socket contacts and electric-circuit selectors using such contacts. 3,152,849, 10–13–64, Cl. 339—18.
Deakin, Stanley T., and A. E. Powell, to Sealectro Corp. Diode receptacle. 3,145,329, 8–18–64, Cl. 317—234.
Deal, Bruce E.: *See*—
Martin, Hubert, Deal, and Swanson. 3,153,278.
Deal, Bruce E., and L. Swanson, to Kaiser Aluminum & Chemical Corp. Anodic oxidation of aluminum. Re. 25,566, 4–28–64, Cl. 204—58.
Deal, Carl H.: *See*—
Papadopoulos, Michael N., Deal, and Young. 3,146,190.
Deal, Carl H., Jr., E. L. Derr, and M. N. Papadopoulos, to Shell Oil Co. Method of removing acidic gases from gaseous mixtures. 3,161,461, 12–15–64, Cl. 23—3.
Deal, Elmer F., and I. M. Richlin, to Lithoplate, Inc. Diazo presensitized lithographic plate base comprising a urea-formaldehyde intermediate layer and process for making. 3,136,639, 6–9–64, Cl. 96—75.
Deal, Elmer F., and I. M. Richlin, to Lithoplate, Inc. Diazo sensitized lithographic plate comprising a hydrophilic amine formaldehyde intermediate layer. 3,161,518, 12–15–64, Cl. 96—75.
Deal, Lewis A. Apparatus for aging alcoholic spirits. 3,119,-321, 1–28–64, Cl. 99—277.1.
Deal, Robert S., to Raychem Corp. Insulated clamp. 3,159,-708, 12–1–64, Cl. 174—40.
Dealer Associates, Inc.: *See*—
Brewer, Willie F. 3,158,978.
Dealy, John M., and A. A. Green, to Albert Pipe Supply Co., Inc. H-beam pile connectors. 3,119,635, 1–28–64, Cl. 287—108.
Dean, Albert G., to The Budd Co. Vehicle construction for minimizing collison damage. 3,138,118, 6–23–64, Cl. 105—392.5.
Dean, Albert G., to The Budd Co. Ventilation system for rapid transit car. 3,151,538, 10–6–64, Cl. 98—10.
Dean, Albert G., to The Budd Co. End panel assembly. 3,151,574, 10–6–64, Cl. 105—402.
Dean, Charles A.: *See*—
Deneau, Gordon P. 3,163,467.
Dean, Darwin E.: *See*—
Dunning, Franklin W., and Dean. 3,154,665.
Dean, Donald E.: *See*—
Gordon, Philip L., Dean, and Diedrich. 3,156,663.
Lukman, John C., Gordon and Dean. 3,125,556.
Dean, Francis H.: *See*—
Ferrari, William A., Anderson, and Dean. 3,161,305.
Dean, Fred: *See*—
Brown, Albyn W. N., Cotterill, Dean, and Whitfield. 3,155,718.
Dean, Gordon W., to Cannon Electric Co. Edge board printed circuit type connector. 3,133,780, 5–19–64, Cl. 339—258.
Dean, Harold F.: *See*—
Ede, Frank E., and Dean. 3,152,657.
Dean, Jesse W. and V. D. J. Hair dispensing holder for doll's head. 3,156,999, 11–17–64, Cl. 46—172.
Dean, John W.: *See*—
Christiansen, Robert G., Clinton, and Dean. 3,163,641.
Dean, John W., to Sterling Drug Inc. Ketals of 4,6-androstadien-17β-ol-3-ones and esters thereof. 3,146,231, 8–25–64, Cl. 260—239.55.
Dean, Mattie M.: *See*—
Dean, Reginald S. 3,139,336.
Dean Products, Inc.: *See*—
Raskin, Walter. 3,141,500.
Dean, Reeve W., and W. J. Short, to Niagara Machine & Tool Works. Ram arrester for press brakes. 3,129,799, 4–21–64, Cl. 192—129.
Dean, Reginald S., deceased; M. M. Dean, executrix, to J. J. McLaughlin. Copper refining. 3,139,336, 6–30–64, Cl. 75—75.
Dean, Robert V. Safety diaper pins. 3,144,691, 8–18–64, Cl. 24—1.
Dean, Robert W.: *See*—
Zoller, Linwood W., Jr., and Dean. 3,140,476.
Dean, Val B., to The Union Supply Co. Means for joining flexible belts. 3,141,346, 7–21–64, Cl. 74—231.
Dean, Vincent C., to United States of America, Army. Rotary friction shaft coupling. 3,157,054, 11–17–64, Cl. 74—17.8.
Dean, Voltairine D. J.: *See*—
Dean, Jesse W. and V. D. J. 3,156,999.
Dean, Walter A.: *See*—
Adams, Cecil S., Dean, and Martin. 3,124,843.
Dean, William M., L. H. Keisling, and M. E. Goodell. Combination fuel and oil can. 3,154,219, 10–27–64, Cl. 222—129.
Dean, William V.: *See*—
Towell, Billy H., Woodward, and Dean. 3,123,141.
Deane, Clifford T., to Thor Manufacturing Corp. Newspaper dispensing machine. 3,136,451, 6–9–64, Cl. 221—240.
Deane, Edward H., and R. J. Wilson, to Eastman Kodak Co. Viscous solution processing device. 3,117,508, 1–14–64, Cl. 95—89.
Deane, John. Means for evacuating and pressurizing a hollow body. 3,133,519, 5–19–64, Cl. 114—125.
Deaner, Leland D. Flower holder and arranger. 3,131,511, 5–5–64, Cl. 47—41.
De Angelis, Anthony. Food forming device. 3,153,811, 10–27–64, Cl. 17—32.
De Angelis, Armand, to American Optical Co. Ring-like retaining devices. 3,122,962, 3–3–64, Cl. 85—1.
De Angelus, Millet R.: *See*—
Dersch, Fritz, and De Angelus. 3,147,118.
Deanin, Rudolph D., and A. V. Pinter, to Allied Chemical Corp. p-N-methyl acetamidophenol as chain terminator for bisphenol polycarbonates. 3,133,045, 5–12–64, Cl. 260—47.
Deanin, Rudolph D., and A. V. Pinter, to Allied Chemical Corp. Processes for molecular weight control of polycarbonates. 3,155,635, 11–3–64, Cl. 260—47.
Deanin, Rudolph D., and A. V. Pinter, to Allied Chemical Corp. Fatty oil modified polycarbonate resins and processes for producing same. 3,157,606, 11–17–64, Cl. 260—18.
Dearborn, Elizabeth C., and P. K. Isaacs, to W. R. Grace & Co. Polyester-containing polyimidazolines. 3,144,434, 8–11–64, Cl. 260—75.
Dearborn Fabricating & Engineering Co.: *See*—
Wells, Russell G. 3,139,175.
Dearborn, Howard K. Gun drill. 3,153,356, 10–20–64, Cl. 77—68.
De Arbum, Rufo D. Repeating blow-gun. 3,137,287, 6–16–64, Cl. 124—12.
Dearing, Clarence W., to Americon Flange & Mfg. Co., Inc. Container wall closure combination and assemblies. 3,155,-295, 11–3–64, Cl. 222—525.
Dearling, Harry S., to Duval Sales Inc. Bath oil dispenser. 3,123,030, 3–3–64, Cl. 239—44.
Dearsley, George, to American Machine & Foundry Co. Apparatus for coating a moving web with adhesive. 3,162,-545, 12–22–64, Cl. 118—203.
Deasey, William: *See*—
London, Michael J., and Deasey. 3,144,092.
Deasy, John H., to Smith-Blair, Inc. Packaged flanged coupling adapter assembly. 3,129,812, 4–21–64, Cl. 206—47.
De August, Ingeborg W.: *See*—
August, Pablo, and De August. 3,145,976.
De Bacco, Michael, and H. Montgomery, to General Precision Inc. O-ring inserter. 3,132,414, 5–12–64, Cl. 29—235.
De Baillie, Arnold A.: *See*—
Willette, Wayne R., and De Baillie. 3,161,006.
De Barr, Albert E.: *See*—
Catling, Harold, De Barr, and Linnert. 3,137,040.
Linnert, Arthur, Catling, and De Barr. 3,141,202.
Debart, Hubert P., to Societe Alsacienne de Constructions Mechaniques. Separation of electric signals. 3,119,967, 1–28–64, Cl. 325—323.
De Baun, Robert M., and M. W. Michael, to American Cyanamid Co. Gas reforming method and catalyst and process for preparing the same. 3,147,092, 9–1–64, Cl. 48—196.
Debay, André G., and J. L. M. J. Thery. Anti-cholesterol nicotinic acid N-oxide. 3,143,469, 8–4–64, Cl. 167—65.
De Bell, Fred: *See*—
Wiley, Fred E., and F. and J. M. De Bell. 3,121,130.

De Bell, John M. : *See*—
Richardson, Henry M., Larson, and De Bell. 3,121,446.
Wiley, Fred E., and F. and J. M. De Bell. 3,121,130.
DeBell & Richardson, Inc. : *See*—
Eakins, William J., and Warner. 3,148,102.
Lovell, Walter C., and House. 3,154,418.
Nickerson, Mortimer H., Schnitzer, Curtis, and Patterson. 3,129,191.
De Benedictis, Aldo : *See*—
Hewett, William A., and De Benedictis. 3,151,181.
June, Ronald K., De Benedictis, and Williams. 3,129,195.
De Benedictis, Aldo, and G. J. Hills, to Shell Oil Co. Separation of sulfide ores. 3,137,649, 6–16–64, Cl. 209—11.
De Benneville, Peter L. : *See*—
Cenci, Henry J., Niederhauser, and De Benneville. 3,152,171.
De Benneville, Peter L., to Rohm & Haas Co. Aqueous dispersion of aminoplast and butene-2-diol-1,4. 3,135,710, 6–2–64, Cl. 260—29.4.
De Benneville, Peter L., and H. W. Blessing, to Rohm & Haas Co. Process for preparing chlorinated cyanoesters. 3,133,-954, 5–19–64, Cl. 260—465.4.
De Berard, Charles J. : *See*—
Isbey, Edward W., and De Berard. 3,132,581.
De Biasi, Charles P. Hydraulic system and apparatus for dump trucks vehicles. Re. 25,702, 12–22–64, Cl. 37—41.
De Biasi, Charles P. Spreader with rotatable hopper. 3,124,-274, 3–10–64, Cl. 222—136.
De Biasi, Charles P. Sand screen equipment. 3,142,341, 7–28–64, Cl. 171—136.
De Biasi, Charles P. Material spreading spinner. 3,156,473, 11–10–64, Cl. 275—15.
De Blasio, Conrad G. Transistor-regulated direct current power supply with remote programming capabilities. 3,138,752, 6–23–64, Cl. 323—22.
De Boer, Albert, to Knapp-Monarch Co. Inflator for CO_2 inflation device. 3,142,850, 8–4–64, Cl. 9—11.
De Boer, Clarence : *See*—
Dietz, Alma, De Boer, Smith, Bergy, and Hoeksema. 3,118,874.
De Boer, Clarence, A. Dietz, T. E. Eble, and C. M. Large, to The Upjohn Co. Streptolydigin and production thereof. 3,160,560, 12–8–64, Cl. 167—65.
De Boer, Geert, to Volma, N.V. Device for periodically filling cheese moulds with a metered lump of curd. 3,142,-904, 8–4–64, Cl. 31—13.
De Boer, Henri G. J., to N.V. Lichtdrukpapierfabriek De Atlas. Light-sensitive diazotype compositions. 3,155,512, 11–3–64, Cl. 96—91.
De Boer, John R. Panel mounted tie-down terminals. 3,142,-264, 7–28–64, Cl. 105—369.
De Boer, Nicolaas R., to Societe Anonyme Eternét. Couplings for pipes. 3,163,432, 12–29–64, Cl. 277—209.
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De Bolt, Frank C., and R. A. Hills, to United States of America, Navy. Sequential keyer. 3,153,733, 10–20–64, Cl. 307—88.5.
De Boy, Marvin F., F. D. Rogers, and R. E. Flexman, to United States of America, Navy. Side arm controller. 3,149,806, 9–22–64, Cl. 244—83.
De Boy, Marvin F., and R. E. Flexman, to Bell Aerospace Corp. Task trainer. 3,161,968, 12–22–64, Cl. 35—12.
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Debrie, Andre V. L. C. Accessory for use with developing machines. 3,119,319, 1–28–64, Cl. 95—89.
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De Bruin, Hugo J., to Ideal Industries, Inc. Shear-type wire stripper. 3,122,037, 2–25–64, Cl. 81—9.5.
De Bruin, Hugo J., to S. J. Forbes. Unitary percussion hand drill. 3,145,782, 8–25–64, Cl. 173—48.
De Bruyn, Hendrik E., to North American Philips Co., Inc. Spark erosion machine. 3,134,011, 5–19–64, Cl. 219—69.
De Bruyn, William T., and B. M. Sparks, to Grand Rapids Hardware Co. Combined weatherstrip and sash balance. 3,121,923, 2–25–64, Cl. 20—52.4.
De Bruyne, Norman A., to Techne (Cambridge) Ltd. Thermostatically controlled immersion heater assembly. 3,147,-365, 9–1–64, Cl. 219—331.
De Buhr, Edward, and J. F. Pfeffer, Jr., to E. I. du Pont de Nemours and Co. Electrode mounting arrangement for electrical discharge treatment of plastic film. 3,142,753, 7–28–64, Cl. 250—49.5.
De Buhr, Harold E., to Deere & Co. Bale-handling mechanism. 3,127,976, 4–7–64, Cl. 198—128.
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De Buhr, Harold E., to Deere & Co. Bale thrower. 3,155,-223, 11–3–64, Cl. 198—128.
De Buigne, Carl, to United States of America, Atomic Energy Commission. Extrusion cladding press and method. 3,137,389, 6–16–64, Cl. 207—41.
De Buigne, Frank. Method and apparatus for coordinating measuring operations. 3,149,722, 9–22–64, Cl. 209—75.
De Bussy, Jacques M. Y. L., to Verreries Pochet et du Courval. Electric glassmaking furnace. 3,147,328, 9–1–64, Cl. 13—6.
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De Cat, Arthur H., R. K. Van Poucke, and M. H. Verbrugghe, to Gevaert Photo-Producten N.V. Method of preparing non-migratory color couplers for yellow. 3,138,604, 6–23–64, Cl. 260—294.8.
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Brinkmeyer, Francis M., and Creighton. 3,143,814.
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Cox, Robert E. 3,131,773.
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De Falco, Angelo A., to Falcon Electronics Corp. Thermal time delay relay with relatively flexible control member. 3,156,802, 11–10–64, Cl. 200—122.
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De Faro, Luiz F., to Faroscope Mfg. Co. Photocopy unit. 3,130,636, 4–28–64, Cl. 88—24.
De Faymoreau, Etienne C. L., and M. Mandel, to International Telephone and Telegraph Corp. Electronic switching device. 3,124,800, 3–10–64, Cl. 343—106.
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De Feen, Michael A. Exercising apparatus comprising an elongate base having stationary and longitudinally movable support units at the ends thereof. 3,130,968, 4–28–64, Cl. 272—58.
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De Fligue, Wladimir. Electromagnetic relay having several rigid contacts. 3,158,712, 11–24–64, Cl. 200—87.
De Ford, Donald D., to Phillips Petroleum Co. Chromatographic analysis method. 3,159,019, 12–1–64, Cl. 73—23.
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De Fries, Myron G., and J. N. Godfrey, to Atlantic Research Corp. Process for making a fibrous cellulose and/or nitrocellulose product. 3,139,355, 6–30–64, Cl. 117—155.
De Fries, Myron G., and A. V. Rice, to Atlantic Research Corp. Solid propellent grains. 3,144,830, 8–18–64, Cl. 102—98.
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De Fries, Paul J., to General Electric Co. Bistable transistor circuit with ferroelectric memory element. 3,155,833, 11–3–64, Cl. 307—88.
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Dega, Robert L., and E. F. Bundshuh, to General Motors Corp. Spring detection device. 3,128,880, 4–14–64, Cl. 209—111.5.

De Gain, William J., to Koppy Tool and Die Co. Method of securing coil ends. 3,130,490, 4–28–64, Cl. 29—432.
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Deghenghi, Romano, to American Home Products Corp. 17α-methyl steroids and process to make same. 3,133,913, 5–19–64, Cl. 260—239.55.
De Gier, Nico A., to North American Philips Co., Inc. Disc-shaped electric impedance element. 3,117,297, 1–7–64, Cl. 338—19.
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Degnen, William J., to Pullman Inc. Deaeration of washer filtrate. 3,154,465, 10–27–64, Cl. 162—29.
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De Gorter, Daniel. Method for breaking glass. 3,116,862, 1–7–64, Cl. 225—2.
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De Graffenried, Albert L., to Avien, Inc. Electroluminescent indicating device. 3,153,739, 10–20–64, Cl. 313—108.
De Gray, Richard J., and L. N. Killian, to The Standard Oil Co. Glycol borate amine salts as gasoline additives. 3,133,-800, 5–19–64, Cl. 44—69.
De Gray, Richard J., and W. O. Fitzgibbons, to The Standard Oil Co. Boron compounds and compositions containing the same. 3,155,465, 11–3–64, Cl. 44—63.
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De Groff, Morton S., to The Aro Corp. Surgical turbine. 3,128,079, 4–7–64, Cl. 253—3.
De Groft, Walter J., to Sanford Research Co. Cap device for ball-type fluid dispenser. 3,137,886, 6–23–64, Cl. 15—572.
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De Groote, Melvin, and O. H. Pettingill, to Petrolite Corp. Oxyalkylated tris(hydroxymethyl)aminomethanes. 3,121,-750, 2–18–64, Cl. 260—584.
De Groote, Melvin, and K.-T. Shen, to Petrolite Corp. Fuel composition containing methylol phenol derivatives. 3,127,-251, 3–31–64, Cl. 44—66.
De Groote, Melvin, and K.-T. Shen, to Petrolite Corp. Drilling fluids containing methylol phenol derivatives. 3,127,-344, 3–31–64, Cl. 252—8.5.
De Groote, Melvin, and K.-T. Shen, to Petrolite Corp. Treatment of oil wells and oil well equipment employing methylol phenol derivatives. 3,127,345, 3–31–64, Cl. 252—8.55.
De Groote, Melvin, and K.-T. Shen, to Petrolite Corp. Process for inhibiting foam employing methylol phenol derivatives. 3,127,354, 3–31–64, Cl. 252—321.
De Groote, Melvin, and K.-T. Shen, to Petrolite Corp. Prevention or corrosion. 3,127,355, 3–31–64, Cl. 252—392.
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Delacretaz, Richard E., S. P. Nemphos, and R. L. Walter, to Monsanto Co. Molecular weight regulation in polymerization of vinylidene monomers using linalool as regulator. 3,160,613, 12–8–64, Cl. 260—85.5.
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Del Giudice, Frank P., to Metal Hydrides Inc. Method for preparing metal aluminum hydrides. 3,158,437, 11–24–64, Cl. 23—14.
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De Lillo, Joseph. Sheathing system. 3,159,978, 12–8–64, Cl. 61—41.
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De Long, Herbert K., and D. E. Ritzema, to The Dow Chemical Co. Chemical milling of magnesium metal and magnesium alloys. 3,134,702, 5–26–64, Cl. 156—18.
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De Luca, Noel, 30% to W. J. Ruano. Apparatus for applying vacuum and super-sonic vibrations in casting steels. 3,162,908, 12–29–64, Cl. 22—73.
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De Luca, Peter L., to Hawley Products Co. Molded pallet. 3,140,672, 7–14–64, Cl. 108—53.
De Luca, Wallace V., ½ to W. Kurasch and ½ to United Research & Development Corp. Variable power fluid means. 3,161,718, 12–15–64, Cl. 88—57.
De Lucca, Philip R. Dispenser. 3,159,314, 12–1–64, Cl. 222—183.
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De Magondeaux, Leo, 50% to K. Rath. Passive radio repeater transmission system. 3,117,277, 1–7–64, Cl. 325—6.
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Demaison, Raymond J., to Quigley Co., Inc. Block wall structure for furnaces. 3,158,963, 12–1–64, Cl. 50—373.
De Makay, Nicolas. Powder forming apparatus. 3,143,918, 8–11–64, Cl. 86—1.
DeMalde, Marcello, E. Perrotti, N. Marilli, and F. Fognani, to Laboratori Riunito Studi e Ricerche S.p.A. Process for the production of esters of tertiary alcohols. 3,117,137, 1–7–64, Cl. 260—347.5.
De Mallie, Howard R., and J. F. Worden, to Eastman Kodak Co. Sheet packaging machine. 3,120,726, 2–11–64, Cl. 53—28.
De Man, Heiko T., to Dymo Industries, Inc. Apparatus and method for cutting tapes and removing the liner therefrom. 3,133,495, 5–19–64, Cl. 101—32.
Deman, Pierre. Frequency and time allocation multiplex system. 3,163,718, 12–29–64, Cl. 179—15.
Demant, Walter, and E. Hildinger, to Siemens & Halske Aktiengesellschaft. Teleprinter apparatus. 3,139,483, 6–30–64, Cl. 178—4.
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DeMarre, John M. Fastener. 3,126,600, 3–31–64, Cl. 24—87.
DeMarre, John M. Fastener. 3,126,601, 3–31–64, Cl. 24—87.
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De Mart, Le Roy S., to Diamond Power Specialty Corp. Stud tensioner. 3,123,339, 3–3–64, Cl. 254—29.
De Mart, Le Roy S., to Diamond Power Specialty Corp. Soot blower construction. 3,140,503, 7–14–64, Cl. 15—317.
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Dembo, Gerald. Carton. 3,128,031, 4–7–64, Cl. 229—7.
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Demeaux, Jean A., to Ateliers & Forges de la Loire (Saint-Chamond, Firminy, Saint-Etienne, Jacob Holtzer), Compagnie des. Method for improving the magnetic properties of silicon steel. 3,142,591, 7–28–64, Cl. 148—3.
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De Mestral, George, to Velcro S.A. Method for producing a device for joining two flexible elements. 3,136,026, 6–9–64, Cl. 28—72.
De Mestral, George, to Velcro S.A. Apparatus for treating terry or uncut pile fabric. 3,137,054, 6–16–64, Cl. 26—28.
De Mestral, George, to International Velcro Co., Estab. Method for the manufacture of pile fabrics. 3,154,837, 11–3–64, Cl. 28—72.
Demeter, József, to Techniompex Magyar Gepipari Kulkereskedelmi Vallalat. Apparatus for continuously producing sheets of thermosetting artificial resins. 3,158,899, 12–1–64, Cl. 18—12.
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De Metrick, John S., to Automatic Radio Mfg. Co., Inc. Tuner inductor having ridged strip terminal lead adapted for connection to printed circuit. 3,147,453, 9–1–64, Cl. 334—74.
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Demole, Edouard, and E. Lederer, to Firmenich & Cie. Allcyclic ketoesters and process for their manufacture. 3,158,-644, 11–24–64 Cl. 260—468.
De Mong, Maurice D., to United States of America, Navy. High stability pulse signal amplifier with inverse feedback. 3,160,820, 12–8–64, Cl. 328—120.
De Monte, Robert W., to Bell Telephone Laboratories, Inc. Impedance-simulating network. 3,135,930, 6–2–64, Cl. 333—23.
De Monterey, Francis G. A., to General Electric Co. Fluidizable catalysts containing monoorganosiloxane units and oxy-containing units derived from aluminum, boron, and tin. 3,153,006, 10–13–64, Cl. 260—46.5.
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De Motte, Frank E., to Bell Telephone Laboratories, Inc. Plural random phase, series-connected A.C. sources. 3,139,530, 6–30–64, Cl. 307—75.
De Moude, Adrian J. Relatively rotatable face seal with flexible backing member. 3,125,347, 3–17–64, Cl. 277—92.
De Moulliac, Guy V., to Societe Generale "Isothermos," Societe Anonyme. Device for reconditioning the flanged tires of wheels of railway rolling stock. 3,148,910, 9–15–64, Cl. 295—1.
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Dempsey, John P. Concrete comprising lead matte and calcium aluminate cement. 3,122,513, 2–25–64, Cl. 252—478.
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French, Henry C., and Wender. 3,145,009.
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Dempster, George R., and W. A. Herpich; said Herpich assor. to Dempster Bros., Inc. Front end loader. 3,138,275, 6–23–64, Cl. 214—302.

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Demrick, Carl J., to Avis Industrial Corp. Wheel cover. 3,145,060, 8–18–64, Cl. 301—37.
Demrick, Carl J., to Avis Industrial Corp. Wheel cover. 3,145,061, 8–18–64, Cl. 301—37.
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De Neergaard, Leif E., deceased, to F. W. Olmstead, H. W. Trechsel, D. A. Gerard, J. J. Kojis, N. S. Parker, M. S. Bradway, and said De Neergaard, trustees; The Northern Trust Co., executor. Static pickup head. 3,127,592, 3–31–64, Cl. 340—174.1.
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Denison, James W., Jr., to General Electric Co. Bonding means and method. 3,123,470, 3–3–64, Cl. 75—201.
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Dennett, John, and R. E. Ashcroft, to Pilkington Brothers Ltd. Multiple glazed window units. 3,131,047, 4–28–64, Cl. 65—152.
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Detrez, Rene. Driving cylinders actuated by fluid under pressure. 3,158,072, 11–24–64, Cl. 92—168.
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Dettinger, Willi, to Pumpenfabrik Urach. Hydraulically operated unit, particularly for elevating platforms and lifts. 3,126,706, 3–31–64, Cl. 60—52.
Dettling, Conrad J., and C. W. Dames, Jr., to Polymer Processes, Inc. Apparatus for coating interior of hollow body. 3,138,483, 6–23–64, Cl. 118—408.
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Dettre, Robert H., to E. I. du Pont de Nemours and Co. Process for increasing the scratch resistance of glass. 3,161,534, 12–15–64, Cl. 117—69.
Dettre, Robert H., to E. I. du Pont de Nemours and Co. Process for increasing the scratch resistance of glass. 3,161,535, 12–15–64, Cl. 117—69.
Dettre, Robert H., and J. A. Nelson, to E. I. du Pont de Nemours and Co. Process for increasing the scratch resistance of glass. 3,161,531, 12–15–64, Cl. 117—62.
Dettre, Robert H., and J. A. Nelson, to E. I. du Pont de Nemours and Co. Process for increasing the scratch resistance of glass. 3,161,536, 12–15–64, Cl. 117—69.
Dettre, Robert H., and J. A. Nelson, to E. I. du Pont de Nemours and Co. Process for increasing the scratch resistance of glass. 3,161,537, 12–15–64, Cl. 117—69.
Detweiler, William K., W. E. Lifson, and F. L. Jonach, to Esso Research and Engineering Co. Calcium mixed-salt lubricant stabilized against water contamination. 3,125,521, 3–17–64, Cl. 252—32.7.
Deuschel, Werner, B. Honigmann, W. Jettmar, and H. Schroeder, to Badische Anilin-& Soda-Fabrik Aktiengesellschaft. Process for preparing 2.9-dichloro-quinacridone. 3,157,659, 11–17–64, Cl. 260—279.
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D'Eustachio, Louis. Impact type stator-stripping tool. 3,146,520, 9–1–64, Cl. 29—205.
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Deutsch, Alexander T. Automatic steering of space craft. 3,145,531, 8–25–64, Cl. 60—35.54.
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Deutsch, Hans W., and D. M. Price, to Scully-Jones and Co. Ball screw mechanism. 3,161,073, 12–15–64, Cl. 74—424.8.
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De Valliere, Pierre F. Screw-type controls, particularly in machine-tool applications. 3,150,535, 9–29–64, Cl. 74—424.8.
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De Vay, James E. Antibiotic produced by pseudomonas syringae. 3,155,585, 11–3–64, Cl. 167—65.
Develet, Jean A., Jr., to Bunker-Ramo Corp. Controlled blocking oscillator having equal "on" and "off" periods. 3,137,819, 6–16–64, Cl. 328—63.
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Devine, James H. and E. Y. 3,160,055.
Devine, Francis P., to Avco Corp. Motion transmitting means. 3,124,966, 3–17–64, Cl. 74—136.
Devine, James H. and E. Y.; said J. H. Devine, assor. to D-Y Trust. Tool for locking, unlocking and extracting an expandable blind bolt. 3,139,675, 7–7–64, Cl. 29—240.
Devine, James H. and E. Y.; said J. H. Devine assor. to D-Y Trust. Ratchet-like fastener with multi-part nut and centering sleeve. 3,160,053, 12–8–64, Cl. 85—1.
Devine, James H. and E. Y.; said J. H. Devine assor. to Triple-Lok Trust. Triple locking blind bolt. 3,160,055, 12–8–64, Cl. 85—87.
Devine, Patrick J., to Potter Electric Signal Co. Signalling apparatus. 3,149,320, 9–15–64, Cl. 340—261.
Devine, Thomas J. Lock protectors. 3,154,343, 10–27–64, Cl. 292—346.
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Masters, John E. 3,150,116.
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De Vries, Adrian J., to Zenith Radio Corp. Frequency modulation receiver. 3,129,288, 4–14–64, Cl. 179—15.

De Vries, Adrian J., to Zenith Radio Corp. Stereo FM transmission system. 3,133,993, 5–19–64, Cl. 179—15.

De Vries, Adrian J., to Zenith Radio Corp. A.M. stereo system. 3,143,600, 8–4–64, Cl. 179—15.

De Vries, Douwe, to Shell Oil Co. Stabilizing system for floating platform. 3,160,135, 12–8–64, Cl. 114—125.

De Vries, Douwe, and R. L. Geer, to Shell Oil Co. Marine conductor and pipe support for drilling underwater wells. 3,163,239, 12–29–64, Cl. 175—7.

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De Vries, Harmen, J. P. Schuhmacher, and J. C. Soeterbroek, to Stamicarbon N.V. Polymerization catalyst. 3,135,702, 6–2–64, Cl. 252—429.

De Vries, Johan L., to North American Philips Co., Inc. X-ray analysis apparatus comprising a fixed detector means and plural interchangeable analyzing crystals. 3,160,747, 12–8–64, Cl. 250—51.5.

De Vries, Louis: *See*—
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De Vries, Louis, to California Research Corp. Alkenols. 3,121,752, 2–18–64, Cl. 260—617.

De Vries, Louis, to California Research Corp. New polyalkylcyclopentadienes. 3,131,227, 4–28–64, Cl. 260—666.

De Vries, Louis, and J. R. Thomas, to California Research Corp. Poly-gamma-esters of optically active glutamic acid. 3,119,794, 1–28–64, Cl. 260—78.

De Vries, Louis, and R. E. Lyle, to California Research Corp. Copolymer of a straight chain olefin and a styrene. 3,157,-624, 11–17–64, Cl. 260—88.2.

De Vries, Machiel, to Ronette Piezo Electrische Industrie, N.V. Stereophonic pick-up. 3,136,554, 6–9–64, Cl. 274—37.

De Vries, Machiel, to Ronette Piezo Electrische Industrie, N.V. Stereophonic pick-up. 3,136,555, 6–9–64, Cl. 274—37.

De Vries, Marcus, to Leeuwarder Papierwarenfabriek, N.V. Packaging material. 3,123,281, 3–3–64, Cl. 229—87.

De Vries, William H., to The Upjohn Co. Method for crystallizing monosodium novobiocin. 3,129,214, 4–14–64, Cl. 260—210.

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Dew, John N., J. D. Alexander, and W. L. Martin, to Continental Oil Co. Combination in situ combustion-aqueous medium drive oil recovery method. 3,153,448, 10–20–64, Cl. 166—2.

Dew, Roy J. Current responsive circuit breaker. 3,141,941, 7–21–64, Cl. 200—116.

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De Wald, Horace A., to Parke, Davis & Co. Trifluoroacetamide and methanesulfonamide compounds. 3,156,694, 11–10–64, Cl. 260—294.8.

De Wald, Horace A., to Parke, Davis and Co. Enolic ethers and esters. 3,157,664, 11–17–64, Cl. 260—295.

De Wald, Horace A., and R. D. Westland, to Parke, Davis & Co. 2-[α-(ortho substituted benzimidoyl)benzyl] pyridine compounds. 3,156,698, 11–10–64, Cl. 260—296.

De Wald, Horace A., R. D. Westland, and J. R. Dice, to Parke, Davis and Co. α-Phenyl-8-(2-pyridyl)-arylones. 3,157,666, 11–17–64, Cl. 260—297.

Dewan, John T., to Schlumberger Well Surveying Corp. Semiconductor junction device for monitoring radio-activity in a well logging sonde. 3,158,743, 11–24–64, Cl. 250—83.3.

Dewar, Douglas, to Dunlop Rubber Co. Ltd. Hydraulically operated windscreen wipers. 3,150,489, 9–29–64, Cl. 60—52.

Dewar, Douglas, F. R. Mortimer, and G. P. R. Farr, to Dunlop Rubber Co. Ltd. Aircraft braking system. 3,129,903, 4–21–64, Cl. 244—111.

Dewas, Raymond. Needle for weaving machines of the continuous weft-feed type. 3,144,051, 8–11–64, Cl. 139—123.

Dewas, Raymond. Device for controlling the weft in continuous-feed weaving machines. 3,158,182, 11–24–64, Cl. 139—370.

Dewees, Vincent E., and G. A. Ferris, to Kenman Mfg. Co. Dispensing device with replaceable cartridge. 3,121,516, 2–18–64, Cl. 222—326.

Dewelle, Claude H. A. Process and apparatus for the manufacture of paper yarn and the like. 3,145,524, 8–25–64, Cl. 57—58.49.

Dewey, Davis R., II. System for continuously monitoring the radioactivity of fluids. 3,117,842, 1–14–64, Cl. 23—253.

Dewey, Davis R., II, and L. Kojito, to Baird-Atomic, Inc. Heating devices. 3,146,340, 8–25–64, Cl. 219—520.

Dewey, John L., and R. C. Simon, to The Dow Chemical Co. Method of reinforcing green sand cores and molds with foam polymer coated metal elements. 3,126,595, 3–31–64, Cl. 22—194.

Dewez, Fernand J., Jr., to United States Steel Corp. Method of heat-treating railroad wheels. 3,154,441, 10–27–64, Cl. 148—143.

Dewez, Fernand J., Jr., and J. M. Wandrisco, to United States Steel Corp. Method for heat-treating rails. 3,124,-492, 3–10–64, Cl. 148—130.

De Wijn, Nanning, A. ten Oever, and H. Holewijn, to American Enka Corp. Viscose dissolver. 3,141,656, 7–21–64, Cl. 259—95.

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Kersten, Victor G., and De Winter. 3,142,689.

De Witt, Clarence N. Portable foldable building structure. 3,139,958, 7–7–64, Cl. 189—2.

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Shapiro, Hymin, De Witt, and Brown. 3,130,017.
Shapiro, Hymin, De Witt, and Brown. 3,152,157.

De Witt, Henry C., to United States of America, Navy. Drive means for sectors of step twist rotary joint. 3,138,-769, 6–23–64, Cl. 333—98.

De Witt, Hobson D., to Monsanto Chemical Co. Polymers from dialdehydes and dihydrazides. 3,124,559, 3–10–64, Cl. 260—72.

De Witt, Hobson D., to Monsanto Chemical Co. Polyhydrazides containing phosphorus. 3,124,560, 3–10–64, Cl. 260—78.

De Witt, Hobson D., to Monsanto Co. Linear polymers containing phosphorus. 3,153,016, 10–13–64, Cl. 260—78.

De Witt, Raymond H., to The Fate-Root-Heath Co. Skate sharpener. 3,118,256, 1–21–64, Cl. 51—96.

De Witte Corp., The: *See*—
Gierczak, Joseph R., Sr. 3,122,085.

De Witte, John T., to General Motors Corp. Defrosting with circulating air. 3,126,716, 3–31–64, Cl. 62—156.

De Wolf, George L., and R. Williams, to General Electric Co. Magnetic oscillator controlled motor. 3,161,813, 12–15–64, Cl. 318—138.

De Woody, Charles M., to Ace Glass Inc. Self-acting bearing assembly. 3,138,413, 6–23–64, Cl. 308—121.

De Woskin, Irvin S., to Beltx Corp. Packaging. 3,139,712, 7–7–64, Cl. 53—33.

De Woskin, Irvin S., to Beltx Corp. Fastening device. 3,157,-928, 11–24–64, Cl. 24—150.

De Wouters d'Oplinter, Jean G. M. J., to La Spirotechnique. Photographic apparatus. 3,116,672, 1–7–64, Cl. 95—64.

De Wouters d'Oplinter, Jean G. M. J., to La Spirotechnique. Photographic camera with focal-plane shutter. 3,135,183, 6–2–64, Cl. 95—31.

De Wouters d'Oplinter, Jean G. M. J., to La Spirotechnique. Water-tight photographic camera. 3,162,106, 12–22–64, Cl. 95—11.

Dewyer, Peter J., to Nydar Research and Mfg., Inc. Patching press. 3,154,009, 10–27–64, Cl. 100—214.

Dexheimer, Hans, O. Fuchs, M. Lederer, and W. Schmieder, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Brüning. Process for the manufacture of partially saponified polyvinyl esters. 3,156,678, 11–10–64, Cl. 260—89.1.

Dexter, C. H., & Sons, Inc.: *See*—
Bodendorf, Warren J., and Osborne. 3,149,023.
Osborne, Fay H., and Bodendorf. 3,145,717.

Dexter, Fred A. Patch panel. 3,129,045, 4–14–64, Cl. 339—18.

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Dexter, Martin: *See*—
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Meier, Eric A., and Dexter. 3,121,732.

Dexter, Martin, to Geigy Chemical Corp. Metal salts and chelates of cyclohexyl or cyclopentyl triamino penta-acetic acids. 3,150,160, 9–22–64, Cl. 260—439.

Dexter, Martin, and M. Knell, to Geigy Chemical Corp. Substituted nitrile stabilizers. 3,139,451, 6–30–64, Cl. 260—465.

Dexter, Martin, M. Knell, and E. A. Roskin, to Geigy Chemical Corp. 1,4-phenylene-bis[2-oxy-4,6-bis(alkylthio)-5-]triazines. 3,156,689, 11–10–64, Cl. 260—248.

Dexter, Martin, M. Knell, and E. A. Roskin, to Geigy Chemical Corp. 6(N-acyl-alkylhydroxyanilino)-2,4-bis-(alkylthio)-1, 3,5-triazines. 3,156,690, 11–10–64, Cl. 260—249.5.

Dexter, Robert J. Mounting arrangement for paper supply roll. 3,134,554, 5–26–64, Cl. 242—68.3.

Dexter, Robert J., to Crown Zellerbach Corp. Article collating apparatus. 3,135,175, 6–2–64, Cl. 93—93.

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Deydier, Pierre L. Thermostatic mixer. 3,131,862, 5–5–64, Cl. 236—12.

Deyerling, Gerard P., and M. O. Lindley, to The Bendix Corp. Hydraulic actuator and wheel mounting for disc type brake. 3,156,321, 11–10–64, Cl. 188—18.

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De Young, Edwin L., to Standard Oil Co. Mineral lubricating oils containing tris-alkyl-pyridine molybdenum tricarbonyl compounds. 3,118,840, 1–21–64, Cl. 252—33.4.

De Young, Edwin L., and R. W. Watson, to Standard Oil Co. Composition of matter having anti-rust properties. 3,117,089, 1–7–64, Cl. 252—46.7.
De Young, Edwin L., and R. W. Watson, to Standard Oil Co. Compositions of matter having anti-rust properties. 3,121,059, 2–11–64, Cl. 252—42.7.
De Young, Edwin L., and A. R. Sabol, to Standard Oil Co. Lubricating oils containing boron monothiophosphate. 3,150,094, 9–22–64, Cl. 252—46.7.
Deysher, James B.: *See*—
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Deysher, James B., and P. E. Slavin, to Sperry Rand Corp. Control circuit. 3,122,646, 2–25–64, Cl. 307—88.5.
Deziel, Fred T., to Honeywell Inc. Flame detecting apparatus with flame simulation test. 3,161,863, 12–15–64, Cl. 340—214.
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De Zubay, Egon A., and E. S. Schmitt, Jr., to Atlantic Research Corp. Method for determining settling in dispersions. 3,159,999, 12–8–64, Cl. 73—53.
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Diassi, Patrick A., to Olin Mathieson Chemical Corp. Acetals and ketals of 12α-dihydroxyprogesterone and 1-dehydro-12α, 17α-dihydroxyprogesterone. 3,141,017, 7–14–64, Cl. 260—239.55.
Diassi, Patrick A., to Olin Mathieson Chemical Corp. 16α, 17α-acetal and ketal derivatives of the pregnane series. 3,147,252, 9–1–64, Cl. 260—239.55.
Diaz, Benny, to Sperry Rand Corp. Tape connector. 3,121,931, 2–25–64, Cl. 24—225.
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Dick, Peter. Vacuated body fluid collection vial. 3,162,195, 12–22–64, Cl. 128—276.
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Dicken, Howard E. Loading apparatus for rimmed primer cap. 3,153,977, 10–27–64, Cl. 86—38.

Dickens, George C., to Otis Engineering Corp. Well tools. 3,126,908, 3–31–64, Cl. 137—460.

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Dickerman, Hubert E. Timepiece regulator. 3,120,097, 2–24–64, Cl. 58—112.

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Dickey, Donald K., and G. Smith, to General Motors Corp. Railway vehicle suspension. 3,151,575, 10–6–64, Cl. 105—453.

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Dickey, Frank R., Jr., to General Electric Co. Speed measuring system. 3,147,477, 9–1–64, Cl. 343—8.

Dickey, Frank R., Jr., to General Electric Co. Velocity measuring system. 3,157,876, 11–17–64, Cl. 343—8.

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Dickey, Roger L. Work holder or work jig. 3,141,453, 7–21–64, Cl. 125—35.

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Dickinson, Clayton D., and R. Steinitz, to General Telephone and Electronics Laboratories, Inc. Refractory metal base alloys and method of making same. 3,161,949, 12–22–64, Cl. 29—182.5.

Dickinson, Clifford L., Jr., to E. I. du Pont de Nemours and Co. 6-amino-7,8-dicyanopyrrolo [b]-as-triazines and 7-amino-8,9-dicyanopyrrolo [b] [1.2.4]-triazepines and their preparation. 3,121,081, 2–11–64, Cl. 260—240.

Dickinson, Frank R., and G. A. Tuchen, to Bell Telephone Laboratories, Inc. Method and apparatus for launching repeaters of underwater communication cable. 3,136,529, 6–9–64, Cl. 254—134.3.

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Dickinson, Robert C., and R. E. Frink, to Westinghouse Electric Corp. Circuit interrupters having arc extinguishing means. 3,128,359, 4–7–64, Cl. 200—144.

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Dickinson, Ronald S., to Armstrong Patents Co. Ltd. Hydraulic dampers. 3,152,666, 10–13–64, Cl. 188—93.

Dickinson, Ronald S., to Armstrong Patents Co. Ltd. Vehicle suspensions. 3,160,406, 12–8–64, Cl. 267—8.

Dickinson, Ronald S., and A. R. A. Day, to Armstrong Patents Co. Ltd. Adjustable hydraulic shock absorbers. 3,152,665, 10–13–64, Cl. 188—88.

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Dickison, Earl B., to Western Electric Co., Inc. Apparatus for forming rings from flexible tubing. 3,121,655, 2–18–64, Cl. 156—503.

Dickison, Earl B., W. C. Graves, K. R. Lagler, and R. E. Purdy, to Western Electric Co., Inc. Article gauging and sorting apparatus. 3,120,307, 2–4–64, Cl. 209—88.

Dickman, Matthew C. Automatic answering, recording and reproducing machine. 3,133,992, 5–19–64, Cl. 179—6.

Dickore, Karlfried, K. Sasse, and R. Wegler, to Farbenfabriken Bayer Aktiengesellschaft. Derivatives of dimercapto pyrazines. 3,150,134, 9–22–64, Cl. 260—250.

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Dickson, Donald C., Jr., to Hoffman Electronics Corp. Voltage reference device and process for making the same. 3,156,861, 11–10–64, Cl. 323—66.

Dickson, Francis A., and P. T. Stainforth, to Imperial Chemical Industries Ltd. Transportable container. 3,162,330, 12–22–64, Cl. 222—183.

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Dickson, John B., to Signal-Stat Corp. Shock absorbing mountings for vehicle lamp components. 3,145,933, 8–25–64, Cl. 240—8.2.

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Di Costanzo, Pasquale F. Window washing device. 3,120,-672, 2–11–64, Cl. 15—250.01.

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Di Curcio, Robert A., and W. F. Stillwell, Jr., to United Aircraft Corp. Method for nondestructive testing by using a defocussed electron beam. 3,162,767, 12–22–64, Cl. 250—49.5.

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Didde, Carl W., D. A. Glaser, and H. E. Higgins, Jr., to Didde-Glaser, Inc. Self-valving sucker assembly. 3,122,-391, 2–25–64, Cl. 294—64.

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Diebold, Edward J., to International Rectifier Corp. High voltage, high power rectifier system. 3,121,835, 2–18–64, Cl. 321—15.

Diebold, Edward J., to International Rectifier Corp. Seal for semiconductor rectifier. 3,144,501, 8–11–64, Cl. 174—52.

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Dieckamp, Herman M.: *See*—
Brinkman, John A., Meechan, and Dieckamp. 3,142,539.

Dieckamp, Herman M., to North American Aviation, Inc. Liquid level indicator. 3,163,843, 12–29–64, Cl. 340—1.

Dieckelmann, Gerhard, to Dehydag, Deutsche Hydrierwerke G.m.b.H. Process for the production of high-molecular compounds containing epoxide groups. 3,120,547, 2–4–64, Cl. 260—348.5.
Dieckmann, James R. Continuous vulcanization of sheeted rubber. 3,121,912, 2–25–64, Cl. 18—6.
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Diefendorf, Russell J., to General Electric Co. Deposition apparatus and method for forming a pyrolytic graphite article. 3,138,435, 6–23–64, Cl. 23—209.1.
Diefendorf, Russell J., and R. M. Williams, to General Electric Co. Method for depositing carbon coatings on high temperature material members. 3,120,450, 2–4–64, Cl. 117—46.
Diegel, Arthur. Stamping device. 3,160,090, 12–8–64, Cl. 101—18.
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Diehl, Francis L., to The Procter & Gamble Co. Detergency composition. 3,159,581, 12–1–64, Cl. 252—152.
Diehl, John E., to Stackpole Carbon Co. Brush holder with split brush. 3,158,773, 11–24–64, Cl. 310—246.
Diehl, John H., W. D. Weikart, and R. F. Nenstiel, to Rockwell Mfg. Co. Band saws. 3,128,661, 4–14–64, Cl. 83—201.
Diehl, John H., E. C. Warrick, and D. D. Pettigrew, to Rockwell Mfg. Co. Power tool and transmission therefor. 3,146,628, 9–1–64, Cl. 74—230.17.
Diehl, Karl L., to Colorado Oil and Gas Corp. Gauge drive system. 3,127,771, 4–7–64, Cl. 73—345.
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Dieman, Edgar A., to Standard Oil Co. System for accelerated condensation corrosion. 3,131,029, 4–28–64, Cl. 23—253.
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Diemer, Gesinus, H. J. M. Joormann, J. G. Van Santen, and P. A. Boter, to North American Philips Co. Inc. Display device having a photo-sensitive layer and an electro-luminescent layer associated with one another. 3,117,232, 1–7–64, Cl. 250—213.
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Diener, Robert E., and N. P. Darash, to The Warner & Swasey Co. Transmission disconnect devices. 3,120,133, 2–4–64, Cl. 74—411.
Dier, Stephen A., to Thompson Ramo Wooldridge, Inc. Method and apparatus for machining a spherical surface. 3,142,117, 7–28–64, Cl. 29—566.
Dierks, Fred B. Hook and eye engager. 3,161,332, 12–15–64, Cl. 223—111.
Dierks, Gustave C. Modular ribbon-type gas burner. 3,142,331, 7–28–64, Cl. 158—99.
Diesel, Hermann, to Rapp & Seidt Maschinenbau. Process and apparatus for breaking and teasing compressed fibrous material. 3,139,650, 7–7–64, Cl. 19—145.5.
Dietch, Leonard, to Admiral Corp. Single diode FM stereo multiplex detector. 3,154,641, 10–27–64, Cl. 179—15.
Dieter, Julian A., to R. A. Jones & Co., Inc. Article timing mechanism for packaging machines. 3,162,294, 12–22–64, Cl. 198—34.
Dieter, Norman H., Jr., to Sonotone Corp. Sound record transducing devices for stereophonic and like records. Re. 25,597, 6–16–64, Cl. 179—100.41.
Dieterich, Richard E., and F. A. Werstein, to Phillips Drill Co. Drive-in concrete fastener or the like. 3,122,049, 2–25–64, Cl. 85—2.4.
Dietert, Harry W., Co.: *See*—
Dietert, Harry W. 3,140,751.
Dietert, Harry W. 3,143,777.
Dietert, Harry W. 3,151,368.
Dietert, Harry W. 3,154,824.
Dietert, Harry W. 3,156,112.
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Dietert, Harry W., and Jones. 3,141,515.
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Dietert, Randolph L. 3,161,927.
Dietert, Harry W., to Harry W. Dietert Co. Beam balance. 3,140,751, 7–14–64, Cl. 177—247.
Dietert, Harry W., to Harry W. Dietert Co. Moldability controller. 3,143,777, 8–11–64, Cl. 22—89.
Dietert, Harry W., to H. W. Dietert Co. Rotary screen moldability controller. 3,151,368, 10–6–64, Cl. 22—89.
Dietert, Harry W., to Harry W. Dietert Co. Moldability controller. 3,154,824, 11–3–64, Cl. 22—89.
Dietert, Harry W., to Harry W. Dietert Co. Apparatus for measuring mold wall movement or creep. 3,156,112, 11–10–64, Cl. 73—83.
Dietert, Harry W., A. L. Graham, and R. E. Steinmueller, to Harry W. Dietert Co. Moldability measuring and controlling apparatus and method. 3,136,009, 6–9–64, Cl. 22—89.
Dietert, Harry W., R. L. Dietert, A. L. Graham, R. E. Steinmueller, and H. L. Jameson, to Harry W. Dietert Co. Method and apparatus for testing and controlling moldability of granular material. 3,136,010, 6–9–64, Cl. 22—89.
Dietert, Harry W., R. E. Steinmueller, and R. L. Dietert, to Harry W. Dietert Co. Pivoted pressure release valve for use with a permeability meter. 3,140,724, 7–14–64, Cl. 137—527.6.
Dietert, Harry W., and A. M. Jones, to Harry W. Dietert Co. Automatic weighing device. 3,141,515, 7–21–64, Cl. 177—116.
Dietert, Randolph L.: *See*—
Dietert, Harry W and R. L., Graham, Steinmueller, and Jameson. 3,136,010.
Dietert, Harry W., Steinmueller, and R. L. Dietert. 3,140,724.
Dietert, Randolph L., to Harry W. Dietert Co. Pivoting probe structure for electrically sensing the moisture content of a moving granular material. 3,141,129, 7–14–64, Cl. 324—65.
Dietert, Randolph L., to Harry W. Dietert Co. Method and apparatus for taking a measurement of compensated moisture content of granular material. 3,161,927, 12–22–64, Cl. 22—89.
Dietlein, Robert W., to Components Engineering and Mfg. Co., Inc. Ring-locked fastener. 3,124,189, 3–10–64, Cl. 151—41.73.
Dietrich, Bernhard, to Clevite Corp. Voltage divider. 3,162,802, 12–22–64, Cl. 323—79.
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Yeager, Ernest B., Dietrick, and Witherspoon. 3,161,546.
Dietrich, Henri: *See*—
Stoll, Willy, and Dietrich. 3,124,597.
Dietrich, Howard H.: *See*—
Barr, John M., and Dietrich. 3,145,697.
Dietrich, Howard H., to General Motors Corp. Crankcase ventilating system. 3,116,727, 1–7–64, Cl. 123—119.
Dietrich, Joseph J., and H. C. Stevens, to Pittsburgh Plate Glass Co. Method of preparing polycarbonates. 3,160,606, 12–8–64, Cl. 260—47.
Dietrich, Walter, to International Standard Electric Corp. Method for the automatic recognition of characters, in particular writing characters (figures, letters, and the like). 3,136,976, 6–9–64, Cl. 340—146.3.
Dietrich, Werner. Conveyor. 3,147,851, 9–8–64, Cl. 198—198.
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Stapp, Walter B., and Dietsch. 3,144,808.
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Couzens, Reginald. 3,123,315.
Diety, R. E., Co.: *See*—
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Cleminshaw, Douglas R. 3,126,507.
Dietz, Alfred. Wire ropes. 3,131,530, 5–5–64, Cl. 57—149.
Dietz, Alfred. Stranded spiral rope. 3,154,910, 11–3–64, Cl. 57—149.
Dietz, Alma: *See*—
De Boer, Clarence, Dietz, Eble, and Large. 3,160,560.
Dietz, Alma, C. De Boer, C. G. Smith, M. E. Bergy, and H. Hoeksema, to The Upjohn Co. Process for preparing crystalline monosodium novobiocin. 3,118,874, 1–21–64, Cl. 260—210.
Dietz, Daniel N., to Shell Oil Co. Oil recovery by in situ combustion with water injection. 3,150,715, 9–29–64, Cl. 166—2.
Dietz, Erich: *See*—
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Dietz, Erich, G. Semler, and A. Siebert, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Water-insoluble monoazo-dyestuffs. 3,118,870, 1–21–64, Cl. 260—154.

Dietz, Erich, M. Förderreuther, and K. Schilling, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Brüning. Water-insoluble benzimidazolone monoazo-dyestuffs. 3,137,686, 6–16–64, Cl. 260—157.

Dietz, Gerald E., to Penn Controls, Inc. Magnetic operator for valves or the like. 3,133,234, 5–12–64, Cl. 317—165.

Dietz, Herbert J., to Eastman Kodak Co. Method of treating silver nitrate solutions. 3,141,731, 7–21–64, Cl. 23—102.

Dietz, Johannes J. F., to North American Philips Co., Inc. Method of manufacturing bodies consisting of helically wound wire. 3,122,176, 2–25–64, Cl. 140—71.5.

Dietz, John J., to McGraw-Edison Co. Ultraviolet detector discharge tube and thermal relay circuit. 3,142,758, 7–28–64, Cl. 250—83.3.

Dietz, Milton S.: *See*—
Bing, Herbert A., and Dietz. 3,125,937.

Dietz, Raymond A. F.: *See*—
Koenig, John E., Henning, and Dietz. 3,136,469.

Dietz, Thomas J., to Delaware Research & Development Corp. Composition of styrene-butadiene copolymer and polyorganosiloxane. 3,121,069, 2–11–64, Cl. 260—45.5.

Dietz, Tiddo K. Apparatus for treating victuals in a heated liquid bath. 3,152.537, 10–13–64, Cl. 99—404.

Dietz, Wolfgang F., to Radio Corp. of America. Tuning system. 3,130,264, 4–21–64, Cl. 178—5.8.

Dietze, George E. Razor blade sharpener. 3,153,307, 10–20–64, Cl. 51—205.

Dietzel, Walter M., and H. Hillebrand, to Braunschweigische Maschinenbauanstalt A.G. Centrifugal apparatus. 3,151,-072, 9–29–64, Cl. 210—380.

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Huett, George C., Briggs, and Probst. 3,161,770.
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Diez, Donald E., to Union Carbide Corp. Reclosable container. 3.148.823, 9–15–64, Cl. 229—51.

Di Federico, Mario A., to The Firestone Tire & Rubber Co. Spacer for dual rims. 3,143,376, 8–4–64, Cl. 301—13.

Di Ferdiando, Frank: *See*—
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Di Fiore, Joseph J.: *See*—
Herer, Jack. 3,117,759.

Di Fulvio, Anthony P.: *See*—
Elle, Bruce L., Reinhardt, and Di Fulvio. 3,132,528.

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Fanshawe, Hew D., and Digby. 3,158,212.

Diggelmann, Jakob: *See*—
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Diggs, Willis L., to St. Regis Paper Co. Collapsible shipping carton. 3,143,275, 8–4–64, Cl. 229—52.

Digilio, Frank A., to Sperry Rand Corp. Card aligning device. 3,136,540, 6–9–64, Cl. 271—55.

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Steele, Floyd G. 3,123,818.
Steele, Floyd G. 3,147,371.

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Peterson, Norman E., and Courchene. 3,146,438.

Digitronics Corp.: *See*—
Fingerhood, Stanford A. 3,161,779.
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Shaw, Robert F. 3,121,860.

Di Ianni, Elmo J., to Nuclear Corp. of America. Broad range radiation meter circuit. 3,129,333, 4–14–64, Cl. 250—83.6.

Di Iorio, Michael V., P. J. Grunfelder, and L. L. Sevebeck, to Western Electric Co., Inc. Systems and methods for processing data over telephone networks. 3,131,259, 4–28–64, Cl. 179—2.

Dijksman, Albertus P., to Janson Fabrieken N.V. Hydraulic shock absorber. 3,116,814, 1–7–64, Cl. 188—100.

Dijkmans, Maximilian J., L. Magers, Jr., and R. S. Beiner, to Preload Corp. Panel making apparatus. 3,143,306, 8–4–64, Cl. 242—7.

Dijkmeijer, Henricus E., to North American Philips Co. Inc. Method of joining component parts of envelopes for high-power transistors. 3,140,382, 7–7–64, Cl. 219—92.

Dijksterhuis, Popko R.: *See*—
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Dijkstra, Jan, to North American Philips Co., Inc. Transistor amplifier with variable peak clipping and AGC. 3,124,760, 3–10–64, Cl. 330—29.

Dika, Robert J., to General Motors Corp. Internal combustion engine. 3,141,449, 7–21–64, Cl. 123—122.

Di Lazzaro, John F., to Boeing Airplane Co. Graphite base ceramic refractory composition. 3,140,190, 7–7–64, Cl. 106—56.

Dilbey, Geoffrey W., to G. Q. Parachute Co. Ltd. Cable laying apparatus. 3,125,859, 3–24–64, Cl. 61—72.3.

Di Lella, Paul, to E. W. Bliss Co. Grinding machine. 3,118,-254, 1–21–64, Cl. 51—45.

Di Lella, Paul, to E. W. Bliss Co. Grinding machine. 3,128,888, 4–14–64, Cl. 214—1.

Di Lella, Paul, to E. W. Bliss Co. Grinding machine. 3,134,-204, 5–26–64, Cl. 51—134.5.

Di Lella, Paul, to E. W. Bliss Co. Billet loader. 3,134,475, 5–26–64, Cl. 198—20.

Di Lemme, Philip. Lock for storm windows. 3,153,264, 10–20–64, Cl. 20—52.2.

Dilg, Earl W., to M. Isaacson. Mixer. Re. 25,638, 9–8–64, Cl. 60—52.

Dill, Johann G., to Hughes Aircraft Co. Bandpass amplifier circuits utilizing an inductive transistor. 3,119,075, 1–21–64, Cl. 330—31.

Dill, Johann G., to Hughes Aircraft Co. Pulse forming circuit utilizing transistor avalanche characteristics. 3,126,-489, 3–24–64, Cl. 307—88.5.

Dill, Richard R. and M. E. Ginaven, to The Bauer Bros., Co. Impact ring unit for disc mill. 3,118,624, 1–21–64, Cl. 241—251.

Dill, Walter R., and F. N. Harris, to Halliburton Co. Acidizing of wells. 3,142,335, 7–28–64, Cl. 166—9.

Dillaha, Hubert D. Delivery vehicle for keg-contained products. 3.141,537, 7–21–64, Cl. 193—27.

Dillard, Doyle M., and R. A. Berntsen. Sliding door lock. 3,126,727, 3–31–64, Cl. 70—97.

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Knowles, Edwin C., Kay, and Dille. 3,118,745.

Dille, Roger M., R. W. Chapman, and W. L. Slater, to Texaco Inc. Recovery of carbon from water. 3,147,093, 9–1–64, Cl. 48—215.

Dillenburger, Albert, and W. Ley, to Procedo G.m.b.H. Volume compensation devices for hydraulic-pneumatic telescopic shock absorbers. 3,121,479, 2–18–64, Cl. 188—88.

Dillenburger, Albert, and K. Graef, to Stabilus Industrie-und Handelsgesellschaft m.b.H. Telescopic fluid shock absorber having gas cushion means. 3,151,706, 10–6–64, Cl. 188—100.

Diller, Franklyn D.: *See*—
Coddington, John L., and Diller. 3,126,475.

Diller, Gerald J., D. H. Nelson, and E. R. Tribken, to Sperry Rand Corp. Manually controlled servo system. 3,156,438, 11–10–64, Cl. 244—83.

Dillies, Pierre: *See*—
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Dilliner, Herman L. Pump. 3,126,830, 3–31–64, Cl. 103—68.

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Cooper, Donald E., and Dilling. 3,146,289.

Dilling, Marion R.: *See*—
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Dillingham, Theodore L., and J. R. Rinehart. Air conditioning system and ventilator therefor. 3,158,082, 11–24–64, Cl. 98—33.

Dillon, Eugene F., to General Electric Co. Electric water heating apparatus. 3,126,470, 3–24–64, Cl. 219—38.

Dillon, Oscar W., and R. J. Spooner, to Vocaline Co. of America, Inc. Drive mechanism. 3,125,890, 3–24–64, Cl. 74—125.5.

Dillon, Paul W., and C. G. Robinson, to Northwestern Steel and Wire Co. Method and means for equalizing the heat balance within an electric furnace. 3,136,835, 6–9–64, Cl. 13—9.

Dillon, W. C., & Co., Inc.: *See*—
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Dillow, Noel E., J. W. Albright, and E. E. Bianco, to General Electric Co. Electrical apparatus. 3,137,829, 6–16–64, Cl. 336—57.

Dills, Reuben H., to Merconics. Package carrier. 3,149,367, 9–22–64, Cl. 16—110.

Dilnot, Sidney. Calcium silicate hydrate products. 3,144,-346, 8–11–64, Cl. 106—75.

Dilts, Fred. Hydro-jet subsoil aerator. 3,142,273, 7–28–64, Cl. 111—7.1.

Dilworth, Thomas B., and W. H. Held, to General Motors Corp. Railway vehicle grounding device. 3,137,375, 6–16–64, Cl. 191—1.

Di Maggio, Carmelo A.: *See*—
De Good, Maynard J., Di Maggio, Hidden, and Schneider. 3,136,406.

Di Maio, Vincent, and N. T. Miller, to Johns-Manville Fiber Glass Inc. Mineral fiber laminate and method of making same. 3,141,809, 7–21–64, Cl. 161—73.

Diman, William C., and M. J. Madden, to C. I. Hayes, Inc. Furnace construction and method of operating the construction. 3,160,403, 12–8–64, Cl. 263—36.

Di Matteo, Paul L., to Dynell Electronics Corp. Electronic memory circuit utilizing fedback. 3,138,761, 6–23–64, Cl. 328—121.

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Greenhouse, Henry M., Dimick, and Myer. 3,138,518.

Dimin, James M., and J. M. Hudson, to General Dynamics Corp. Safety device for venting tires. 3,157,219, 11–17–64, Cl. 152—427.

Dimitracopoulos, Panayotis C., and C. D. Pezaris. Audio-visual projector for sound-on-slide tablets. 3,122,053, 2–25–64, Cl. 88—28.

Dimitracopoulos, Panayotis C., and C. D. Pezaris. Audio-visual projection system. 3,122,054, 2–25–64, Cl. 88—28.

Dimitri, Mitchell S., to West Virginia Pulp and Paper Co. Method of preparing lignin-rubber coprecipitate and product. 3,163,614, 12–29–64, Cl. 260—17.5.
Dimmer, Robert P., and E. L. Roback, to Automatic Electric Laboratories, Inc. Waystation telephone system. 3,128,346, 4–7–64, Cl. 179—17.
Dimmick, Eugene T.: *See*—
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Dimmig, Daniel A., and J. J. Jaruzelski, to United States Steel Corp. Tetralin derivatives plasticizers for vinyl chloride polymers. 3,156,662, 11–10–64, Cl. 260—31.2.
Dimmitt, Robert E., and C. Kessner, to Dor-West, Inc. Automatic entrance with sliding doors. 3,136,538, 6–9–64, Cl. 268—39.
Dimo, Gheorghe P., to Ministerul Minelor Si Energiei Electrice. Device designed for the study of the operation of electrical power systems. 3,116,558, 1–7–64, Cl. 33—76.
Dimond, William J. Method of plotting outcrop contours of sub-surface mineral deposits. 3,124,038, 3–10–63, Cl. 88—24.
Dimpfl, Harry J. Trouser blousing device. 3,137,863, 6–23–64, Cl. 2—232.
Dimroth, Peter, P. Duffner, R. Oster, and H. Pasedach, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Processes for reacting dialkyl amines and heterocyclic secondary bases with formaldehyde and an alpha-hydroxyacetylene. 3,136,765, 6–9–64, Cl. 260—247.7.
Dinamarque, Remigio R. Right-angled triangle as an auxiliary calculating device. 3,139,234, 6–30–64, Cl. 235—61.
Di Nardo, Frank L., to Motorola, Inc. Television control system. 3,131,255, 4–28–64, Cl. 178—5.8.
Di Nardo, Frank L., to Motorola, Inc. Television receiver sound improvement apparatus. 3,135,827, 6–2–64, Cl. 178—5.8.
Dinarello, Joseph V.: *See*—
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Dinbergs, Kornelius, to The B. F. Goodrich Co. Thermal core of spandex fibers. 3,154,611, 10–27–64, Cl. 264—176.
Dinerstein, Samuel, and H. K. Cummings, to Amphenol-Borg Electronics Corp. Resilient means for driving escape wheel. 3,137,122, 6–16–64, Cl. 58—116.
Diness, Poul I. Finger protective guard for a rotary worm conveyor. 3,136,407, 6–9–64, Cl. 198—213.
Dinger, Frederick R., to Ford Motor Co. Belt tensioning means. 3,132,596, 5–12–64, Cl. 103—212.
Dinger, Leon J., to AMP Inc. Insulated splice connector and fluid stop. 3,150,233, 9–22–64, Cl. 174—84.
Dingle, William B., Jr., and R. E. Hughes. Carrier attachment for golf bag carts. 3,131,842, 5–5–64, Cl. 224—29.
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Dinkelkamp, Henry T., to Stewart-Warner Corp. Drainage apparatus. 3,140,756, 7–14–64, Cl. 184—1.5.
Dinkloh, Walter, to Gesellschaft fur Linde's Eismaschinen Aktiengesellschaft. Loading devices for vehicles. 3,126,110, 3–24–64, Cl. 214—77.
Dinkov, Ivan V., P. C. Russev, S. I. Stephanov, and K. N. Nitchev, to Bulgartabac, State Commercial Enterprise. Cart filling and baling machine. 3,145,647, 8–25–64, Cl. 100—53.
Dinsmore, Dawson J. Window sash run and balance apparatus. 3,147,517, 9–8–64, Cl. 20—52.2.
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Selsted, Walter T., and Dinsmore. 3,141,593.
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Dion, Warren E., and G. N. Willis, to The Arthur G. Russell Co., Inc. Control circuit for vibratory devices. 3,122,690, 2–25–64, Cl. 318—128.
Dionisotti, Joseph. Rock drilling tool. 3,139,149, 6–30–64, Cl. 175—413.
Dionisotti, Joseph. Wedge inserts for drill bit. 3,140,749, 7–14–64, Cl. 175—410.
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Davey, John P., Dionne, and Phillips. 3,145,409.
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Di Pasqua, Joseph, to Mechanical Swinging Cradle Corp. Torsion bar assembly for mechanical swing. 3,128,076, 4–7–64, Cl. 248—370.
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Diperstein, David, and Hardiman. 3,146,396.
Diperstein, David, and R. J. Hardiman, to D. Diperstein. Portable magnetic particle type crack detector having separate coils for alternating and direct current. 3,146,396, 8–25–64, Cl. 324—38.
Di Piano, Roger A. Clothes pin. 3,120,044, 2–4–64, Cl. 24—139.
Di Pietro, Carmelo V., to Anetsberger Bros., Inc. Duplex broiler. 3,146,693, 9–1–64, Cl. 99—446.
Di Pinto, Joseph G., to E. I. du Pont de Nemours and Co. Method of molding a polyurethane foam in a mold having an improved release agent. 3,127,457, 3–31–64, Cl. 204—54.
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Dippel, Cornelis J., and H. Jonker, to North American Philips Co., Inc. Method of manufacturing, by photographic agency, internal and/or external images on and/or in macromolecular supports with mercury and silver salts germ introduction. 3,130,052, 4–21–64, Cl. 96—49.
Dipprey, James C., and J. J. Sandifer, to Uni-Matic, Inc. Apparatus for polishing lens. 3,118,255, 1–21–64, Cl. 51—55.
Di Prima, Philip A. Protecting covers for nipples on nursing bottles. 3,140,789, 7–14–64, Cl. 215—11.
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Dirda, John, to Holley Carburetor Co. Aircleaner hold-down bracket. 3,129,079, 4–14–64, Cl. 55—505.
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Dirian, Gregoire, and H. Sack, to Houilleres du Bassin du Nord et du Pas-de-Calais, and Commissariat a l'Energie Atomique. Process for recovering the catalyst in an installation for the enrichment of a hydrogenated compound in deuterium. 3,163,589, 12–29–64, Cl. 204—59.
Di Ricco, Leo, and J. P. Del Favero, to International Business Machines Corp. Magnetic recording media. 3,148,082, 9–8–64, Cl. 117—132.
Di Rico, Rocco, ½ to C. Maliotis. Self-locking nut and the like. 3,119,430, 1–28–64, Cl. 151—7.
Dirienzo, Anthony C., to Foster Wheeler Corp. Multiconductor pressure fitting. 3,141,922, 7–21–64, Cl. 174—18.
Dirks, Johan F., to The Plastic Coating Corp. Apparatus for the liquid toning of latent electrostatic images. 3,155,546, 11–3–64, Cl. 118—637.
Dirksen, Clarence A. Boring tool. 3,146,813, 9–1–64, Cl. 145—120.
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Di Sabato, Charles A., and J. E. Owens, to E. I. du Pont de Nemours and Co. Process and apparatus for electrostatically applying separating and forwarding forces to a moving stream of discrete elements of dielectric material. 3,163,753, 12–29–64, Cl. 250—49.5.
Di Salvo, Anthony J., to Ford Motor Co. Door latch mechanism. 3,140,888, 7–14–64, Cl. 292—48.
Di Salvo, Anthony J., and M. M. Westerdale, to Ford Motor Co. Vehicle door latch mechanism. 3,121,579, 2–18–64, Cl. 292—48.
Di Salvo, Anthony J., and M. M. Westerdale, to Ford Motor Co. Vehicle door latch mechanism. 3,121,580, 2–18–64, Cl. 292—280.
Di Salvo, Anthony J., and M. M. Westerdale, to Ford Motor Co. Door latch mechanism. 3,123,388, 3–3–64, Cl. 292—48.
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Di Scala, Michael. Copper sulfate-O,O-dimethyl-S-(1,2-dicarboxyethyl) dithiophosphate pesticide. 3,144,382, 8–11–64, Cl. 167—16.
Disegna, Wayne L., to Sinclair Research, Inc. Removing nitrogen compounds by oxidation. 3,162,598, 12–22–64, Cl. 208—254.
Dishart, Harry S. Hand operated accelerator pedal control. 3,153,350, 10–20–64, Cl. 74—482.
Dishman, Gus K., to Lockheed Aircraft Corp. High capacity, compact landing gear. 3,124,391, 3–10–64, Cl. 301—1.
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Grimm, Phillip R. 3,151,776.
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Doleman, Jack, to The Cotton Silk and Man-Made Fibres Research Assn. Fluidised bed for heat treatment of web material. 3,122,427, 2–25–64, Cl. 34—95.
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Henrie, Thomas A., Dolezal, and Kleespies. 3,140,170.
Dolgin, Elliot F., to Fen-Mart, Inc. Beverage dispenser. 3,147,889, 9–8–64, Cl. 222—131.
Dolique, Jean-Michel, to Compagnie Generale de Telegraphie Sans Fil. Plasma confining device. 3,143,477, 8–4–64, Cl. 176—3.
Doll, Henri-Georges, and J. L. Dumanoir, to Schlumberger Well Surveying Corp. Methods and apparatus for investigating earth boreholes by means of electrodes constructed to contact the borehole walls. 3,132,298, 5–5–64, Cl. 324—10.
Doll, Martin E. Corner pad and blank. 3,151,832, 10–6–64, Cl. 248—345.1.
Doll, Michael J. Wagon chassis arrangement. 3,134,607, 5–26–64, Cl. 280—141.
Dollar Auto Electric Service: *See*—
Dollar, Robert T. 3,156,113.
Dollar, Billy. Flotation device. 3,158,101, 11–24–64, Cl. 103—5.
Dollar, Robert T., to Dollar Auto Electric Service. Device for testing engine fuel systems. 3,156,113, 11–10–64, Cl. 73—116.
Dollens, James R., to Arvin Industries, Inc. Method of making laminated pipe. 3,149,513, 9–22–64, Cl. 80—62.
Dollenmayer, William L., to International Business Machines Corp. Paper actuated bail. 3,157,266, 11–17–64, Cl. 197—138.
Dollenmayer, William L., and A. L. Wittwer, to International Business Machines Corp. Paper slot acoustical seal. 3,122,228, 2–25–64, Cl. 197—127.
Dolling, Ulrich: *See*—
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Dollinger Corp.: *See*—
Wilber, Paul F. 3,147,100.
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Dollinger, Kenneth, to Advanced Development Laboratories, Inc. Dual mode spiral antenna. 3,144,648, 8–11–64, Cl. 343—100.
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Dolman, Henry J. Luggage lockers and the like. 3,126,081, 3–24–64, Cl. 194—4.
Dolman, Henry J., and H. Meyer. Method and apparatus for forming heat sealable and removable label tabs for attachment to textile articles. 3,123,510, 3–3–64, Cl. 156—204.
Dolmetsch, Hans, to Phrix-Werke Aktiengesellschaft. Textile finishing process. 3,124,414, 3–10–64, Cl. 8—116.2.
Dolney, Stanley M., to The Cyril Bath Co. Tangent bending machine. 3,138,192, 6–23–64, Cl. 153—18.
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Dolph, James L., and A. L. Renkey, to Harbison-Walker Refractories Co. Ramming mix. 3,154,624, 10–27–64, Cl. 13—35.
Dolphin, John R. V., and L. B. Russell, to Lansing Bagnall Ltd. Guidance of industrial trucks. 3,143,081, 8–4–64, Cl. 104—246.
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Randall, Ralph R. 3,145,817.
Dols, Michael J., and C. Bokhoven, to Stamicarbon N.V. Process for the photochemical oxidation of NO to NO_2. 3,120,479, 2–4–64, Cl. 204—157.
Dölz, Heinrich. Electromagnetic oscillating drive, more particularly for plunger compressors. 3,143,281, 8–4–64, Cl. 230—55.
Dolz, Heinrich. Multi-stage turbo-compressors. 3,145,913, 8–25–64, Cl. 230—130.
Doman, Donald W.: *See*—
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Domar, Robert A., to U.S. Aluminum Siding Corp. Sheet metal siding. 3,157,003, 11–17–64, Cl. 50—230.
Domash, Lionel, R. C. Odioso, and S. L. Peake, to Gulf Research & Development Co. Alkylation of aromatics in the presence of W_2O_5 catalyst. 3,153,677, 10–20–64, Cl. 260—671.
Domaszewicz, Casimir J.: *See*—
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Dombre, Pierre, ½ to P. Saffin. Mixing tap. 3,126,914, 3–31–64, Cl. 137—625.
Dombrow, Bernard A., and S. Altscher, to Nopco Chemical Co. Stabilization of aromatic amines. 3,154,583, 10–27–64, Cl. 260—578.
Dombrow, Bernard A., and G. Fesman, to Nopco Chemical Co. Esterification process. 3,162,616, 12–22–64, Cl. 260—75.
Dombrow, Harry M. Ball point pen. 3,162,176, 12–22–64, Cl. 120—42.4.
Dombrowski, Edward J., to Sperry Rand Corp. Pin box and set pin assembly. 3,161,353, 12–15–64, Cl. 235—60.
Dombrowski, Henry G.: *See*—
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Domburg, Jacobus, and J. Mulder, to North American Philips Co., Inc. Pulse regenerator comprising a transistor regeneratively fed back by a saturable core and a linear core. 3,159,752, 12–1–64, Cl. 307—88.5.
Dome, Robert B., to General Electric Co. Cancellation of low frequency components in modulator output. 3,159,802, 12–1–64, Cl. 332—37.
Dome, Robert B., to General Electric Co. Automatic brightness control. 3,163,714, 12–29–64, Cl. 178—7.5.
Domenico, Robert J., and R. A. Henle, to International Business Machines Corp. Self repairing electrical signal-translating system. 3,152,320, 10–6–64, Cl. 340—147.
Domenighetti, Costante. Road tamping machine. 3,142,191, 7–28–64, Cl. 74—213.
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Domicone, Joseph J., and M. E. Nordberg, to Corning Glass Works. Silicone coated articles and method. 3,157,534, 11–17–64. Cl. 117—212.
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Dominguez, Arthur R., to Suchar Sales Corp. Filter discharge apparatus. 3,161,592, 12–15–64, Cl. 210—331.
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Hurter, Alfred T. 3,154,008.
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Sproule, Robert S. 3,130,955.
Sproule, Robert S. 3,146,990.
Sproule, Robert S., Boyd, and Kanger. 3,146,991.
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Truxa, Leslie. 3,140,225.
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Domizi, Dante J., to The Ohio Crankshaft Co. Current concentrator for high-frequency seam welding. 3,122,624, 2–25–64, Cl. 219—8.5.
Domka, Frank S. Self-cleaning cutting die with stripper elements separable from cutting die. 3,137,188, 6–16–64, Cl. 83—124.
Domning, William E., and D. L. Schechter, to The Dow Chemical Co. Production of rare earth chlorides of high purity. 3,153,570, 10–20–64, Cl. 23—17.
Dompier, Rafe F. Expansible bracelet for keys. 3,124,286, 3–10–64, Cl. 224—28.
Dompieri, Otto. Collapsible drawing table. 3,141,260, 7–21–64, Cl. 45—131.
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Donahue, Lawrence E., to Minneapolis-Honeywell Regulator Co. Air conditioning mixing box control. 3,123,294, 3–3–64, Cl. 236—13.
Donahue, Leo O., and R. E. Behrens. Method and apparatus for conveying, stacking and counting papers. 3,117,500, 1–14–64, Cl. 93—93.
Donahue, William J.: *See*—
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Semenoff, Robert H., and Donahue. 3,158,060.
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Donaldson, Charles V., to The Singer Co. Work transporter system. 3,123,200, 3–3–64, Cl. 198—38.
Donaldson, Coleman du P., to Thompson Ramo Wooldridge, Inc. Homopolar generator. 3,143,673, 8–4–64, Cl. 310—11.
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Donaldson, George R., to Universal Oil Products Co. Porosimeter. 3,158,020, 11–24–64, Cl. 73—38.
Donaldson, George R., E. L. Pollitzer, and R. S. Corey, to Universal Oil Products Co. Olefin polymerization catalyzed by aminated alkali metal. 3,154,595, 10–27–64, Cl. 260—683.15.
Donaldson, John S. Parachute disconnect device. 3,128,519, 4–14–64, Cl. 24—230.
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Donath, Erwin, to Fifth Dimension Inc. Mercury relay. 3,144,533, 8–11–64, Cl. 200—112.
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Donay, John K., and V. G. Tahan; said Donay assor. to said Tahan. Method of making combined fruit yogurt. 3,128,190, 4–7–64, Cl. 99—59.
Donee, William W. Terminal pin ejector. 3,121,282, 2–18–64, Cl. 29—206.
Donelan, Lynn E., to Allis-Chalmers Mfg. Co. Impulse solenoid actuated pivoted valve. 3,120,943, 2–11–64, Cl. 251—139.
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Donelson, Claris L., and P. Betts, to International Business Machines Corp. Developing apparatus. 3,146,687, 9–1–64, Cl. 95—1.7.
Dones, Raymon. Loud speaker enclosure. 3,150,739, 9–29–64, Cl. 181—31.
Doney, George S. Parking meter with user identification. 3,157,263, 11–17–64, Cl. 194—54.
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Roguin, André, and Donguy. 3,138,710.
Donguy, Rene, A. Roguin, and J. Megy, to Commissariat a l'Énergie Atomique. Rotary selector permitting variable communications to be established between an assembly of passageways traversed by a fluid. 3,116,757, 1–7–64, Cl. 137—625.11.
Donguy, René, and J. Mégy, to Commissariat a l'Energie Atomique. Apparatus for detecting faults in the casings of fuel rods employed in a nuclear reactor. 3,146,171, 8–25–64, Cl. 176—19.
Donguy, René, and J. Megy, to Commissariat a l'Energie Atomique. Methods and devices for detecting the presence of fission products in the coolant fluid streams of a nuclear reactor. 3,161,569, 12–15–64, Cl. 176—19.
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Zweibel, Joseph, Doniger, and Knemeyer. 3,126,474.
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Cramer, Ted H., and Doniguian. 3,153,217.
Donini, Piero, to Istituo Farmacologico Serono. Method for preparation of (3,2-C)-isoxazoles. 3,136,757, 6–9–64, Cl. 260—239.55.
Donko, Harold A., to Stewart-Warner Corp. Suppressed wide scale electro-magnetic gauge. 3,159,788, 12–1–64, Cl. 324—146.
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Lanctot, Donald H. 3,141,943.
Lanctot, Donald H. 3,157,844.
Donley, Carson O., D. B. Kuiper, E. W. Scheibe, and R. E. Morgan, to General Motors Corp. Variable speed accessory drive. 3,157,066, 11–17–64, Cl. 74—665.
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Donley, Philip F. 3,131,941.
Donlon, John J. Building wall and partition structure. 3,160,246, 12–8–64, Cl. 189—34.
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Brown, Donald A., and Downing. 3,142,367.
Donnell, Conard K., to Shell Oil Co. Initial boiling point analyzer. 3,119,250, 1–28–64, Cl. 73—17.
Donnell, Conard K., to Sun Oil Co. Continuous distillation analyzer. 3,123,541, 3–3–64, Cl. 202—160.
Donnell, Harvey P., to Eastman Kodak Co. Device for controlling the severing of a strip material into sheets. 3,143,-017, 8–4–64, Cl. 83—211.
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Donnelly, Harold F., to Kimberly-Clark Corp. Inhibiting foaming of cellulose slurries containing wet strength resins. 3,146,158, 8–25–64, Cl. 162—164.
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Donnelly, William H., and E. V. McMullin. Ball valve. 3,146,792. 9–1–64, Cl. 137—614.17.
Donner, Meier, to Compagnie Generale de Geophysique. Electric alarm systems. 3,132,330, 5–5–64, Cl. 340—213.
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Donofrio, Angelo J., to Toscony, Inc. Air hammer mandrel press. 3,156 038, 11–10–64, Cl. 29—234.
D'Onofrio, Anthony A., to Union Carbide Corp. Linear polycarbonamides from piperazines and fluorene dicarboxylic acids. 3,143,530, 8–4–64, Cl. 260—78.
Donoghue, Florence F., and R. Berry, to Draper Corp. Picking motion for looms. 3,119,417, 1–28–64, Cl. 139—147.
Donoghue, Robert J. Container for dispensing selected quantities of fluid. 3,141,574, 7–21–64. Cl. 222—157.
Donohue, John A., and W. A. Wilson, to Standard Oil Co. Separation of oxygen difluoride and ozone. 3,134,656, 5–26–64, Cl. 55—71.
Donohue, Thomas F., and C. W. Schade, to General Motors Corp. Clustered engine inlet. 3,137,129, 6–16–64, Cl. 60—35.6.
Donoso, Julius J., to American Smelting and Refining Co. Sealing sintering machines. 3,131,050, 4–28–64, Cl. 75—5.
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Donovan, Francis J. Knife guide for cutting pies. 3,130,764, 4–28–64, Cl. 146—150.
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Donovan, Joseph J. Automatic film developing apparatus. 3,144,030, 8–11–64, Cl. 134—58.
Donovan, Marion. Facial tissue. 3,119,516, 1–28–64, Cl. 221—47.
Donovan, Robert O. Photoelectric scanning compass monitoring system for remotely indicating direction. 3,142,050, 7–21–64, Cl. 340—212.
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Doolittle, Charles, to Westinghouse Air Brake Co. Multicharacteristic valve device. 3,128,635, 4–14–64, Cl. 74—471.
Doolittle, Donald B., to All American Engineering Co. Rotary fluid brake means. 3,140,761, 7–14–64, Cl. 188—90.
Doolittle, Donald B., to All American Engineering Co. Arresting gear for moving objects. 3,160,371, 12–8–64, Cl. 244—110.
Doolittle, Howard D., to The Machlett Laboratories, Inc. Electron tube electrode support structures. 3,153,170, 10–13–64. Cl. 313—243.
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Dooner, John L., to General Bronze Corp. Capacity-compensated motor-driven antenna. 3,146,450, 8–25–64, Cl. 343—723.
Doorley, Richard B. Car spotter with retarding action. 3,146,728, 9–1–64, Cl. 104—162.
Dootson, Norman L., ¼ to W. M. Colombo. Safety-razor having cooperating means on the cap and guard to adjust the blade cutting edges. 3,129,508, 4–21–64, Cl. 30—73.
Dootson, Norman L., ⅓ to W. M. Colombo. Lather and cream spreader and leveler. 3,137,879, 6–23–64, Cl. 15—236.
Dopieralski, Edmund L. Bowling score sheet with slides for the recording of composite scores. 3,119,616, 1–28–64, Cl. 273—54.
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Dora, Ralph A., and D. D. Richards, to Beckman Instruments, Inc. Chromatographic analyzer. 3,158,019, 11–24–64, Cl. 73—23.1.
Dora, Ralph A., to Beckman Instruments, Inc. Temperature controller. 3,159,737, 12–1–64, Cl. 219—501.
Doran, Leo F., to Beaver Precision Products, Inc. Universally jointed spindle. 3,128,611, 4–14–64, Cl. 64—4.
Doran, Leo F., to Beaver Precision Products, Inc. Lead shift mechanism. 3,130,522, 4–28–64, Cl. 51—95.
Doran, Leo F., to Beaver Precision Products, Inc. Method and machine for cutting threads of varying pitch. 3,145,-599, 8–25–64, Cl. 82—14.
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Dorchak, Alexander. Opener for a dispenser. 3,131,831, 5–5–64, Cl. 222—86.
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Dore, Burnell V., to Sylvania Electric Products Inc. Electronic vacuum gauge. 3,139,754, 7–7–64, Cl. 73—398.
Dore, James E., to Kaiser Aluminum & Chemical Corp. Refractory stopper for aluminum casting apparatus and method of casting. 3,124,854, 3–17–64, Cl. 22—84.
Dore, John L., Co.: *See*—
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Dorendorf, Heinz, A. Ottmann, and L. Wandinger, to Siemens & Halske Aktiengesellschaft. Semiconductor device with current dependent emitter yield and variable breakthrough voltage. 3,119,026, 1–21–64, Cl. 307—88.5.
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Dorey, George B., to Enterprise Railway Equipment Co. Sliding hopper closure outlet assembly. 3,138,116, 6–23–64, Cl. 105—253.
Dorey, George B., to Enterprise Railway Equipment Co. Sliding hopper closure housing outlet assembly. 3,138,117, 6–23–64, Cl. 105—282.
Dorey, George B. Gate latching means for a hopper discharge outlet structure. 3,145,664, 8–25–64, Cl. 105—253.
Dorey, Ramond F., to Dorey Corrugated Paper Products, Inc. Combined toilet and water storage system. 3,118,146, 1–21–64, Cl. 4—137.
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Schönborn, Wolfgang, and Dörfel. 3,148,278.
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Newcomer, Jack S., Weil, and Dorfman. 3,148,048.
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Weil, Edward D., Linder, Dorfman, and Newcomer. 3,154,399.
Weil, Edward D., Newcomer, and Dorfman. 3,154,396.
Dorfman, Edwin, E. D. Weil, and R. J. Gruber, to Hooker Chemical Corp. Process for hydrogenating 2,5-dichloro-3-nitrobenzoic acid. 3,158,646, 11–24–64, Cl. 260—501.
Dorfman, Hiller D., and R. H. Flick, to Westinghouse Electric Corp. Circuit breakers. 3,136,921, 6–9–64, Cl. 317—11.
Dorfman, Jerome J. Container. 3,139,227, 6–30–64, Cl. 229—14.
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Dorfman, Ralph I., M. Gut, B. Loken, and M. Hagopian, to Worcester Foundation For Experimental Biology. 6-alpha methyl pregnenolones and method of preparation. 3,137,-689, 6–16–64, Cl. 260—239.55.
Dorgelo, Eduard G., to North American Philips Co., Inc. Electron tube having coaxial terminals for an interiorly emissive cathode. 3,152,276, 10–6–64, Cl. 313—30.
Doring, Erwin: *See*—
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Dorion, George H., and K. O. Loeffler, to American Cyanamid Co. Process for preparing aci-aromatic nitro compounds. 3,127,335, 3–31–64, Cl. 204—158.
Dorjee, Hendrik, and J. Lesterhuis, to North American Philips Co., Inc. Socket for connector for printed circuit boards. 3,157,452, 11–17–64, Cl. 339—176.
Dorl, Francis J. L. Triple race tapered roller bearings. 3,128,134, 4–7–64, Cl. 308—174.
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Dorman, Isidore, ½ to H. H. Schulman. Telephone light. 3,137,447, 6–16–64, Cl. 240—2.17.
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Drake, Leonard C., C. J. Plank, E. J. Rosinski, and R. B. Smith, to Socony Mobil Oil Co., Inc. Preparation of a silica-zirconia catalyst for conversion of hydrocarbons. 3,137,658, 6–16–64, Cl. 252—452.

Drake, Robert T., to Clevite Harris Products, Inc. Permanently lubricated rubber bearing. 3,133,769, 5–19–64, Cl. 308—36.1.

Drake, Robert W., and S. H. Creed, to FMC Corp. Feed mechanism for fruit pitting machine. 3,148,719, 9–15–64, Cl. 146—51.

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Driscoll, Timothy E. and H. R. Canvas stretching frame. 3,127,695, 4–7–64, Cl. 45—24.
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Du Bonnet, Renee (previously known as R. B. Neal). Lint removing device. Re. 25,675, 11–3–64, Cl. 15—104.
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Nolan, Charles W. 3,121,963.
Du Broff, Warren. Pallet truck. 3,143,358, 8–4–64, Cl. 280—43.12.
Du Broff, Warren. Case stacking apparatus. 3,156,365, 11–10–64, Cl. 214—6.
Du Broff, Warren. Hand pallet truck. 3,159,380, 12–1–64, Cl. 254—8.

Du Brow, Paul L.: *See*—
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Du Brow, Paul L., and J. S. Brandiff, to Armour and Co. Surface active compositions. 3,154,489, 10–27–64, Cl. 252—8.75.
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Du Buc, Robert J., J. K. Nice, and F. A. Horning, to The Bendix Corp. Method of making a pivot nut for a brake adjuster. 3,143,795, 8–11–64, Cl. 29—543.
Du Buis, Edwin O., and E. L. Cucksey, to Willcox & Gibbs Sewing Machine Co. Doffing mechanism. 3,116,587, 1–7–64, Cl. 57—53.
Dubuisson, Eduardo R. Apparatus for the photographic reproduction of typographic compositions. 3,130,656, 4–28–64, Cl. 95—4.5.
Dubuisson, Jacques: *See*—
Accary, Andre, and Dubuisson, and Humbert. 3,142,-533.
Cogez, Paul, Dubisson, and Humbert. 3,120,944.
Dubuit, Louis G. Movement transmission system for silk-screen printing machines and the like. 3,126,824, 3–31–64, Cl. 101—124.
Dubuit, Louis G. Printing of cylindrical articles. 3,133,496, 5–19–64, Cl. 101—40.
Dubuque Awning & Tent Co.: *See*—
Frommelt, Cyril P. and S. J. 3,125,155.
Ducan, Eugene F., to Cutler-Hammer, Inc. Treadle switch. 3,118,031, 1–14–64, Cl. 200—86.5.
Ducati, Adriano C.: *See*—
Giannini, Gabriel M., and Ducati. 3,122,660.
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Ducati, Adriano C., to Giannini Scientific Corp. Apparatus and method for heating and cutting an electrically-conductive workpiece. 3,153,133, 10–13–64, Cl. 219—121.
Ducayet, Kirby S., Jr., to Clark-Aiken Co. Shuttle piler. 3,131,819, 5–5–64, Cl. 214—6.
Ducey, James A., to Ogden Corp. Diverter valve for a water closet. 3,126,916, 3–31–64, Cl. 137—625.47.
Ducey, James A., to Ogden Corp. Device for silencing water flowing into storage tank of water closet. 3,147,762, 9–8–64, Cl. 137—216.
Duchene, Jacques, and R. Desbard, to Compagnie de Saint Gobain. Indicator follower mechanism for measuring apparatus. 3,118,068, 1–14–64, Cl. 250—231.
Duchess Jewelry Mfg. Corp.: *See*—
Pompeo, Louis. 3,137,123.
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Duchting, Werner, to Licentia Patent-Verwaltungs-G.m.b.H. Arrangement for balancing the power transmission line to a polyphase arc furnace. 3,156,754, 11–10–64, Cl. 13—9.
Duck, Edward W., and J. A. Waterman, to Shell Oil Co. Catalyst compositions. 3,155,642, 11–3–64, Cl. 260—94.3.
Ducker, Geoffrey B.: *See*—
Bancroft, Thomas, Walker, Lucas, and Ducker. 3,148,-590.
Ducker, John W.: *See*—
Bernstein, Ursula J. H., Ducker, Ellis, and Petrow. 3,154,542.
Duckett, Richard G., to Foseco International Ltd. Treatment of vessels used for holding molten aluminum metal. 3,153,-602, 10–20–64, Cl. 134—5.
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Cayzac, Jacques, and Ducot. 3,119,969.
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Ducrot, Albert. Self-supporting folding beds with a view to upholster them into furniture elements when they are folded. 3,161,892, 12–22–64, Cl. 5—5.
Dudak, Rita M.: *See*—
Perry, Donald D., and Dudak. 3,145,192.
Dudar, Walter H., to Tel-Air Corp. Tire pressure indicators. 3,162,835, 12–22–64, Cl. 340—58.
Dudas, Rudolf. Error detector and actuator. 3,126,088, 3–24–64, Cl. 198—40.
Duddleston, Kenneth J. Tarpaulin superstructure for trailers. 3,160,436, 12–8–64, Cl. 296—105.
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Pilia, Frank J., and Duddy. 3,128,369.
Duddy, Joseph C., to The Electric Storage Battery Co. Method of manufacturing fuel cell and/or battery electrode. 3,120,457, 2–4–64, Cl. 136—120.
Duddy, Joseph C., to The Electric Storage Battery Co. Electrodes and method of making the same. 3,121,029, 2–11–64, Cl. 136—19.
Duddy, Joseph C., and J. W. Consolloy, to The Electric storage Battery Co. Gas depolarized cell. 3,124,487, 3–10–64, Cl. 136—136.
Duddy, Joseph C., and J. W. Consolloy, to The Electric Storage Battery Co. Fuel cells. 3,132,973, 5–12–64, Cl. 136—86.
Dudek, Edmund F. Gas-liquid separator. 3,161,490, 12–15–64, Cl. 55—205.
Dudek, Robert F.: *See*—
Markant, Henry P., and Dudek. 3,153,609.
Dudley, Edward A.: *See*—
Adamek, Stephen, and Dudley. 3,136,739.
Dudley, Frank E. Motor vehicle light testing apparatus. 3,149,197, 9–15–64, Cl. 88—14.
Dudley, Homer T. Apparatus for concrete building. 3,162,-418, 12–22–64, Cl. 248—354.
Dudley, Hudson L., H. F. Snelling, and A. M. Mahler, Jr., to Melpar, Inc. Heat transfer test device. 3,142,983, 8–4–64, Cl. 73—190.
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Muggleton, Peter W., Dudley, and Gonzalez Bellido. 3,135,663.
Dudley, John S., to Dennison Mfg. Co. Device for printing labels. 3,116,686, 1–7–64, Cl. 101—97.
Dudley, John W., to Honeywell Inc. Underwater locating apparatus. 3,160,850, 12–8–64, Cl. 340—6.
Dudley, Robert E., to Tracey, Cook, Brunstrom & Dudley. Separating strips for wall joints. 3,162,906, 12–29–64, Cl. 20—74.
Dudley, William A.: *See*—
Lamb, Charles P., and Dudley. 3,121,442.
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Dudzik, Chester J., and R. G. Hilbert. Process for the manufacture of torque stretch yarn. 3,152,436, 10–13–64, Cl. 57—157.
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Duell, Helen E., to Smith Kline & French Laboratories. Enhancing the absorption of orally administered medicament with disaccharide fatty acid esters. 3,160,565, 12–8–64, Cl. 167—82.
Duenke, Clarence G., to The Clarken Co. Testing apparatus for temperature warning device. 3,155,951, 11–3–64, Cl. 340—214.
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Duennenberger, Max, and A. E. Siegrist, to Ciba Ltd. New α:β-di-[benzoxazolyl-(2)]-ethylenes. 3,118,883, 1–21–64, Cl. 260—240.
Duennenberger, Max, A. E. Siegrist, and E. Maeder, to Ciba Ltd. Bis-p,p-di(1,3-dihydroxy benzoyl) benzene. 3,123,647, 3–3–64, Cl. 260—591.
Duennenberger, Max, A. E. Siegrist, E. Maeder, and P. Liechti, to Ciba Ltd. New stilbenyl-monoazole compounds. 3,133,916, 5–19–64, Cl. 260—240.
Duer, Frederick L. Folding table. 3,141,425, 7–21–64, Cl. 108—120.
Duer, Morris J., to General Motors Corp. Intake-driven air filter with variable speed reducing drive mechanism. 3,116,990, 1–7–64, Cl. 55—294.
Duerksen, Arnold, to Super Mold Corp. of California. Tire mold loader. 3,130,446, 4–28–64, Cl. 18—2.
Duero, John J., and C. G. Traub, to A. O. Smith Corp. Wide-hipped frame having integral torque box. 3,129,954, 4–21–64, Cl. 280—106.
Duesler, Paul W. Interlocking truss. 3,124,846, 3–17–64, Cl. 20—.5.
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Dufendach, William R., and M. J. Applegate. Electronic apparatus for classroom instruction. 3,147,555, 9–8–64, Cl. 35—8.
Du Feu, Alan N., to S. Smith & Sons (England) Ltd. Indicating instruments. 3,126,863, 3–31–64, Cl. 116—129.
Duff, Billy E., to Midwestern Instruments, Inc. Proportional solenoid. 3,154,729, 10–27–64, Cl. 317—188.
Duff, Harold H., Entwistle Mfg. Corp. Wire handling machine. 3,131,884, 5–5–64, Cl. 242—128.
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Duffek, Edward F., Jr., to California Research Corp. Tantalum-titanium base alloy. 3,128,178, 4–7–64, Cl. 75—174.
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Duffy, James V.: *See*—
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Duffy, Walter R., to The Anaconda Co. Trolley pole guide. 3,152,673, 10–13–64, Cl. 191—35.
Duffy, William B., and R. A. Hartman, to United-Carr Fastener Corp. Quarter-turn fastener and assembly. 3,121,273, 2–18–64, Cl. 24—221.
Duflot, Rene L. Apparatus for spreading fabric piece goods. 3,134,183, 5–26–64, Cl. 38—143.
Dufour, Robert J. P., to La Telemecanique Electrique. Limit switch control mechanism. 3,126,460, 3–24–64, Cl. 200—47.
Duganich, Joseph W., to Recreation Equipment Corp. Portable backstop. 3,137,502, 6–16–64, Cl. 273—1.5.
Dugay, Pierre, to D.B.A. Driving devices with shear section. 3,126,723, 3–31–64, Cl. 64—28.
Duggan, James E., to Watts Electric & Mfg. Co. Grommet assembly. 3,162,411, 12–22–64, Cl. 248—56.
Duggan, James J., to Kelsey-Hayes Co. Wheels. 3,138,407, 6–23–64, Cl. 301—9.

Duggan, Raymond J., to Allied Chemical Corp. Process for the production of cycloaliphatic amines. 3,117,992, 1–14–64, Cl. 260—563.
Duggan, Robert B., and W. J. Witten, Jr., to American Radiator & Standard Sanitary Corp. Baseboard radiator. 3,122,983, 3–3–64, Cl. 98—40.
Duggan, Robert B., and J. B. Uhl, to American Radiator & Standard Sanitary Corp. Air separating means. 3,123,-454, 3–3–64, Cl. 55—200.
Duggar, Anderson, Jr. Airplane power dolley. 3,150,734, 9–29–64, Cl. 180—11.
Dugger, Ralph L. Door. 3,118,189, 1–21–64, Cl. 20—19.
Duggins, William E., F. A. Hessel, and J. Werner, to General Aniline & Film Corp. Method of defoliating plants. 3,123,462, 3–3–64, Cl. 71—2.5.
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Duhaime, Raymond A., and C. S. Lasto, to Air-Vac Engineering Co., Inc. Solder removing tool. 3,163,145, 12–29–64, Cl. 113—59.
Duhamel, Eugene E. Portable greenhouse. 3,121,975, 2–25–64, Cl. 47—17.
Du Hamel, Raymond H., V. P. Minerva, and F. R. Ore, to Collins Radio Co. Side loaded logarithmically periodic antenna. 3,127,611, 3–31–64, Cl. 343—792.5.
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De Haan, Edward F., Van Santen, Duinker, Diemer, and Tummers. 3,163,851.
Enz, Ulrich E., Duinker, and Wijn. 3,123,807.
Duinker, Simon, to North American Philips Co., Inc. Method of manufacturing multiple magnetic heads. 3,126,615, 3–31–64, Cl. 29—155.5.
Duinker, Simon, and J. Bos, to North American Philips Co., Inc. Method of manufacturing a magnetic head having a glass spacer. 3,117,367, 1–14–64, Cl. 29—155.5.
Duinker, Simon, G. Diemer, E. F. De Haan, and J. G. Van Santen, to North American Philips Co., Inc. Matrix cross-point scanning system. 3,142,819, 7–28–64, Cl. 340—166.
Duinker, Simon, and J. Bos, to North American Philips Co., Inc. Method of producing magnetic heads with bonding glass gap spacers. 3,145,453, 8–25–64, Cl. 29—155.5.
Dujardin, Jean A. J. A., and J. L. M. Lageot, to Babson Bros. Co. Electronically controlled milking installation. 3,117,553, 1–14–64, Cl. 119—14.28.
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Hoag, John F., and Larson. 3,159,077.
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Duke, Alexander J., ¼ to B. R. Barasch. Convertible chair lounge. 3,145,049, 8–18–64, Cl. 297—105.
Duke, Charles E., and H. B. Diamant, to HRB-Singer, Inc. Isotropic recording accelerometer. 3,140,910, 7–14–64, Cl. 346—7.
Duke, Charles S., Jr. Spray gun. 3,120,347, 2–4–64, Cl. 239—332.
Duke, George A., Jr. Utensil holddown-equipped burner. 3,119,003, 1–21–64, Cl. 219—37.
Duke, James B., to Minerals & Chemicals Philipps Corp. Method for the froth flotation of slimed minerals and ores. 3,151,062, 9–29–64, Cl. 209—3.
Duke, James B. to Minerals & Chemicals Philipp Corp. Flotation of metallic soap. 3,158,570, 11–24–64, Cl. 210—44.
Duke, James B., to Minerals & Chemicals Philipp Corp. Water purification process. 3,160,586, 12–8–64, Cl. 210—44.
Dulaney, Eugene L., and D. Hendlin, to Merck & Co., Inc. Method for producing 6-demethylchlorotetracycline. 3,160,-570, 12–8–64, Cl. 195—80.
Dulaney, Richard O. Hydraulic well pump. 3,128,675, 4–14–64, Cl. 91—176.
Dulebohn, Richard E., and A. W. Bagley, to Pacific Curtainwall, Inc. Window frame apparatus. 3,118,188, 1–21–64, Cl. 20—11.
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Dulin, Gerald F., to Sea-Space Systems, Inc. Electronic acoustic receiver. 3,138,778, 6–23–64, Cl. 340—15.
Dulin, William E., and J. B. Wright, to The Upjohn Co. 1,3,5-trisubstituted pyrazoles. 3,150,148, 9–22–64, Cl. 260—310.
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Doll, Henri-Georges, and Dumanoir. 3,132,298.
Dumas, Francois: *See*—
Pigeroulet, Jean, and Dumas. 3,153,900.
Dumas, Lucien J.-M. B., to Societe Geotechnique pour la Production du Petrole Geopetrole. System for piping fluids across a body of water. 3,143,861, 8–11–64, Cl. 61—42.
Dumatic Industries, Inc.: *See*—
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Seifert, Maurice. 3,133,466.
Dumbeck, Helen E. Steam cooking utensil. 3,141,455, 7–21–64, Cl. 126—369.
Dumbovich, Boris: *See*—
Vargha, László, and Dumbovich. 3,152,147.
Dumin, David J.: *See*—
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Dumitru, Earl T., to The Dow Chemical Co. Preparation of collagen films. 3,152,203, 10–6–64, Cl. 264—212.
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Anton, Balogh, Alexandru, Dumitru, and Elena. 3,117,-995.
Dumm, Robert P., to Pacific Valves, Inc. Soft seated globe valve body construction. 3,139,285, 6–30–64, Cl. 277—64.
Dumpis, Janis, to Champ-Items, Inc. Core plug replacement. 3,123,245, 3–3–64, Cl. 220—24.5.
Dumpis, Janis, to Champ-Items, Inc. Replacement kit for defective bearings. 3,152,846, 10–13–64, Cl. 308—37.
Dun & Bradstreet, Inc.: *See*—
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Dunaski, Frank. Furniture moving device. 3,145,863, 8–25–64, Cl. 214—390.
Dunay, Michael, and H. D. Noether, to Celanese Corp. of America. Process for polymerizing vinyl ethers with vanadyl or vanadic sulfate catalysts. 3,156,680, 11–10–64, Cl. 260—91.1.
Dunay, Michael F., and H. D. Noether, to Celanese Corp. of America. Polymerization of nitrile monomers with vanadium compound or ferric sulfate as catalyst. 3,132,122, 5–5–64, Cl. 260—85.5.
Dunbar, Joseph E., to The Dow Chemical Co. S-(10-phenoxarsinyl) alkanoylamidobenzene sulfonates and thiosulfonates. 3,162,661, 12–22–64, Cl. 260—440.
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Brown, Julian, Jr., and Duncan. 3,128,439.
Duncan, Colin R. Dispenser for adhesive tape or strip. 3,132,783, 5–12–64, Cl. 225—25.
Duncan, Donal B., J. L. Henry, Jr., and S. D. Blitzer, to North American Aviation, Inc. System providing error rate damping of an autonavigator. 3,140,482, 7–7–64, Cl. 343—6.
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Duncan, Douglas S., deceased; M. M. Duncan, executrix. Locking device on hydraulic brakes to prevent theft of automobiles. 3,116,752, 1–7–64, Cl. 137—384.6.
Duncan, Edward T., to The Maintenance Co. Emergency lighting unit. 3,159,755, 12–1–64, Cl. 307—88.5.
Duncan, Ira J., to Detrex Chemical Industries, Inc. Composition and method for coating stainless steel articles. 3,130,087, 4–21–64, Cl. 148—6.24.
Duncan, James E., and J. J. Smith, to Pittsburgh Plate Glass Co. Television tube with improved optical filter. 3,143,-683, 8–4–64, Cl. 313—110.
Duncan, Larry K., to Vitro Corp. of America. Manufacture of dense thorium oxide. 3,153,569, 10–20–64, Cl. 23—14.5.
Duncan, Lee G., and H. D. Jones, Jr. Device for simultaneously ruling a plurality of lines. 3,157,950, 11–24–64, Cl. 33—41.
Duncan, Lorne R., to Harbison-Walker Refractories Co. Refractory brick units. 3,140,676, 7–14–64, Cl. 110—99.
Duncan, Lorne R., to Harbison-Walker Refractories Co. Oxygen converter linings. 3,141,917, 7–21–64, Cl. 266—43.
Duncan, Loney R., Jr.: *See*—
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Duncan, Robert. Door fittings. 3,157,418, 11–17–64, Cl. 292—229.
Duncan, Robert B. Surgical instruments. 3,146,776, 9–1–64, Cl. 128—12.
Duncan, Robert P. Combustion control system. 3,158,320, 11–24–64, Cl. 236—15.
Duncan, Ronald S., and B. W. Arnold. Insecticide applicator structure. 3,159,144, 12–1–64, Cl. 119—157.
Duncan, Thomas F.: *See*—
Maxwell, John W., Booth, and Duncan. 3,133,031.
Duncan, Thomas W., to Design and Mfg. Corp. Dishwasher ventilating system. 3,126,898, 3–31–64, Cl. 134—99.
Duncanson, Peter P. Plow attachment. 3,147,812, 9–8–64, Cl. 172—736.
Duncanson, Robert H., and L. E. Nelson, to General Mills, Inc. Apparatus for sealing sheets having curved edges. 3,138,513, 6–23–64, Cl. 156—467.
Dunckel, Bruce G., to Silvray Lighting, Inc. Push release latch. 3,131,958, 5–5–64, Cl. 292—99.
Dundee, Ben. Method of manufacturing phenols. 3,133,-122, 5–12–64, Cl. 260—621.
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Ryan, Wayne L. 3,149,054.
Dunder, David: *See*—
Danciart, Ted T., and Dunder. 3,142,307.
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Duner, Viking N. C., to Gotaverken, Aktiebolaget. Device for hydraulic apparatuses comprising a double acting piston motor. 3,127,817, 4–7–64, Cl. 91—216.
Dungler, Julien, to Artos Maschinenbau Dr. Ing. Meier-Windhorst. Apparatus for a wet finishing process for continuous sheets of materials. 3,128,206, 4–7–64, Cl. 118—50.

Dunham, Bradford, and J. C. Slonczewski, to International Business Machines Corp. Magnetic film logical bias device. 3,151,315, 9–29–64, Cl. 340—174.

Dunham-Bush, Inc.: *See*—
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Dunham, Frederick S., to Otis Elevator Co. Sliding door hanger. 3,143,758, 8–11–64, Cl. 16—88.

Dunham, Philip N., to Hampshire Mfg. Corp. Mattress with pump and method for forming same. 3,155,991, 11–10–64, Cl. 5—348.

Dunham, Russell H., to The Dunham Tool Co., Inc. Vacuum gripper. 3,147,017, 9–1–64, Cl. 279—3.

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Dunhill International, Inc.: *See*—
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Dunipace, Donald W., to Libbey-Owens-Ford Glass Co. Temperature control of molten glass. 3,157,483, 11–17–64, Cl. 65—204.

Dunipace, Donald W., and F. J. Carson, to Libbey-Owens-Ford Glass Co. Apparatus for treating multiple sheet glazing units. 3,147,104, 9–1–64, Cl. 65—349.

Dunker, John S. Carrier for multisection farm implements. 3,156,306, 11–10–64, Cl. 172—456.

Dunklee, Robert E., Jr., to C. G. Haire and R. C. Olson. Fluid feeding device. 3,135,279, 6–2–64, Cl. 137—99.

Dunkle, Robert V., J. T. Gier, and R. D. Roddick. Method of making electromagnetic wave reflector. 3,136,674, 6–9–64, Cl. 156—197.

Dunlap, Arthur H., to Beadex Dry Wall Specialties, Inc. Clip for securing suspended ceiling structural members. 3,130,821, 4–28–64, Cl. 189—35.

Dunlap, Charles K., Jr.: *See*—
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Dunlap, Charles K., Jr., D. C. Alexander, P. G. Hart, and J. P. Hall, to Sonoco Products Co. Method and apparatus for making composite oil containers of spirally wound strips. 3,159,515, 12–1–64, Cl. 156—190.

Dunlap, David E., to Monsanto Co. Process for making p-nitrochlorobenzene. 3,153,674, 10–20–64, Cl. 260—646.

Dunlap, Donald T., and H. W. Coates, to Celanese Corp. of America. Low density non-woven web. 3,118,750, 1–21–64, Cl. 55—524.

Dunlap, Donald T., and R. E. St. Pierre, to Celanese Corp. of America. Tow opening. 3,156,016, 11–10–64, Cl. 19—66.

Dunlap Robert B.: *See*—
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Dunlavy, John H., Jr., to All Products Co. Spiral antenna mounted on openwork support. 3,129,427, 4–14–64, Cl. 343—881.

Dunlop, Edmond G., to General Steel Industries, Inc. Radial coupler draft gear arrangement. 3,149,731, 9–22–64, Cl. 213—9.

Dunlop Rubber Co. Ltd.: *See*—
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Dyer, Francis J. Floating vessel. 3,152,570, 10–13–64, Cl. 114—69.
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Dykes, Robert L. Gear shifting mechanism. 3,122,936, 3–3–64, Cl. 74—335.
Dykinga, Donald L. Head halter. 3,118,443, 1–21–64, Cl. 128—75.
Dykstra, Fred J., to Ethyl Corp. Jet fuel compositions. 3,148,961, 9–15–64, Cl. 44—76.
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Dziergwa, Herbert, and L. Busch, to Patent-Treuhand-Gesellschaft fur Elektrische Gluhlampen m.b.H. Highly loaded low pressure mercury vapor discharge lamp. 3,160,-778, 12–8–64, Cl. 313—179.
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Edde, Herbert M., to Consolidated Foods Corp. Onion top and root trimmer. 3,122,189, 2–25–64, Cl. 146—83.
Eddins, Curtis H. Land leveler. 3,141,250, 7–21–64, Cl. 37—180.
Eddison, William B., and W. E. Erickson, to Thatcher Glass Mfg. Co. Label applying apparatus. 3,152,943, 10–13–64, Cl. 156—483.
Eddy, Gaines W.: *See*—
Plapp, Frederick W., Jr., and Eddy. 3,138,522.
Eddy Match Co. Ltd.: *See*—
Nielsen, Helmer B. 3,144,688.
Eddy, Roderick E., to Nalco Chemical Co. Treatment of Fourdrinier wire. 3,150,035, 9–22–64, Cl. 162—199.
Eddy, Theodore B., to Heli-Coil Corp. Jam clearing device. 3,134,939, 5–26–64, Cl. 318—475.
Ede, Frank E., and H. F. Dean. Steering control arrangement. 3,152,657, 10–13–64, Cl. 180—77.
Edelberg, Alan K., J. S. Kamborian, and J. S. Kamborian, Jr., said Edelberg assor. to said J. S. Kamborian. Fastener with sharp base. 3,154,825, 11–3–64, Cl. 24—73.
Edeleanu Gesellschaft m.b.H.: *See*—
Franz, Hermann, and Kunert. 3,117,923.
Franz, Hermann, and Kunert. 3,133,011.
Edell, Morton, to Hazel Bishop, Inc. Display package. 3,139,182, 6–30–64, Cl. 206—78.
Edelman, Abraham. Installation for selectively dispatching articles. 3,144,926, 8–18–64, Cl. 198—38.
Edelman, Frank H., to Radio Corp. of America. Method for electrodepositing nickel-iron alloys. 3,141,837, 7–21–64, Cl. 204—43.
Edelman, Irving, to Index Industries, Inc. Apparatus for forming a closed loop of tape threaded through a buckle. 3,150,804, 9–29–64, Cl. 223—49.
Edelson, Leon F., to United Electrodynamics, Inc. Amplitude controlled frequency modulated oscillator. 3,124,766, 3–10–64, Cl. 332—19.
Edelstein, Bertram W., to The Bertlo Co., Inc. Curtain wall. 3,140,763, 7–14–64, Cl. 189—34.
Edelstone, Sigmund E., and J. A. Liss, to Spra-Lok Corp. Self-locking snap-on container cap. 3,149,745, 9–22–64, Cl. 220—60.
Edelstone, Sigmund E., and A. E. Neely, to Spra-Lok Corp. Self-locking container cap. 3,149,746, 9–22–64, Cl. 220—60.
Edens, William L.: *See*—
Cardinal, Anthony J., Edens, and Van Dyk. 3,142,665.
Eder, Alfred: *See*—
Berresheim, Alexander, and Eder. 3,130,943.
Eder, Kurt, H. Nonnenmacher, and P. Schmulder, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Autothermal cracking of hydrocarbons to cracked gas rich in olefines. 3,161,696, 12–15–64, Cl. 260—683.
Eder, Theodor. Apparatus for separating liquid from a mixture of granular material and liquid. 3,135,690, 6–2–64, Cl. 210—389.
Ederer Corp.: *See*—
Smith, Robert L. 3,137,329.
Tallquist, Axel A. 3,119,499.
Edesess, Beatrice: *See*—
Wisotzky, Reuben, and Edesess. 3,152,002.
Edgar, Hugh T., to Bryant Chucking Grinder Co. Precision indexing device. 3,153,953, 10–27–64, Cl. 74—826.
Edgar, Robert F., to General Electric Co. Magnetic structure for producing magnetic fields in more than two gaps. 3,133-213, 5–12–64, Cl. 310—11.
Edgar, Samuel A., to Auburn Research Foundation. Stable coccidiosis immunization. 3,147,186, 9–1–64, Cl. 167—78.
Edgar, Violet J. Push lock turn screw. 3,155,412, 11–3–64, Cl. 292—341.17.
Edge, Dewey S., Sr., 12½% to E. Byrd. Automatic mailbox door actuating means and signal. 3,143,286, 8–4–64, Cl. 232—35.
Edge, Helen M.: *See*—
Edge, Walter S. 3,158,925.
Edge, Walter S., deceased, by H. M. Edge, heir, to Keystone Steel & Wire Co. Method of making a purlin or roof truss. 3,158,925, 12–1–64, Cl. 29—155.
Edgerly, Glenn E., Jr., to United Aircraft Corp. D.C. induction pump. 3,154,017, 10–27–64, Cl. 103—1.
Edgerton, Germeshausen & Grier, Inc.: *See*—
Barstow, Frederick E., and Lilliott. 3,152,215.
Coffey, Charles S. 3,144,565.
Edgerton, Harold E. 3,119,092.
Edgerton, Harold E., and Tredwell. 3,148,307.
Germeshausen, Kenneth J. 3,155,113.
Goncz, John H. 3,148,298.
Lagerquist, Roger E. 3,161,037.
Reinhardt, Nicholas. 3,158,508.
Rothstein, Jerome. 3,148,276.
Ward, William A. 3,141,983.
Edgerton, Harold E., to Edgerton, Germeshausen & Grier, Inc. Distance-measuring method and apparatus. 3,119,092, 1–21–64, Cl. 340—3.
Edgerton, Harold E., and J. Tredwell; said Edgerton assor. to Edgerton, Germeshausen & Grier, Inc. Flash lamp. 3,148,307, 9–8–64, Cl. 315—237.
Edgerton, William H., to Smith Kline & French Laboratories. Glyoxylylbenzophenone derivatives. 3,128,312, 4–7–64, Cl. 260—591.
Edgewater Steel Co.: *See*—
Bell, Davitt S. 3,133,464.
Edhouse, Ronald S. Picture record disc. 3,124,034, 3–10–64, Cl. 88—16.2.
Edie, David D.: *See*—
McCarthy, William P., and Edie. 3,139,853.
Edinger, Joseph Y.: *See*—
Jackson, Charles Q., Larmore, and Edinger. 3,122,750.
Edinger, Ladislav L.: *See*—
Halasz, Istvan, and Edinger. 3,117,570.
Edinger, Lester D., and C. A. Harvey, to Minneapolis-Honeywell Regulator Co. Dirigible craft control apparatus and method. 3,132,828, 5–12–64, Cl. 244—77.
Edison: *See*—
Ragazzini, Mario, and Gozzo. 3,141,871.
Editoriale Domus S.p.A.: *See*—
Moscarini, Flaviano. 3,160,463.
Edlund, Milton C.: *See*—
Breazeale, William M., Edlund, and Mong. 3,140,980.
Edlund, Milton C., to The Babcock & Wilcox Co. Nuclear reactor and method of operating same. 3,142,624, 7–28–64, Cl. 176—18.
Edman, James L., and J. A. Porath, to The Bendix Corp. Hydraulic shock absorbers with improved piston valve means. 3,133,615, 5–19–64, Cl. 188—100.
Edmands Co., The: *See*—
Blaisdell, Sidney B. 3,138,914.
Blaisdell, Sidney B., and Ensor. 3,147,580.
Edmark, Karl W., Jr. to Physio-Control Co., Inc. Apparatus for measuring blood pressure and heartbeat pulses. 3,156,-237, 11–10–64, Cl. 128—2.05.
Edmison, Thomas F. K. Flight path control system. 3,160,-369, 12–8–64, Cl. 244—77.
Edmon, Achille, to Societe de Constructions Mecaniques et Aeronautiques de la Mayenne. Cropping machine. 3,163,-069, 12–29–64, Cl. 83—303.
Edmonds, Albert V.: *See*—
Johnson, Elmer C., Edmonds, and May. 3,146,043.
Edmonds, Byron P.: *See*—
Dahms, James B., and Edmonds. 3,135,501.
Dahms, James B., and Edmonds. 3,148,000.
Edmonds, James T., Jr., and G. C. Ray, to Phillips Petroleum Co. Preparation of microporous filamentous articles. 3,132,194, 5–5–64, Cl. 264—37.
Edmonds, James T., Jr., and C. R. Scott, to Phillips Petroleum Co. Polycyclic alcohols as hypergolic fuels. 3,144,750, 8–18–64, Cl. 60—35.4.
Edmonds, Lee O., and J. A. Shotton, to Phillips Petroleum Co. Method of sealing plastic film. 3,158,520, 11–24–64, Cl. 156—307.
Edmonds, Robert H.: *See*—
Buyer, Edward, Edmonds, and Karp. 3,160,883.
Edmondson, Anthony J. K., to Minic Ltd. Tracks for electrically driven model vehicles. 3,140,825, 7–14–64, Cl. 238—10.
Edmondson, Richard, to The National Machinery Co. Bolt making machine with pointer mechanism. 3,146,471, 9–1–64, Cl. 10—11.
Edmonson, Daniel O. Sectional boat. 3,119,128, 1–28–64, Cl. 9—2.
Edmund, John R., to Westinghouse Air Brake Co. Fluid pressure brake apparatus with periodic acknowledgement type safety control. 3,136,585, 6–9–64, Cl. 303—19.
Edmund, John R., to Westinghouse Air Brake Co. Water cooled air cooler. 3,151,672, 10–6–64, Cl. 165—143.
Edmunds, Ivor, and J. A. Halliwell, to Vickers-Armstrongs (South Marston) Ltd. Machines for sorting articles. 3,125,230, 3–17–64, Cl. 214—11.
Edmunds, William H., to I-T-E Circuit Breaker Co. Selective mounting for circuit interrupters. 3,120,628, 2–4–64, Cl. 317—119.
Edmunds, William H., to I-T-E Circuit Breaker Co. Panelboard locking means. 3,150,290, 9–22–64, Cl. 317—119.
Edmunds, William H., to I-T-E Circuit Breaker Co. Adaptation of multipole circuit breaker for double current rating 3,152,287, 10–6–64, Cl. 317—46.
Edmunson, Tillson H. Chain saw driving sprocket assembly. 3,144,782, 8–18–64, Cl. 74—243.
Edmunson, Tillson H. Chain saw tooth. 3,155,129, 11–3–64, Cl. 143—135.
Ednalite Corp., The: *See*—
Sparer, Seno. 3,151,205.
Edogawa Kagaku Kogyo Kabushiki Kaisha: *See*—
Hiratsuka, Kizo, Yonemitsu, and Sugio. 3,150,930.
Edouard Dubied et Cie (Societe Anonyme): *See*—
Musy, Andre P. 3,136,190.
Edsall, William S., to The Chase-Shawmut Co. Fuse structures comprising multiple casings. 3,152,231, 10–6–64, Cl. 200—114.
Edsall, William S., to The Chase-Shawmut Co. Dead front fuse with improved terminal clamping means. 3,157,766, 11–17–64, Cl. 200—132.
Edson, Inc.: *See*—
Halterman, Vern E. 3,137,012.
Edson, William A., to General Electric Co. T.W.T. frequency changer utilizing induced generation of modulation signal. 3,128,433, 4–7–64, Cl. 328—25.
Edstam, John S.: *See*—
Bohner, Walter A., and Edstam. 3,151,663.

Edstrom, Nils H., to Telefonaktiebolaget L M Ericsson. Transfer circuit system for transferring information. 3,146,427, 8–25–64, Cl. 340—174.
Edström, Nils H., C.-E. W. Härlin, and A. E. Söderlund, to Telefonaktiebolaget L M Ericsson. Voice frequency signal receiver. 3,133,158, 5–12–64, Cl. 179—84.
Ed-U-Cards Mfg. Corp.: *See*—
La Prelle, Frank B. 3,154,863.
Educational Models Inc.: *See*—
Richards, Arthur J., and Veryser. 3,118,216.
Educators Mfg. Co.: *See*—
Courtwright, Robert M. 3,159,440.
Edward, Harold H.: *See*—
Newhouse, Vernon L., Bremer, and Edward. 3,123,720.
Edward, Robert M., Jr. Appliance switch stand. 3,141,937, 7–21–64, Cl. 200—61.58.
Edward Valves, Inc.: *See*—
Carr, Laurence H. 3,148,553.
Edwards, Alan R., to Commonwealth of Australia. Chromium-tantalum alloys. 3,138,456, 6–23–64, Cl. 75—176.
Edwards, Alan R., to Commonwealth of Australia. Chromium-tungsten-tantalum alloys. 3,138,457, 6–23–64, Cl. 75—176.
Edwards, Bryant, to Illinois Tool Works Inc. Container, and method and machinery for producing same. 3,121,916, 2–25–64, Cl. 18—19.
Edwards, Bryant, to Illinois Tool Works Inc. Method and apparatus for separating a flexible lid from a stack of lids. 3,122,267, 2–25–64, Cl. 221—1.
Edwards, Bryant, to Illinois Tool Works Inc. Nestable cup. 3,139,213, 6–30–64, Cl. 220—97.
Edwards, Bryant, to Illinois Tool Works, Inc. Container. 3,141,595, 7–21–64, Cl. 229—1.5.
Edwards, Bryant, to Illinois Tool Works, Inc. Method of making a container. 3,141,913, 7–21–64, Cl. 264—210.
Edwards, Charles E., to Dayco Corp. Vacuum cleaner connector. 3,127,227, 3–31–64, Cl. 339—15.
Edwards, Charles E., to Dayco Corp. Method and apparatus for forming foamed members. 3,152,361, 10–13–64, Cl. 18—4.
Edwards, Charles F., ¾ to D. and H. Tann, and S. P. Davis. Washer dryer drive mechanism. 3,129,601, 4–21–64, Cl. 74—368.
Edwards, Charles M., M. Kanes, P. F. Fischer, F. O. Geiger, M. S. Feder, and J. R. Farron, to United States of America, Navy. 3-D flight table. 3,158,018, 11–24–64, Cl. 73—1.
Edwards, Clarence K. and L. D. Hold-open, magnet actuated coupler for model railroad cars. 3,117,676, 1–14–64, Cl. 213—211.
Edwards Co., Inc.: *See*—
James, Norman D., Kreiner, and Long. 3,154,366.
Levine, Walter E. 3,139,565.
Edwards, David B. G.: *See*—
Kilburn, Tom, Edwards, and Aspinall. 3,123,707.
Edwards, David J. Vector airborne infrared firing error method and system. 3,120,360, 2–4–64, Cl. 244—14.
Edwards, Derrik R., to Pilkington Bros. Ltd. Toughened glass, pin type insulator. 3,141,063, 7–14–64, Cl. 174—212.
Edwards, Donald, to Woodwork Corp. Panel mounting means 3,117,353, 1–14–64, Cl. 20—92.
Edwards, Donald W., to E. I. du Pont de Nemours and Co. Process for severing fed strands and subsequent handling thereof. 3,149,515, 9–22–64, Cl. 83—24.
Edwards, Frank H., to United-Carr Fastener Corp. Mounting means for a tube socket. 3,142,526, 7–28–64, Cl. 339—126.
Edwards, Gayle D., and H. V. Moore, to Jefferson Chemical Co., Inc. Complex polyamide adducts. 3,133,941, 5–19–64, Cl. 260—404.5.
Edwards, George A., to General Motors Corp. High pressure helical worm seal. 3,116,931, 1–7–64, Cl. 277—165.
Edwards, George A., to General Motors Corp. Ball nut return guide. 3,143,896, 8–11–64, Cl. 74—459.
Edwards, George J., to General Electric Co. Electric lamp base. 3,131,986, 5–5–64, Cl. 339—146.
Edwards, Howard C. Abrasive materials handling draft inducer. 3,152,839, 10–13–64, Cl. 302—25.
Edwards, Hugh R., to W. A. Plummer. Method of assembling cabling in inflatable seamless tubing. 3,138,859, 6–30–64, Cl. 29—450.
Edwards, James D., to Borg-Warner Corp. Fabric drying machine with timer control. 3,161,481, 12–15–64, Cl. 34—45.
Edwards, James L., E. I. Rhoden, and P. T. Scott, to E. I. du Pont de Nemours and Co. Process for forming a slub yarn. 3,116,589, 1–7–64, Cl. 57—157.
Edwards, James W., and J. S. Hashman, to United States of America, Army. Method of preparation of ozone. 3,140,990, 7–14–64, Cl. 204—176.
Edwards, John.: *See*—
Bowers, Albert, and Edwards. 3,124,573.
Bowers, Albert, and Edwards. 3,144,449.
Bowers, Albert, and Edwards. 3,151,132.
Bowers, Albert, and Edwards. 3,155,695.
Bowers, Albert, Edwards, and Orr. 3,144,447.
Bowers, Albert, Edwards, and Zderic. 3,128,269.
Ringold, Howard J., Rosenkranz, and Edwards. 3,125,591.
Edwards, John, to Syntex Corp. Process for preparing 11-oximino Δ^5 steroids and products thereof. 3,147,250, 9–1–64, Cl. 260—239.55.
Edwards, John M.: *See*—
Williams, Kenneth T., and Edwards. 3,148,093.
Edwards, Kenneth F., and R. A. Vogel, Jr. Essex Wire Corp. Latch operated clutch with pump. 3,145,815, 8–25–64, Cl. 192—27.
Edwards, Lawrence D.: *See*—
Edwards, Clarence K. and L. D. 3,117,676.
Edwards, Lawrence J., to Callery Chemical Co. Preparation of trimethylborate. 3,128,299, 4–7–64, Cl. 260—462.
Edwards, Lawrence J., J. M. Criscione, and R. K. Pearson, to Callery Chemical Co. Preparation of decaborane. 3,156,530, 11–10–64, Cl. 23—204.
Edwards, Leonard M.: *See*—
Banks, Clarence K., and Edwards. 3,148,943.
Edwards, Leonard M., and H. W. Richter, to M & T Chemicals Inc. Process for detinning. 3,121,005, 2–11–64, Cl. 75—98.
Edwards, Marvin B.: *See*—
Hagemeyer, Hugh J., Jr., and Edwards. 3,125,558.
Hagemeyer, Hugh J., Jr., and Edwards. 3,143,537.
Hagemeyer, Hugh J., Jr., and Edwards. 3,153,027.
Edwards, Miles L. Heart valve with shielded sewing ring. 3,130,419, 4–28–64, Cl. 3—1.
Edwards, Norman E., and R. F. Stelzer, to Wagner Electric Corp. Brake operating mechanism. 3,158,069, 11–24–64, Cl. 92—51.
Edwards, O. M., Co., Inc.: *See*—
Hergonson, Robert W. 3,142,590.
Edwards, Ray C., to Allis-Chalmers Mfg. Co. Scraping and sealing traveling grate side walls. 3,160,266, 12–8–64, Cl. 198—230.
Edwards, Richard A., to SCM Corp. Listing machines. 3,142,441, 7–28–64, Cl. 235—60.
Edwards, Robert, and W. A. Wheatley, to Electronic Assistance Corp. Data collection and distribution system. 3,124,674, 3–10–64, Cl. 235—61.1.
Edwards, Robert E.: *See*—
Boyd, Merle R., and Edwards. 3,154,717.
Edwards, Robert L., to National Seating Co. Flexible handle. 3,145,050, 8–18–64, Cl. 297—183.
Edwards, Russell K. Three-dimensional property indicating device. 3,145,482, 8–25–64, Cl. 35—18.
Edwards, Theodoric B. Metadyne drive and control system for self-propelled vehicle. 3,158,219, 11–24–64, Cl. 180—6.5.
Edwards, Theodoric B., to United States of America, Army. Vehicle wheel suspension. 3,161,248, 12–15–64, Cl. 180—10.
Edwards, Thomas R., Jr. Computing caliper. 3,154,673, 10–27–64, Cl. 235—151.
Edwards, Walter M.: *See*—
Calkins, William H., and Edwards. 3,153,022.
Edwards, William H., and J. T. Finley. Fishing float. 3,137,872, 6–23–64, Cl. 9—8.3.
Edwards, William J., to The Singer Co. Sewing machine thread spool unwinder. 3,122,113, 2–25–64, Cl. 112—218.
Edwards, William J., to The Singer Co. Thread replenishing mechanism for lock stitch sewing machines. 3,163,137, 12–29–64, Cl. 112—181.
Edwards, William J., and W. C. Sockwell, to The Singer Co. Thread winding control mechanism for sewing machines. 3,154,035, 10–27–64, Cl. 112—184.
Edwards, William M., to Combustion Engineering, Inc. Hydraulic fluid return line air eliminator. 3,157,478, 11–17–64, Cl. 55—36.
Edwards, William R., and R. D. Wesselhoft, to Esso Research and Engineering Co. Production of phthalide. 3,128,284. 4–7–64, Cl. 260—343.3.
Edwards, William R., and R. D. Wesselhoft, to Esso Research and Engineering Co. Regeneration of fat acid extracts of tertiary olefins including chilling of the regenerated acid. 3,129,265, 4–14–64, Cl. 260—677.
Edwards, William R., R. D. Wesselhoft, and B. B. Williams, to Esso Research and Engineering Co. Recovery of tertiary isohexene by sulfuric acid extraction. 3,150,200, 9–22–64, Cl. 260—677.
Edwards, William R., and R. D. Wesselhoft, to Esso Research and Engineering Co. Extraction process. 3,150,201, 9–22–64, Cl. 260—677.
Eells, Samuel, Jr.: *See*—
Neff, Ralph W., and Eells. 3,146,931.
Efeian, Souren. Toothbrush kit. 3,139,094, 6–30–64, Cl. 132—84.
Effgen, Hans. Staple driving machine. 3,148,373, 9–15–64, Cl. 1—3.1.
Effinger, William L., Jr., and H. Struck, to The A. C. Gilbert Co. Soaring and gliding aircraft. 3,153,877, 10–27–64, Cl. 46—78.
Effner, Georg. Lid-lock for pressure vessels. 3,151,903, 10–6–64, Cl. 292—256.75.
Efimova, Galina V.: *See*—
Coolbach, Valter O., Raygorodskaia, and Efimova. 3,160,640.
Efstathiou, John: *See*—
Stickel, Herbert P., Samuels, Lorch, Efstathiou, and Kattlemann. 3,141,958.
Egan, Clark J., to California Research Corp. Process for the isomerization of alkyl benzenes in the presence of an iodide-containing compound. 3,120,569, 2–4–64, Cl. 260—668.
Egan, Edmond F., to Texaco Inc. Productivity well logging. 3,147,375, 9–1–64, Cl. 250—43.5.
Egan, Frank W., & Co.: *See*—
Russell, Alfred G. 3,134,654.

Egbert, Delbert W. Drag static wheel balancer. 3,139,757, 7–7–64, Cl. 73—457.
Egbert, Earl L., to General Motors Corp. Hydrodynamic torque transmitting device. 3,124,973, 3–17–64, Cl. 74—731.
Egbert, John T., to Combustion Engineering, Inc. Heat exchanger arrangement. 3,144,902, 8–18–64, Cl. 165—7.
Ege, Bendt C., to Midland-Ross Corp. Variable velocity constant exhaust system. 3,151,954, 10–6–64, Cl. 34—155.
Ege, Hans, to Underwriters Safety Device Co. Bi-metallic circuit breaker snap reed. 3,141,080, 7–14–64, Cl. 200—113.
Ege, Hans, to Underwriters Safety Device Co. Bi-metallic circuit breakers snap reed. 3,143,614, 8–4–64, Cl. 200—113.
Ege, Kurt: *See*—
Benz, Willi, and Ege. 3,151,002.
Ege, Sigmund, to Anaconda Wire and Cable Co. Moisture-free package. 3,128,135, 4–7–64, Cl. 312—31.
Ege, Sigmund, to Anaconda Wire and Cable Co. Method of forming a sector-conductor cable. 3,138,915, 6–30–64, Cl. 57—160.
Egee, Walter W., and E. R. Thomas, to Campbell Soup Co. Apparatus for deboning cooked poultry. 3,154,805, 11–3–64, Cl. 17—1.
Egerton, Harry S.: *See*—
Ellis, Charles W., III, Robinson, and Egerton. 3,117,745.
Egerton, Harry S., C. W. Ellis, III, and D. W. Robinson, Jr., to Kaman Aircraft Corp. Aircraft rotor-propeller. 3,134,444, 5–26–64, Cl. 170—160.1.
Egerton, Robert G., and J. N. Lancaster. Knitting machine. 3,162,028, 12–22–64, Cl. 66—151.
Eggebraaten, Vernon L., H. D. Romo, and K. Bendschneider, to The Boeing Co. Beta radiation backscatter gauge. 3,132,248, 5–5–64, Cl. 250—83.3.
Eggen, Raymond B. Apparatus for adding a controlled amount of lube oil to an engine. 3,139,896, 7–7–64, Cl. 137—353.
Eggenberger, Markus A., to General Electric Co. Emergency bearing oil supply for a decelerating shaft. 3,147,821, 9–8–64, Cl. 184—1.
Eggen, Ingmar B.: *See*—
Noznick, Peter P., Bundus, and Eggen. 3,126,283.
Eggenschwyler, Eduard A., to Ruti Machinery Works Ltd. Reed for looms. 3,122,174, 2–25–64, Cl. 139—192.
Egger, Edwin F. Routershaper. 3,140,640, 7–14–64, Cl. 90—16.
Egger, Ernest. Flexible connecting means. 3,143,365, 8–4–64, Cl. 287—12.
Egger, James C. Steering and water propulsion system for watercraft. 3,132,477, 5–12–64, Cl. 60—35.54.
Egger, Josef: *See*—
Tilse, Wilhelm, and Egger. 3,140,376.
Egger, Josef, to The United States Time Corp. Epoxy joined watch case. 3,156,086, 11–10–64, Cl. 58—88.
Eggers, Klaus H.: *See*—
Kealy, Joseph P., and Eggers. 3,119,683.
Eggers, Paul J. Device adapted to dispense either articles or fluent material. 3,126,125, 3–24–64, Cl. 221—96.
Eggers, Ralph E.: *See*—
Bloomquist, Arthur G., Eggers, and Gobel. 3,116,945.
Eggert, Joachim, and R. Hofmeister, to Voigtlander A. G. Clamping means for variable focal length projector objective lens. 3,138,060, 6–23–64, Cl. 88—24.
Eggert, John: *See*—
Von Wartburg. 3,156,564.
Eggert, Ralph H., to FMC Corp. High speed sorting apparatus. 3,139,965, 7–7–64, Cl. 198—31.
Eggert, Robert G., and W. T. Akers, to American Cyanamid Co. Animal feeds containing triazoles. 3,148,068, 9–8–64, Cl. 99—2.
Eggert, Walter S., Jr., to The Budd Co. Roof-to-sidewall connection for vehicles. 3,131,649, 5–5–64, Cl. 105—401.
Eggert, Walter S., Jr., to The Budd Co. Sideframe and window structure. 3,131,650 5–5–64, Cl. 105—401.
Eggert, Walter S., Jr., to The Budd Co. Floor-to-sidewall connection for vehicles. 3,151,573, 10–6–64, Cl. 105—401.
Eggert, Walter S., Jr., to The Budd Co. Vehicle roof structure. 3,159,089, 12–1–64, Cl. 98—10.
Eggert, Walter S., Jr., and D. L. Buchanan, to The Budd Co. Roof ventilation damper assembly. 3,122,982, 3–3–64, Cl. 98—13.
Eggertsen, Frank T., to Shell Oil Co. Separation process. 3,161,690, 12–15–64, Cl. 260—666.
Eggeton, Reginald C.: *See*—
Fry, William J. and F. J., and Eggeton. 3,152,340.
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Egli, Henry O. Gage block assembly fastening devices. 3,162,955, 12–29–64, Cl. 33—168.
Egli, Rudolf, to Inbega AG. Casting steel alloy having great tenacity and wear resistance. 3,144,326, 8–11–64, Cl. 75—126.
Egly, Richard S., and A. E. Neckar, to Commercial Solvents Corp. Ammonium nitrate-containing emulsion sensitizers for blasting agents. 3,161,551, 12–15–64, Cl. 149—46.
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Ehe, Albert L., to Multicup Automation Co., Inc. Apparatus for making multiple compartment paper trays. 3,149,545, 9–22–64, Cl. 93—60.
Ehinger, Eldon E. Toll computer assembly with cutter drum clutched to computer drum by presence of tape. 3,143,020, 8–4–64, Cl. 83—286.
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Ehmann, Werner, and K.-H. Kahrs, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of vinyl ester polymers and copolymers. 3,141,010, 7–14–64, Cl. 260—89.1.
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Ehrenspeck, Hermann W. Reflection antenna employing multiple director elements and multiple reflection of energy to effect increased gain. 3,122,745, 2–25–64, Cl. 343—819.
Ehrich, Felix F., to E. I. du Pont de Nemours and Co. Simultaneous preparation of linear quinacridones and quinacridonequinones. 3,148,075, 9–8–64, Cl. 106—288.
Ehrich, Felix F., to E. I. du Pont de Nemours and Co. Quinacridone pigment compositions. 3,160,510, 12–8–64, Cl. 106—288.
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Ehrlich, Karl F. Rotary pump. 3,139,833, 7–7–64, Cl. 103—120.
Ehrlich, Stanley L., to Raytheon Co. Linear radiating array having omnidirectional characteristics in an azimuthal plane. 3,135,944, 6–2–64, Cl. 340—9.
Ehrman, Edward F., and F. J. Sparber, to United States of America, Atomic Energy Commission. Electrical connector grounding apparatus. 3,136,593, 6–9–64, Cl. 339—222.
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Ehrreich, John E., and D. H. Avery, to Chomerics, Inc. Electrical shielding and sealing gasket. 3,140,342, 7–7–64, Cl. 174—35.

Ehrreich, John E., C. P. Fazio, and B. A. Nickerson, to W. R. Grace & Co. Polyethylene balloon. 3,149,017, 9–15–64, Cl. 161—36.
Ehrsam, Frederick. Waterproof match package. 3,123,205, 3–3–64, Cl. 206—33.
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Eichelberg, Henry L., and R. L. Thomson, to Basic Products Corp. Rotary retort. 3,152,795, 10–13–64, Cl. 263—32.
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Eichert, Edwin S., R. F. Procter, and J. Polsky, to Technitrol, Inc. Electrical component assemblage and casing therefor. 3,155,766, 11–3–64, Cl. 174—52.
Eichholtz, Konrad, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Composite reaction engine for aircraft with wide ranges of speed. 3,149,461, 9–22–64, Cl. 60—35.6.
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Eichholtz, Konrad, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Propulsive and lifting convertible jet engine unit. 3,154,916, 11–3–64, Cl. 60—35.54.
Eichholtz, Konrad. to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. V/stol aircraft with directional control nozzle. 3,162,397, 12–22–64, Cl. 244—12.
Eichhorn, Jacob, to The Dow Chemical Co. Flame-proof alkenyl aromatic polymers and method of making the same. 3,124,557, 3–10–64, Cl. 260—45.7.
Eichhorn, Jacob, to The Dow Chemical Co. Self-extinguishing urethane polymer compositions. 3,162,609, 12–22–64, Cl. 260—2.5.
Eichhorn, Robert M., and G. I. Addis, to Union Carbide Corp. Automatic plotting of X-ray diffraction pole figures. 3,117,-226, 1–7–64, Cl. 250—51.5.
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Eichorn, Roger H., to Xerox Corp. Sheet feed mechanism. 3,148,878, 9–15–64, Cl. 271—79.
Eichorn, Roger H., and W. G. Lewis, to Xerox Corp. Powder dispensing apparatus. 3,149,760, 9–22–64, Cl. 222—238.
Eichorn, Roger H., and R. F. Osborne, to Xerox Corp. Xerographic control apparatus. 3,152,757, 10–13–64, Cl. 235—91.
Eichorst, Herman H. Whiplash arrestor. 3,151,911, 10–6–64, Cl. 297—397.
Eichwald, Eric, and J. P. Coan, to Darby Food Corp. Impregnated filter means for tobacco articles. 3,144,024, 8–11–64, Cl. 131—208.
Eickelman, Eugene S. Headlamp carrier and adjuster. 3,133,705, 5–19–64, Cl. 240—60.
Eickemeyer, Daniel B., to Sinclair Research Inc. Lubricant composition. 3,121,691, 2–18–64, Cl. 252—51.5.
Eickemeyer, Daniel B., and J. E. Engelking, to Sinclair Research, Inc. Lubricant composition. 3,150,092, 9–22–64, Cl. 252—46.3.
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Eickerman, Herman H., Sr. Meat flavoring and tenderizing device and method. 3,150,982, 9–29–64, Cl. 99—107.
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Eickhoff, Louis. Coin actuated timing control device. 3,126,-996, 3–31–64, Cl. 194—84.
Eickhoff, Louis. Drop coin timing device. 3,154,182, 10–27–64, Cl. 194—1.
Eickmann, Karl. Control shaft mounting for fluid handling device. 3,136,260, 6–9–64, Cl. 103—121.
Eickmann, Karl. Device for damping vibrations, fluctuations of pressure and fluctuation of delivery volume or suction volume of rotary piston machines. 3,145,662, 8–25–64, Cl. 103—223.
Eickmann, Karl. Vane assembly in rotary fluid machines. 3,158,103, 11–24–64, Cl. 103—136.
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Eidus, William. Thermoelectric medical instrument. 3,133,-539, 5–19–64, Cl. 128—399
Eiermann, Henry. Single lever engine and transmission control. 3,117,465, 1–14–64, Cl. 74—472.
Eifert, Robert L., and B. M. Marks, to E. I. du Pont de Nemours and Co. Polymethacrolein derivatives. 3,118,860, 1–21–64, Cl. 260—73.
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Eigen, David, and R. W. Peer, to The Okonite Co. Receivers for the reception of electromagnetic waves of any desired frequency. 3,119,066, 1–21–64, Cl. 325—476.
Eigenmann, Gino L. Road marking devices. 3,155,564, 11–3–64, Cl. 156—575.
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Eikelberner, Fred S., deceased; V. L. Eikelberner, sole heir. Packing block. 3,126,207, 3–24–64, Cl. 277—64.
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Eiler, Harold, to The Pierce Governor Co., Inc. Automatic choke for small engines. 3,126,878, 3–31–64, Cl. 123—119.
Eilers, Howard F., to Paper Calmenson & Co. Surface hardening for hammermill hammers and method of forming the same. 3,118,199, 1–21–64, Cl. 22—204.
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Einfalt, Alfred, to Gebruder Einfalt Blechapielwarenfabrik. Toy runway. 3,117,395, 1–14–64, Cl. 46—116.
Einfalt, Alfred, to Gebruder Einfalt Blechspielwarenfabrik. Toy tracks. 3,135,068, 6–2–64, Cl. 46—202.
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Einsele, Theodor, and K. Ganzhorn, to International Business Machines Corp. Magnetic core adding device. Re. 25,518, 2–4–64, Cl. 235—168.
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Eisele, Julius, W. Federkiel, C. Schuster, R. Gehm, A. Tartter, F. Graser, W. Rohland, and E. Stoeckl, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. New azo dyestuffs. 3,154,533, 10–27–64, Cl. 260—162.
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Eiselstein, Herbert L., and J. K. Bell, to The International Nickel Co., Inc. Alloy characterized by controlled thermoelasticity at elevated temperatures. 3,157,495, 11–17–64, Cl. 75—134.
Eiselstein, Herbert L., and J. Gadbut, to The International Nickel Co., Inc. Matrix-stiffened alloy. 3,160,500, 12–8–64, Cl. 75—171.
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Eisenberg, Arnold J., to Nashua Corp. Gummed tape and tear strand dispensing apparatus. 3,157,552, 11–17–64, Cl. 156—436.
Eisenberg, Irwin W., to Phaostron Instrument and Electric Co. Meter relay system. 3,118,087, 1–14–64, Cl. 317—130.
Eisenberg, Marvin, to United States of America, Army. Flame spraying of oxidation-resistant, adherent coatings. 3,121,-643, 2–18–64, Cl. 117—105.2.
Eisenbraun, Allan A., to Allied Chemical Corp. 3,5-disubstituted-tetrahydro-4H-1,3,5-oxadiazin-4-ones. 3,136,763, 6–9–64, Cl. 260—244.
Eisenburger, Kuno, G. Hummelberg and J. Ritter, to EVG Entwicklungs-u. Verwertungs-Gesellschaft m.b.H. Multiple spot welding machine. 3,125,668, 3–17–64, Cl. 219—87.
Eisengrein, Robert H., to Seneca Falls Machine Co. Speed control system for electrically powered mechanism. 3,125,-714, 3–17–64, Cl. 318—454.
Eisengrein, Robert H., to Seneca Falls Machine Co. Machine tool control system. 3,136,936, 6–9–64, Cl. 318—162.
Eisengrein, Robert H., to Seneca Falls Machine Co. Fine and coarse positional servo system. 3,142,018, 7–21–64, Cl. 318—28.
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Eisenkraft, Bernard J. Hydrodynamic vibrative atomizer. 3,123,305, 3–3–64, Cl. 239—102.
Eisenlohr, Alfred, to General Electric Co. Controlled density heterogeneous material and article. 3,147,087, 9–1–64, Cl. 29—191.2.
Eisenman, Herbert C., to Minnesota Mining and Mfg. Co. Tape dispenser. 3,122,955, 3–3–64, Cl. 83—233.
Eisenmann, John L., to Diamond Alkali Co. Inhibition of isomerization of organic compounds. 3,139,460, 6–30–64, Cl. 260—666.5.
Eisenmann, John L., and R. L. Yamartino, to Diamond Alkali Co. Aromatic phosphite catalyst modifiers in the oxo process. 3,150,188, 9–22–64, Cl. 260—598.
Eisenmann, John L., and R. L. Yamartino, to Diamond Alkali Co. Preparation of ketones from epoxides. 3,151,167, 9–29–64, Cl. 260—586.
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Eisler, Joseph D., and D. Silverman, to Pan American Petroleum Corp., Velocity-matching seismic charge unit. 3,131,-633, 5–5–64, Cl. 102—21.6.
Eisler, Paul. Method of heating in vehicles. 3,132,228, 5–5–64, Cl. 219—20.
Eisler, Paul, to Technograph Printed Circuits Ltd. Electric resistance devices. 3,134,953, 5–26–64, Cl. 338—2.
Eisler, Paul. Storage batteries. 3,141,795, 7–21–64, Cl. 136—6.
Eisler, Paul. Method of making electrical heating and conducting devices. 3,149,406, 9–22–64, Cl. 29—155.5.
Eisner, Burton D., L. D. Sacre, and G. C. Kent, to American Photocopy Equipment Co. Photocopy machine. 3,148,611, 9–15–64, Cl. 95—77.5.
Eisner, Burton D., G. C. Kent, E. A. Larson, and M. L. Sugarman, Jr., to American Photocopy Equipment Co. Fixing unit for photocopy machines. 3,159,735, 12–1–64, Cl. 219—347.
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Ekberg, Torstan W.: *See*—
Alliegro, Richard A., and Ekberg. 3,133,887.
Ekco-Containers, Inc.: *See*—
Griese, Elmer W., Jr. 3,151,765.
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O'Brien, Robert J., and Vold. 3,147,724.
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Hoffman, Alfred R. 3,146,486.
Kennedy, Richard T. 3,143,759.
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Ekholm, Steven T., and T. G. Burns. Roofing. 3,137,927, 6–24–64, Cl. 50—243.
Eklov, David, to Svenska Relafabriken Abn Ab. Automatically controlled two-way amplifier. 3,125,648, 3–17–64, Cl. 179—170.2.
Eklund, Knut, to Allmänna Svenska Elektriska Aktiebolaget. Wheels for vehicles running on rail tracks. 3,127,212, 3–31–64, Cl. 295—21.
Eklund, Walter M.: *See*—
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Ekman, Harald: *See*—
Birch-Iensen, Ake, and Ekman. 3,161,480.
Ekrud, Anders L., to Sandvikens Jernverks Aktiebolag. Chain saw machine. 3,124,177, 3–10–64, Cl. 143—32.
Eksergian, Carolus L., to Kelsey-Hayes Co. Brake pressure proportioning device. 3,143,379, 8–4–64, Cl. 303—24.
Eksergian, Carolus L., to Kelsey-Hayes Co. Spot type disc brake. 3,150,745, 9–29–64, Cl. 188—73.
Ekstam, Martin R., and K. G. E. Johansson, to Simrishamns Gjuteri AB. Systems for scalding slaughtered animals. 3,135,016, 6–2–64, Cl. 17—15.
Ekstrand, Jerome D. Deep water fishing bobber. 3,154,878, 11–3–64, Cl. 43—44.88.

Ekstrom, Robert O., to Owens-Illinois Glass Co. Mold Polishing machine. 3,121,296, 2–18–64, Cl. 51—34.
Ekstroms, A., Maskinaffar, Aktiebolaget: *See*—
Jakobson, Karl F. O. 3,147,883.
Ekvall, Harold N., J. M. Warner, and A. T. Flower. Longitudinally divided hinged insulating connector covers. 3,147,338, 9–1–64, Cl. 174—138.
Elam, Charles F., and E. R. Stettner, to General Motors Corp. Multiple carburetor air flow measuring device. 3,138,959, 6–30–64, Cl. 73—401.
Elam, Daniel W. Still having thin resinous heat transfer surfaces. 3,161,574, 12–15–64, Cl. 202—236.
Elam, Edward U.: *See*—
Martin, James C., and Elam. 3,125,569.
Elam, Edward U., to Eastman Kodak Co. Method for preparing tetraalkyl-3-oxoglutarimides. 3,140,287, 7–7–64, Cl. 260—281.
Elam, Edward U., to Eastman Kodak Co. Unsaturated β-lactones and method of preparing them. 3,161,656, 12–15–64, Cl. 260—343.9.
Elam, Edward U., and J. E. Poe, to Eastman Kodak Co. 4-aminomethylcyclohexanemethonol. 3,137,727, 6–16–64, Cl. 260—563.
Elam, Edward U., and R. H. Hasek, to Eastman Kodak Co. Poly-(alkoxy silanes) and their process of preparation. 3,143,561, 8–4–64, Cl. 260—448.8.
Elam, Edward U., and J. C. Martin, to Eastman Kodak Co. 3,3′ - (2,2,4,4 - tetraalkylcyclobutane-1,3-dioxy) bispropionic acid. 3,157,696, 11–17–64, Cl. 260—514.
Elam, Edward U., and J. C. Martin, to Eastman Kodak Co. Preparation of carboxylic acids by the hydrogenation of gamma-lactones. 3,161,674, 12–15–64, Cl. 260—540.
Elam, William B., to American Can Co. Container body. 3,146,930, 9–1–64, Cl. 229—4.5.
Elam, William B., to American Can Co. Method of making a fluid-tight container body and product thereof. 3,157,336, 11–17–64, Cl. 229—4.5.
Elam, William B., to American Can Co. Helically wound fluid-tight container. 3,157,337, 11–17–64, Cl. 229—4.5.
Eland, Robert C. A., to Standard Coil Products Co. Inc. Television FM tuner converter. 3,135,922, 6–2–64, Cl. 325—461.
Elarde, Vito D., to Amphenol-Borg Electronics Corp. Electronic circuit boards with weldable terminals. 3,129,280, 4–14–64, Cl. 174—68.5.
Elarde, Vito D., to Amphenol-Borg Electronics Corp. Electronic circuit module with weldable terminals. 3,151,278, 9–29–64, Cl. 317—101.
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Gardner, Donald H. 3,152,565.
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Nagel, Robert I., and Heenan. 3,119,894.
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Gordon, Herman. 3,148,929.
Travis, Lawrence R. 3,142,891.
Elconin, Richard C.: *See*—
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Elder, Bruce: *See*—
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Elder, John H., Jr. Sewing kit. 3,130,882, 4–28–64, Cl. 223—107.
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Elder, Max E., C. Moore, and W. F. Tousignant, to The Dow Chemical Co. Removing phenols from aqueous media. 3,145,167, 8–18–64, Cl. 210—41.
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Eldh, John A. D., and G. V. Gustafsson. Means for igniting an igniter primer. 3,124,075, 3–10–64, Cl. 102—86.5.
Eldib, Ibrahim A., H. Bieber, C. E. Adams, G. P. Hamner, and C. N. Kimberlin, Jr., to Esso Research and Engineering Co. Deashing of residua. 3,153,623, 10–20–64, Cl. 204—184.
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Eldred, Fred H., to Western Instant Products, Inc. Method of making soluble coffee tablets. 3,121,635, 2–18–64, Cl. 99—66.
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Eldridge, Donald F., to Ampex Corp. Magnetic head assembly. 3,140,361, 7–7–64, Cl. 179—100.2.
Eldridge, Donald F., and C. D. Posey, to Ampex Corp. Unidirectional tape winding apparatus. 3,134,551, 5–26–64, Cl. 242—55.18.
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Duddy, Joseph C. 3,120,457.
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Duddy, Joeph C., and Consolloy. 3,132,973.
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Meltzer, Theodore H., and Strauss. 3,124,547.
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Electrokinetics Corp.: *See*—
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Boren, Karl G., and Cronelid. 3,137,147.
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Nilsson, Bengt E. 3,150,403.
Ohlson, Bengt E. 3,153,251.
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Irazoqui, Carlos A. 3,156,052.

Electro-Mechanical Instrument Co.: *See*—
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Electro-Mechanical Research, Inc.: *See*—
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Brechling, George E. 3,158,822.
Buck, Edwin H. 3,122,715.
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Germain, Lloyd M. 3,140,477.
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Electrostar G.m.b.H., Firma: *See*—
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Electro-Tec Corp.: *See*—
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Huffer, Robert L. 3,134,193.

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Electronic Associates Inc.: *See*—
Gorrell, John E. 3,161,455.
Harries, Wolfgang. 3,133,242.
Patmore, James R. 3,124,794.
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Sanders, James W., and Patmore. 3,161,858.
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Rau, Richard C. 3,152,597.
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White, Roby B. 3,118,597.
White, Roby B. 3,121,435.
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Electronic Communications, Inc.: *See*—
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Electronic Engineering Co. of California: *See*—
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Swearingen, Judson S. 3,146,604.

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Elenbaas, Herman. Sanitary tank spray washer attachment. 3,117,584, 1–14–64, Cl. 134—168.

Elenburg, Cecil L., to W. E. Martin. Flexibly suspended scraper receptacle. 3,138,883, 6–30–64, Cl. 37—124.

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Elger, Gerd, and E. Roth, to Schweizerische Lokomotiv- und Maschinenfabrik. Internal combustion engines. 3,116,724, 1–7–64, Cl. 123—55.

Elger, Ronald J., P. Billen, W. Vom Dorp, and G. Buse, to The Loewy Enginering Co., Ltd., and Mannesmann-Meer A.G. Metal extrusion press with rotary container. 3,156,359, 11–10–64, Cl. 207—1.

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Hitchings, George H., Elion, and Mackay. 3,149,111.

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Elkins, Lloyd E., to Pan American Petroleum Corp. Method of fracturing formations. 3,139,139, 6–30–64, Cl. 166—42.
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Elks, Joseph, J. F. Oughton, and L. Stephenson, to Glaxco Group Ltd. Δ1,3,5(10),9(11) pregnatetraene-3,20-diones and process for the production thereof. 3,130,212, 4–21–64, Cl. 260—397.45.
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Ellard, Jack, R. G. Tarrant, and F. N. Rushton, to Washington Aluminum Co., Inc. Ribbed panel assembly. 3,145,810, 8–25–64, Cl. 189—34.
Ellard, James A., and W. H. Yanko, to Monsanto Co. Stabilization of organic fluids against radiation decomposition and systems employing same. 3,152,961, 10–13–64, Cl. 176—38.
Elle, Bruce L., D. P. Reinhardt, and A. P. Di Fulvio, to Eastman Kodak Co. Intermittent drive control device. 3,132-528, 5–12–64, Cl. 74—125.
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Ellerbe, Edward B.: *See*—
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Ellerbeck, Grant C., to Friden, Inc. Extended square root mechanism for a square root calculating machine. 3,159,-341, 12–1–64, Cl. 235—63.
Ellerbrock, Harry H.: *See*—
Biedenstein, Vincent G., Ditto, and Ellerbrock. 3,163,317.
Ellermann, Wilhelm: *See*—
Wirth, Thomas, Ellermann, and Hartmann. 3,143,767.
Ellern, Herbert, to Universal Match Corp. Pyrotechnical devices and methods of making the same. 3,120,184, 2–4–64, Cl. 102—37.8.
Ellert, Henry G.: *See*—
Kimberlin, Charles N., Jr., Ellert, and Merrill. 3,142,-633.
Ellestad, Gerhard A. Necktie holder. 3,151,371, 10–6–64, Cl. 24—56.
Ellicott Brothers (London) Ltd.: *See*—
Craske, William J. 3,132,269.
Ellicott Machine Corp.: *See*—
Kaufmann, Carl P. 3,125,819.
Von Bolhar, Edgar. 3,146,537.
Elligson, Daniel M.: *See*—
Riley, Robert H., Jr., and Elligson. 3,133,450.
Ellin, Robert I., D. E. Easterday, and A. A. Kondritzer, to United States of America, Army. Process for preparing methyl pyridinium 2 aldoxime chloride. 3,140,289, 7–7–64, Cl. 260—296.
Ellinger, Don C., to Downing Box Co. Method of applying covers to commodity packed trays. 3,138,905, 6–30–64, Cl. 53—47.
Ellingsworth, Walton M., Jr., and Q. B. Farmer, to Lockheed Aircraft Corp. Cam controlled valve. 3,132,826, 5–12–64, Cl. 244—42.
Elliot Enterprises, Inc.: *See*—
Mallinckrodt, George E. 3,116,932.
Elliott, Albert M., to Eastern Stainless Steel Corp. Automatic sheet polishing machine. 3,126,564, 3–31–64, Cl. 15—102.
Elliott Brothers (London) Ltd.: *See*—
Howard, Ronald W., and Baritrop. 3,126,736.
Namenyi-Katz, Laszlo. 3,141,625.
Elliott, Bryan S.: *See*—
Sauvage, John E., and Elliott. 3,149,368.
Sauvage, John E., and Elliott. 3,149,370.
Elliott, Charles D., R. F. Hackney, and L. C. La Duke, to Cabin Crafts, Inc. Portable machine for tufting cut pile. 3,144,844, 8–18–64, Cl. 112—80.
Elliott, Charles I., to C. I. Elliott Corp. Method of making corrugated cartons and blanks therefor. 3,137,217, 6–16–64, Cl. 93—36.
Elliott, Charles I., to C. I. Elliott Corp. Devices for cutting and creasing corrugated carton blanks. 3,137,218, 6–16–64, Cl. 93—58.3.
Elliott, Charles I., Corp.: *See*—
Elliott, Charles I. 3,137,217.
Elliott, Charles I. 3,137,218.
Elliott, David D., and F. S. Mozer, to Lockheed Aircraft Corp. Logarithmic Pulse-rate circuit. 3,160,754, 12–8–64, Cl. 250—83.6.
Elliott, David G.: *See*—
Webb, James E. 3,158,764.
Elliott, Edward J.: *See*—
Gallagher, Gerald T., and Elliott. 3,148,019.
Elliott, Edward R., to C. A. Parsons & Co. Ltd. Fuel elements for nuclear reactors. 3,137,637, 6–16–64, Cl. 176—78.
Elliott, Eugene W., and K. E. Schaefer, to Chicago Aerial Industries, Inc. Cassette mechanism. 3,143,950, 8–11–64, Cl. 95—89.
Elliott, George. Bi-stable relay circuit. 3,159,773, 12–1–64, Cl. 317—154.
Elliott, George A.: *See*—
Datin, Richard C., and Elliott. 3,136,821.
Elliott, George A., and W. P. Moore, Jr., to Allied Chemical Corp. Extractive distillation of hydrazine with 1,2,6-hexanetriol. 3,133,870, 5–19–64, Cl. 202—39.5.
Elliott, George D. Pocket comb with foldable teeth. 3,147,-758, 9–8–64, Cl. 132—151.
Elliott, James O.: *See*—
Sones, William L., Elliott, and Neyhouse. 3,152,463.
Elliott, James O., G. A. Neyhouse, and W. L. Sones, to General Motors Corp. Clothes washing machine and control means therefor. 3,152,462, 10–13–64, Cl. 68—12.
Elliott, John C., to Lor Corp. Metal surfacing method. 3,136,656, 6–9–64, Cl. 117—127.
Elliott, Joseph M.: *See*—
Horsley, William D., Richardson, and Elliott. 3,119,033.
Elliott, Louis J., to Planautics Corp. Rotary switch. 3,140,-366, 7–7–64, Cl. 200—24.
Elliott, Lynn T., and R. G. Hune, said Hune assor. to E-I-M Co., Inc. Automatic control system. 3,131,714, 5–5–64, Cl. 137—460.
Elliott, Morris A. Process and product for veneer wall and floor coverings. 3,139,372, 6–30–64, Cl. 161—164.
Elliott, Myron A., to United States of America, Navy. Pneumatically generated hydrostatic pressure simulation. 3,159,995, 12–8–64, Cl. 73—4.
Elliott, Reed O., and K. A. Gschneidner, Jr., to United States of America, Atomic Energy Commission. Plutonium alloys containing controlled amounts of plutonium allotropes obtained by application of high pressures. 3,162,527, 12–22–64, Cl. 75—122.5.
Elliott, Richard M., and R. M. Tremblay, to United Shoe Machinery Corp. Rivet setting tools. 3,154,210, 10–27–64, Cl. 218—42.
Elliott, Robert A.: *See*—
MacFarlane, John O., Elliott, and Hosley. 3,132,073.
Elliott, Robert A., to The Bendix Corp. Hydraulic device. 3,140,126, 7–7–64, Cl. 303—84.
Elliott, Robert H. Locking differential. 3,131,578, 5–55–64, Cl. 74—710.5.
Elliott, Robert H. Differential structure. 3,131,579, 5–5–64, Cl. 74—710.5.
Elliott, Robert J.: *See*—
Green, Daniel M., Kohnle, and Elliott. 3,134,720.
Elliott, Stanley B., to Ferro Corp. Powdered metal compositions and method. 3,120,698, 2–11–64, Cl. 29—182.3.
Elliott, Stanley B. Apparatus for visual interpretations of electrical currents. 3,163,078, 12–29–64, Cl. 84—464.
Elliott, Thomas J., and A. J. Staines, to Harris-Intertype Corp. Sheet-gripper sucker. 3,154,306, 10–27–64, Cl. 271—26.
Ellis, Albert L., to Briggs, Castling & Kelly. Disposable douche syringe and bag. 3,144,866, 8–18–64, Cl. 128—232.
Ellis, Belvin B.: *See*—
Burkhardt, Charles E., and Ellis. 3,153,215.
Ellis, Belvin B., to Westinghouse Electric Corp. Plural part transformer core having joints divided between the sides of the core. 3,154,758, 10–27–64, Cl. 336—211.
Ellis, Bernard: *See*—
Bernstein, Ursula J. H., Ducker, and Petrow. 3,154,542.
Burn, Derek, Ellis, and Petrow. 3,160,643.
Cooley, George, Ellis, and Petrow. 3,153,060.
Ellis, Bernard, D. Burn, and V. Petrow, to The British Drug Houses Ltd. 3-enol ethers of 2-hydroxymethyl-3-oxo-5α-steroids and process for preparing same. 3,155,692, 11–3–64, Cl. 260—297.4.
Ellis, Charles A., to Glass-Tite Industries, Inc. Mercury switch construction. 3,122,621, 2–25–64, Cl. 200—152.
Ellis, Charles R., and R. C. McClure, to General Electric Co. Coupling grid means for grounded grid amplifier. 3,155,-918, 11–3–64, Cl. 330—159.
Ellis, Charles W.: *See*—
Childers, Eugene, Ellis, and Ryan. 3,125,408.
Egerton, Harry S., Ellis, and Robinson. 3,134,444.
Ellis, Charles W., III, D. W. Robinson, Jr., and H. S. Egerton, to Kaman Aircraft Corp. VTOL/STOL aircraft. 3,117,745, 1–14–64, Cl. 244—7.
Ellis, David H., to Rixson Inc. Door closer mechanism. 3,135,991, 6–9–64, Cl. 16—62.
Ellis Fluid Dynamics Corp.: *See*—
Karbowniczek, Stanley. 3,131,921.
Ellis, George M. Pole fitting for clothes hanger rack. 3,144,-946, 8–18–64, Cl. 211—182.
Ellis, John H., to Pyramid Truck Attachments, Inc. Dump truck unloading and spreading mechanism. 3,125,345, 3–17–64, Cl. 275—8.

Ellis, John R. B., to California Research Corp. Particulate solid sampling device. 3,129,590, 4–21–64, Cl. 73—424.
Ellis, Francis R., and J. D. McVay. Fingernail coating device. 3,130,734, 4–28–64, Cl. 132—74.5.
Ellis, Fred K.: *See*—
Beiter, Rudolf E., and Ellis. 3,131,624.
Ellis, Fredrick, and M. A. Thorsteinson. Machine for extruding hollow cored concrete sections. 3,159,897, 12–8–64, Cl. 25—41.
Ellis, Herbert B., to Reliquefier Corp. Apparatus for storing and shipping perishable material. 3,153,917, 10–27–64, Cl. 62—413.
Ellis, Marvin G., and P. P. Nowosielski, to General Electric Co. Hinge construction. 3,150,659, 9–29–64, Cl. 126—194.
Ellis, Nicholas D., to Anheuser-Busch, Inc. Carrying means for cartons. 3,140,814, 7–14–64, Cl. 229—52.
Ellis, Robert. Figurine and means for animating same. 3,143,826, 8–11–64, Cl. 46—240.
Ellis, Robert G., to Atlas Pacific Engineering Co. Chuck assembly. 3,150,765, 9–29–64, Cl. 198—131.
Ellis, Robert M., and R. P. Neeb, to Rotolite Corp. Gaseous photo-developing apparatus. 3,122,981, 3–3–64, Cl. 95—94.
Ellis, Roy T., and S. A. Denman, said Denman assor. to said Ellis. Safety deposit box lock. 3,127,759, 4–7–64, Cl. 70—339.
Ellis, Roy T., and S. A. Denman; said Denman assor to said Ellis. Safe deposit box lock. 3,157,043, 11–17–64, Cl. 70—339.
Ellis, Stanley H., and H. W. Herring to United Aircraft Corp. Turbo-ramjet configuration. 3,153,904, 10–27–64, Cl. 60—35.6.
Ellis, Thomas E., and A. A. Jorgensen, to General Dynamics Corp. Tone detecting circuitry. 3,151,219, 9–29–64, Cl. 179—18.
Ellis, William A. Quick release electrical connector. 3,118,-713, 1–21–64, Cl. 339—12.
Ellison, James O.: *See*—
Griffith, Thomas B. 3,154,347.
Ellison, Luther A. Link for crawler type tractor tread. 3,123,411, 3–3–64, Cl. 305—50
Ellison, Lynn E.: *See*—
Rahme, Habib S., and Ellison. 3,140,599.
Ellison, Michael C., to United States of America, Navy. Simulated landing signal apparatus. 3,127,685, 4–7–64, Cl. 35—12.
Ellison, Michael C., to Graphic Controls Corp. Recording materials and their manufacture. 3,158,506, 11–24–64, Cl. 117—216.
Ellison, Theodore, to Smith Kline & French Laboratories. Animal feed compositions and methods for their administration. 3,134 676, 5–26–64, Cl. 99—2.
Elliston, Edward E. Iron support. 3,127,141, 3–31–64, Cl. 248—117.6.
Ellman, George L., to The Dow Chemical Co. Sulfhydryl tests and compounds therefor. 3,119,668, 1–28–64, Cl. 23—230.
Ellms, Robert W.: *See*—
Miller, Leon F., and Ellms. 3,156,958.
Ellner, Edwin, to Consolidated Electronics Industries Corp. Electric motor. 3,138,727, 6–23–64, Cl. 310—40.
Ellner, Sidney, and R. W. Marx, to Ultra Dynamics Corp., Elenite Division. Apparatus for ultraviolet irradiation of fluids. 3,138,708, 6–23–64, Cl. 250—46.
Ells, Pritchard P.: *See*—
Forrester, Robert A., and Ells. 3,118,844.
Ellsworth, Rex C. Saddle construction. 3,157,976, 11–24–64, Cl. 54—44.
Ellwood, Walter B., to Bell Telephone Laboratories, Inc. Sealed reed switch. 3,125,650, 3–17–64, Cl. 200—87.
Ellwood, Walter B., to Bell Telephone Laboratories, Inc. Magnetically controlled switching devices with non-destructive readout. 3,134,908, 5–26–64, Cl. 307—88.
Elm Coated Fabrics Co., Inc.: *See*—
Mittman, Emanuel. 3,129,448.
Takai, Unokichi. 3,141,051.
Elm Research Laboratories, Inc.: *See*—
Howry, Douglass H. 3,140,600.
Elmeg Elektro-Mechanik G.m.b.H.: *See*—
Krebsdzio, Horst. 3,122,315.
Krebsdzio, Horst. 3,131,861.
Elmen, Gustaf W., and E. A. Gaugler. Toroidal transformer having a core of closed laminations with fluid and non-fluid insulation therebetween. 3,132,316, 5–5–64, Cl. 336—94.
Elmen, Gustaf W., and E. A. Gaugler. Magnetic amplifier. 3,153,764, 10–20–64, Cl. 330—8.
Elmendorf, Armin. High speed veneering. 3,160,543, 12–8–64, Cl. 156—306.
Elmer, Thomas H., to Corning Glass Works. Method of improving the infrared transmittance of high silica glass. 3,149,946, 9–22–64, Cl. 65—32.
Elmes, Robert T.: *See*—
Chilman, John A., and Elmes. 3,149,678.
Elmes, Robert T., and A. H. Lane, to Dowty Rotol Ltd. Variable pitch propellers. 3,143,175, 8–4–64, Cl. 170—160.32.
Elmic, Inc.: *See*—
Stefanov, Boris. 3,142,121.
Elmlinger, Frank G., to Sherry Griswold Foundation d.b.a. Electronic Technical Institute. Digital computer theory training machine. 3,162,960, 12–29–64. Cl. 35—30.
Elmore, Austin E., ½ to L. P. Smoot, and ½ to G. H. Morehouse. Apparatus for reducing materials. 3,139,917, 7–7–64, Cl. 146—68.
Elmore, Frederick W. Pressure cleaning apparatus. 3,140,-050, 7–7–64, Cl. 239—143.
Elmore, John F. Electric guitar. 3,163,073, 12–29–64, Cl. 84—312.
Elms, James C.: *See*—
Knutson, Roy G., and Elms. 3,126,542.
Elmwood Liquid Products Inc.: *See*—
Steenhagen, Gerrit. 3,150,597.
Eloranta, Vaito K.: *See*—
Buckley, William R., Eloranta, and Lindquist. 3,147,688.
Eloranta, Vaito K., to Polaroid Corp. Photographic processing apparatus for dispensing and distributing liquid. 3,139,-019, 6–30–64, Cl. 95—89.
Eloranta, Vaito K., to Polaroid Corp. Photographic apparatus. 3,152,530, 10–13–64, Cl. 95—13.
Elow, David I. Coffee maker. 3,137,228, 6–16–64, Cl. 99—287.
Elowe, Louis N., and G. J. Jackson, Jr., to American Cyanamid Co. Chewable hematinic vitamin tablet. 3,125,491, 3–17–64, Cl. 167—82.
Elox Corp. of Michigan: *See*—
Lobur, Walter. 3,123,740.
Webb, Robert S. Re. 25,542.
Webb, Robert S. Re. 25,580.
Webb, Robert S. 3,120,619.
Webb, Robert S. 3,138,690.
Webb, Robert S. 3,158,728.
Eloy, Philippe R., to Laboratories Torande. New lytic enzyme and preparation thereof. 3,124,517, 3–10–64, Cl. 195—66.
El Paso Natural Gas Products Co.: *See*—
Cooper, Carlton K., and Speight. 3,140,701.
Gerald, Curtis F. 3,154,382.
Elpern, Bill, to Sterling Drug Inc. 1-teitiary-amino-1-(monocarbocydic aryl)-*a*-teitiary-amino-2-aza-1-alkenes and their preparation. 3,125,573, 3–17–64, Cl. 260—247.5.
Elpern, Bill, to Sterling Drug Inc. 1,2-bis(substituted phenyl)-3-tertiary-amino-1-propanols. 3,161,646, 12–15–64, Cl. 260—294.7.
Elphee, Leon E., to Portage Machine Co. Separator unit for injection cylinder. 3,156,013, 11–10–64, Cl. 18—30.
Elrick Industries, Inc.: *See*—
Robertson, Elmer W. 3,127,916.
Robertson, Elmer W. 3,162,901.
Elsas, Norman E. Apparatus for processing cinematographic film. 3,124,052, 3–10–64, Cl. 95—100.
Elsasser, William A. Segmented arch wire bracket. 3,157,-949, 11–24–64, Cl. 32—14.
Elsbett, Ludwig, to Maschinenfabrik Augsburg-Nurnberg AG. Engine supercharging. 3,146,764, 9–1–64, Cl. 123—32.
Else, Harry C. Orbiting metal cutter. 3,130,621, 4–28–64, Cl. 83—471.
Else, Inc.: *See*—
Tyroler, Else E. 3,143,741.
Else, Robert K., and L. J. Meyer, to Automatic Electric Laboratories, Inc. Reed relay circuit. 3,160,714, 12–8–64, Cl. 179—18.
Elsen, Reinhold. Multi-step press. 3,150,438, 9–29–64, Cl. 29—34.
Elsener, Anton: *See*—
Bosshard, Han H., Elsener, Wirsching, and Zollinger. 3,137,671.
Elseroad, David C. Baseball game apparatus including movable target panels at which a baseball is thrown by the player. 3,133,733, 5–19–64, Cl. 273—88.
Elsey, Cleo A. Convertible motor valve. 3,123,091, 3–3–64, Cl. 137—270.
Elslager, Edward F.: *See*—
Werbel, Leslie M., and Elslager. 3,136,769.
Elslager, Edward F., D. F. Worth, D. B. Capps, and L. M. Werbel, to Parke, Davis & Co. Azo compounds and methods for producing same. 3,139,421, 6–30–64, Cl. 206—154.
Elslager, Edward F., and D. F. Worth, to Parke, Davis & Co. Pyrimethamine salt with fluorescein. 3,161,641, 12–15–64, Cl. 260—256.4.
Elsner, Edwin C., to Aeroquip Corp. Webbing ring for cargo sling. 3,116,948, 1–7–64, Cl. 294—74.
Elsner, Hans: *See*—
Behr, Walther, and Elsner. 3,137,381.
Meyer, Werner, and Elsner. 3,158,419.
Elsom, Floyd: *See*—
Jewell, Randolph J., Robbins, Gross, and Elsom. 3,153,-519.
Elster, Donald W.: *See*—
Elster, Raymond L., Jr. and D.W., and Rodden. 3,132,032.
Elster, Raymond L., Jr. and D. W., and J. R. Rodden. Composition for pasting hides. 3,132,032, 5–5–64, Cl. 106—15.
Elston, Alvin W., and G. A. Vincent, to Minneapolis-Honeywell Regulator Co. Control apparatus. 3,127,527, 3–31–64, Cl. 310—8.6
Elston, Arthur L., to Kof-E-Brake Donut Co., Inc. Cooking devices. 3,124,058, 3–10–64, Cl. 99—354.
Elston, James W., Jr.: *See*—
Wilson, Charles P., Jr., Ciapetta, and Elston. 3,129,189.
Wilson, Charles P., Jr., Ciapetta, and Elston. 3,131,156.

Elston, Lewis W., to Photo-Engravers Research, Inc. Composition and process for powderless etching. 3,148,100, 9–8–64, Cl. 156—14.
Elston, Robert L. Automatic musical instructor. 3,124,028, 3–10–64. Cl. 84—478.
Elston, Thomas J. Automobile safety belt anchor construction. 3,123,402, 3–3–64, Cl. 297—385.
Eltex Chemical Corp.: *See*—
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Mattimoe, Paul T., Elton, and Hofmann. 3,130,103.
Eltonhead, Robert W., to Crompton & Knowles Corp. Azopyrazolone dyes. 3,123,596, 3–3–64, Cl. 260—162.
Eltra Corp.: *See*—
Bonnell, Alfred, Jr., and Rossiter. 3,129,605.
Caldwell, Washington J. 3,130,486.
Collins, Richard D. 3,129,768.
Hilpman, Paul, and Albert. 3,156,959.
Holland, Bernard S. 3,132,561.
Jensen, James R., and Jacoby. 3,131,888.
Kaiser, Arthur N. 3,134,125.
Salmun, Moises. 3,131,892.
Sigler, Harold H., and Stuart. 3,116,896.
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Menke, Joseph F. 3,141,411.
Elvers, Ernst G., to North American Philips Co., Inc. Tuning indicator tube. 3,119,039, 1–21–64, Cl. 313—107.5.
Elvers, George C., Sr. Fertilizer gun. 3,123,362, 3–3–64, Cl. 275—1.
Elwell, Charles A., to Product Design & Development Corp. Animated doll. 3,154,881. 11–3–64, Cl. 46—9.
Ely, Charles M., A. P. De Luca, and F. Andriuli, to Nopco Chemical Co. Animal feed. 3,151,983, 10–6–64, Cl. 99—4.
Ely, Donald A., to Beloit Corp. Suction roll scavenging means. 3,160,553, 12–8–64, Cl. 162—274.
Ely, Laurice D., to Roelco, Inc. Accessory rear view mirror. 3,131,250, 4–28–64, Cl. 88—87.
Ely, Paul C., Jr., and R. J. McCaw, to Sperry Rand Corp. Adjustable waveguide support test stand. 3,124,345, 3–10–64, Cl. 269—60.
Ely, Ralph L., Jr. Submersible planing device. 3,134,351, 5–26–64, Cl. 114—16.
Emailleerfabriek De Ijsel, N.V.: *See* —
Schotsman, Jan. 3,152,634.
Emaus, William G., Jr., and W. H. Carrigan, to Kirkhof Mfg. Corp. Coolant transfer structure for transformers. 3,137,830, 6–16–64, Cl. 336—57.
Embach, Theodore R.: *See*—
Miller, Elmer L., Embach, and Folkins. 3,150,206.
Emballages de Quevilly, Les: *See*—
Gerard, Andre A. 3,133,480.
Emblem, Harold G.: *See*—
Barnes, William R., and Emblem. 3,122,492.
Emblem, Harold G., and R. C. Le Fleming, to Philadelphia Quartz Co. Preparation of organo-halogeno-silanes. 3,141,899, 7–21–64, Cl. 260—448.2.
Emblem, Harold G., and E. W. Fothergill, to Philadelphia Quartz Co. Organic silicates. 3,146,252, 8–25–64, Cl. 260—448.8.
Embree, Milton L., and F. A. Gateka, to Bell Telephone Laboratories, Inc. Semiconductor magnetron modulator. 3,135,876, 6–2–64, Cl. 307—88.5.
Embroden, Morgan, to Borg-Warner Corp. Prefabricated shower enclosure. 3,149,347, 9–22–64, Cl. 4—146.
Emdy, Reuben R., to Wanda Mfg. Co., Inc. Central vacuum cleaning unit. 3,146,081, 8–25–64, Cl. 55—315.
Emerick, Gerald J.: *See*—
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Emerick, Gerald J., and E. W. Stohr, to Federal Pacific Electric Co. Quick-make, quick break electric disconnect switch. 3,158,724, 11–24–64, Cl. 200—153.
Emerson, Carl D.: *See*—
Aichenegg, Paul C., and Emerson. 3,141,045.
Aichenegg, Paul C., and Emerson. 3,144,383.
Aichenegg, Paul C., and Emerson. 3,155,720.
Aichenegg, Paul C., Emerson, and Jarnevic. 3,152,138.
Aichenegg, Paul C., Emerson, and Jarnevic. 3,154,468.
Emerson & Cuming, Inc.: *See*—
Buckley, Elery F. 3,120,641.
Cuming, William R., and Buckley. 3,145,382.
Emerson, David C., to United Kingdom Atomic Energy Authority. Fuel element assemblies. 3,142,627, 7–28–64, Cl. 176—78.
Emerson Electric Co.: *See*—
Carlson, Robert J., and Wickenhagen. 3,149,275.
Phillips, Chester S. 3,135,883.
Raso, Vito, and Thompson. 3,138,032.
Wallace, John H., and Colleran. 3,149,273.
Woodward, Richard C., Jr. 3,148,560.
Emerson Electric Mfg. Co., The: *See*—
Carlson, Robert J. 3,125,711.
Little, Albert G. 3,123,342.
Luenberger, Frederick O. 3,119,034.
Luenberger, Frederick O. 3,122,384.
Luenberger, Frederick O. 3,135,884.
O'Reilly, Paul B. 3,128,399.
Emerson, Francis H., to Edward C. Parker. Mechanism for and method of expanding slitted foil. 3,162,231, 12–22–64, Cl. 153—2.
Emerson, Francis H., and E. C. Parker, said Emerson assor. to said Parker. Mechanism for slitting foil. 3,162,076, 12–22–64, Cl. 83—122.
Emerson-Garden Electric Co., Inc.: *See*—
Turner, James O. 3,121,557.
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Wright, Esmond P. G., and Emerson. 3,157,744.
Emerson, Leonard B., and R. Holman, to Raytheon Co. Synchronization apparatus. 3,118,142, 1–14–64, Cl. 343—118.
Emerson, Leonard B., and R. P. Curtis, to Raytheon Co. Indicating apparatus. 3,146,440, 8–25–64, Cl. 340—373.
Emerson, Marvin R.: *See*—
Butler, George L., and Emerson. 3,135,055.
Emerson Radio & Phonograph Corp.: *See*—
Lukas, Walter, Komroff, and Miller. 3,123,986.
Emerson, Reginald S., to Leslie Hartridge Ltd. Testing device for compression ignition engines. 3,152,473, 10–13–64, Cl. 73—119.
Emerson, William C., and L. Smith. Drilling deflection apparatus. 3,131,778, 5–5–64, Cl. 175—45.
Emerson, William D., to The Scholl Mfg. Co., Inc. Corn and callous file. 3,131,701, 5–5–64, Cl. 132—76.4.
Emery, A. H., Co., The: *See*—
Tate, Malcolm C. 3,145,795.
Emery, Charles L., and I. Hawkes. Load gauges. 3,122,918, 3–3–64, Cl. 73—141.
Emery, Edgar F. Cable binding clip. 3,127,648, 4–7–64, Cl. 24—16.
Emery, Harold L., to Koebel Diamond Tool Co. Multiple section cutting tool. 3,157,174, 11–17–64, Cl. 125—11.
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Emery, William M., to Better Sleep Mfg. Co. Folding shelf for bed clothes. 3,153,795, 10–27–64, Cl. 5—319.
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Emmett, James R., J. McGrath, and K. Connaughton, to Weier Water Treatment Ltd. Method of reducing the scale forming element on surfaces of an evaporator. 3,160,585, 12–8–64, Cl. 210—26.
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Emmons, William D., and W. S. Wadsworth, Jr., to Rohm & Haas Co. Bicyclic phosphites and phosphates. 3,155,703, 11–3–64, Cl. 260—461.
Emmons, William D., and W. S. Wadsworth, Jr., to Rohm & Haas Co. Acrylates and methacrylates of bicyclic phosphites and bicyclic phosphates. 3,155,705, 11–3–64, Cl. 260—461.
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Emrick, Donald D., to The Standard Oil Co. N-acylated aminohydroxy compound as a multi-functional gasoline additive. 3,157,477, 11–17–64, Cl. 44—56.
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Enders, Heinz W., H. Deiner, and E. W. Kurz, to Chemische Fabrik Pfersee G.m.b.H. Means for making textiles water resistant. 3,148,164, 9–8–64, Cl. 260—29.4.
Enders, Heinz W., R. Zorkendorfer, and G. Pusch, to Chemische Fabrik Pfersee G.m.b.H. Process for treating textiles. 3,149,999, 9–22–64, Cl. 117—139.4.
Enders, Heinz, H. Ruile, H. K. Wiest, H. Deiner, and E. Kurz, to Chemische Fabrik Pfersee G.m.b.H. Method and means for treating textiles. 3,150,000, 9–22–64, Cl. 117—139.5.
Enders, Sherwood G., to The Black and Decker Mfg. Co. Scotch-yoke mechanism having means to engage lubricant applicator at the top or bottom of the stroke. 3,119,460, 1–28–64, Cl. 184—5.
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Endler, Harry H. A., to Montecatini-Societa Generale per l'Industria Mineraria e Chimica. Process for the production of ethylene oxide by direct oxidation of ethylene on silver catalyst employing chlorohydrin inhibitor. 3,121,100, 2–11–64, Cl. 260—348.5.
Endler, Harry H. A., to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Halide-containing silver catalyst for the direct catalytic oxidation of olefins and the process of application. 3,132,158, 5–5–64, Cl. 260—348.5.
Endler, Harry H. A., and E. Bulgarelli, to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Process for preparing ethylene oxide by catalytic oxidation of ethylene with a halogen promoted silver catalyst. 3,132,157, 5–5–64, Cl. 260—348.5.
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Eickemeyer, Daniel B., and Engelking. 3,150,093.

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Engelmann, Lothar, to Chemtan Co. Resinous reaction products derived from lignins. 3,121,709, 2–18–64, Cl. 260—124.

Engelmann, Richard H., to J. P. Hayden. Photosensitive automatic headlight control system. 3,132,252, 5–5–64, Cl. 250—214.

Engelmann, Richard H., to J. N. Binns. Method of and means for measuring torque of an electric motor drive. 3,137,163, 6–16–64, Cl. 73—136.

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Englisch, Alfred, K. Koch, R. Zimmermann, and M. Raiser, to Chemische Werke Albert. N-alkyl-2-benzoxazolyl urea compounds. 3,162,644, 12–22–64, Cl. 260—307.
English, Charles L. Subsurface pumping unit. 3,118,382, 1–21–64, Cl. 103—46.
English, Charles L. Hydraulic pressure boosting device. 3,135,210, 6–2–64, Cl. 103—49.
English, Charles L., and J. B. Woods. Free pump control system. 3,120,812, 2–11–64, Cl. 103—46.
English Drilling Equipment Co. Ltd.: *See*—
Walmsley, Frank, Procter, and Sanders. 3,138,212.
English, Edgar, Jr. Belt attached tape dispenser and cutter therefor. 3,125,264. 3–17–64. Cl. 225—78.
English Electric Aviation Ltd.: *See*—
Creasey, Raymond F., and Burgin. 3,130,944.
English Electric Co. Ltd., The: *See*—
Ainsworth, John D. 3,119,958.
Ainsworth, John D. 3,119,959.
Antoszewski, Eugeniusz. 3,117,253.
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Bedford, Leslie H. 3,124,961.
Bedil, Mustafa F. 3,160,838.
Clark, George. 3,130,022.
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Feenan, John, and Jacks. 3,120,593.
Forster, Vincent T. 3,129,876.
Gibson, John C. 3,119,583.
Gonek, Stanislaw M., Rowlinson, and Goldner. 3,163,-737.
Peters, Walter E., and Mills. 3,155,158.
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English, Harvey W. Drill grinding attachment. 3,121,983, 2–25–64, Cl. 51—219.
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Ritter, Ralph K., and English. 3,162,746.
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Whitehouse, Glenroy D., and Cooke. 3,133,647.
English, Thomas D., Jr., and D. C. Rich, to Pittsburgh Plate Glass Co. Working glass. 3,150,950, 9–29–64, Cl. 65—62.
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Miller, Leon C., Englund, and Vecchiarelli. 3,156,294.
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Engström, Carl-Gunnar D. Arrangement in respirators. 3,126,001, 3–24–64, Cl. 128—29.
Engstrom, Carl J., to Royalmetal Corp. Stacking and ganging furniture construction. 3,159,425, 12–1–64, Cl. 297—248.
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Enk, Eduard, J. Nick, and H. Silbernagl, to Wacker-Chemie G.m.b.H. Process for the doping of silicon. 3,141,848, 7–21–64, Cl. 252—62.3.
Enk, Eduard, J. Nick, and H. Silbernagl, to Wacker-Chemie G.m.b.H. Process for doping materials. 3,141,849, 7–21–64, Cl. 252—62.3.
Enk, Eduard, J. Nickl, and H. Teich, to Wacker-Chemie G.m.b.H. Apparatus for the continuous production of silicon chloroform and/or silicon tetrachloride. 3,148,035, 9–8–64, Cl. 23—284.
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Ennis, Olin N. Shaft fluid seal and process of rebuilding the same. 3,123,364, 3–3–64, Cl. 277—1.
Ennis, Royce E., and L. H. Knabeschuh, to E. I. du Pont de Nemours and Co. Heat-stabilized chlorosulfonated polyethylene containing an epoxy compound and a phenol. 3,147,315, 9–1–64, Cl. 260—837.
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Enoch, Duard W., G. L. Scott, M. M. Huber, and C. Kieffer, to Interstate Bakeries Corp. Loaf coiling bread molding machine. 3,116,703, 1–7–64, Cl. 107—4.
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Enos, John P. Buttonhole attachment for zigzag sewing machines. 3,121,410, 2–18–64, Cl. 112—77.
Enos, John P., and R. E. Johnson, to The Singer Co. Buttonhole gauges. 3,137,254, 6–16–64, Cl. 112—75.
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Ensink, Johannes, and W. Beijnink, to North American Philips Co., Inc. Transmitting device. 3,131,352, 4–28–64, Cl. 325—64.
Ensink, Johannes, and P. G. F. Ploegaert, to North American Philips Co., Inc. Generator for producing a sequence of harmonic oscillations of a fundamental frequency. 3,134,-915, 5–26–64, Cl. 307—106.
Ensley, Clifford O. Method of providing a feed supplement for ruminants. 3,150,979, 9–29–64, Cl. 99—9.
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Ensley, Glover C. Method of threading cable through conduit. 3,156,449, 11–10–64, Cl. 254—134.3.
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Enström, Hans G., H. Barnieske, and R. K. E. Barkman, to Astra, Apotekarnes Kemiska Fabriker, Aktiebolaget. Hypodermic syringe. 3,155,093, 11–3–64, Cl. 128—218.
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Eolkin, Dave, E. R. Allard, L. H. Anderson, and J. R. Lovasz, to Gerber Products Co. Method of preparing a food product. 3,147,173, 9–1–64, Cl. 159—12.
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Epes, William R. Apparatus for applying tire chains. 3,156,140, 11–10–64, Cl. 81—15.8.
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Eppert, Franklin P., to General Electric Co. Ballast apparatus for starting and operating electric discharge lamps. 3,131,112, 7–14–64, Cl. 315—231.
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West, John A., and Eppes. 3,158,095.
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Eppler, Richard A., to Corning Glass Works. Method of making crystalline mica bodies and products. 3,149,982, 9–22–64, Cl. 106—39.
Eppler, Richard A., to Corning Glass Works. Semicrystalline ceramic body and method of making it. 3,161,528, 12–15–64, Cl. 106—39.
Eppler, Richard A., J. F. MacDowell, and J. D. Stetler, to Corning Glass Works. Method of making crystalline mica bodies and product. 3,149,947, 9–22–64, Cl. 65—33.
Eppley, Ralph D.: *See*—
Kelso, Robert G., Eppley, and Potter. 3,158,585.
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Karsh, Herbert. 3,126,886.
Richman, Peter L. 3,143,708.
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Epstein, David P. Pop-up box. 3,132,741, 5–12–64, Cl. 206—45.13.
Epstein, Henry D., to Texas Instruments Inc. Circuit-breaking apparatus. 3,156,849, 11–10–64, Cl. 317—27.
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Epstein, Ira G., to E. I. du Pont de Nemours and Co. Production of uniformly pill-resistant polyamide fibers. 3,121,278, 2–18–64, Cl. 28—76.
Epstein, Martin, to American Cyanamid Co. Substituted tertiary phosphine oxides. 3,117,165, 1–7–64, Cl. 260—606.5.
Epstein, Martin E.: *See*—
Roberts, William J., and Epstein. 3,117,114.
Epstein, Martin E., and A. W. Greenstreet, to Celanese Corp. of America. Spinning filaments from solutions in concentrated sulfuric acid of a polyamide and salt. 3,154,613, 10–27–64, Cl. 264—184.
Epstein, Morton B., to Colgate-Palmolive Co. Pressure dispenser with propellant developed in situ. 3,117,699, 1–14–64, Cl. 222—389.
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Buckler, Sheldon A., and Epstein. 3,145,234.
Epstein, Peter F., and G. P. Willsey, Jr., to Stauffer Chemical Co. S,5-bis(2,2-dialkyl-4,5-dihydro-1,3,2-dithiarsenolyl)-1,2-ethanethiols. 3,152,159, 10–6–64, Cl. 260—440.
Epstein, Saul. Thermocouple reference junction. 3,126,743, 3–31–64, Cl. 73—359.
Epstein, Saul. Differential pressure transducer. 3,147,454, 9–1–64, Cl. 336—20.
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Ujejski, Tadeusz. 3,147,473.
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Krebs, Richard W. 3,134,734.
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Hillger, Frederick B., and Burgess. 3,145,834.
Equipment Research Co.: *See*—
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Equipto Electronics Corp.: *See*—
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Equitable Capital Corp.: *See*—
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Equitable Paper Bag Co.: *See*—
Canno, Leonard E. 3,129,848.
Davis, John S., and Grob. 3,119,484.
Davis, John S. 3,130,895.
Davis, John S. 3,144,815.
Davis, John S. 3,148,598.
Pearl, Curt C. 3,149,771.
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Erath, Louis W., to Test Equipment Corp. Source of combined alternating current and direct current voltage. 3,128,132, 4–7–64, Cl. 307—2.
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Erb, Richard B., and K. C. Weston, to United States of America, National Aeronautic and Space Administration. Heat shield. 3,130,940, 4–28–64, Cl. 244—1.
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Giraldi, Piernicola, Artini, Nannini, and Logemann. 3,118,888.
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Schönenberger, Max, and Erbach. 3,148,141.
Erban, Richard T. Projection screen. 3,125,927, 3–24–64, Cl. 88—28.9.
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Deex, Oliver de S., Erbaugh, and Butler. 3,142,666.
Erbsloh, Julius & August, Kommanditgesellschaft: *See*—
Erbsloh, Paul-Gunther, and Wilke. 3,139,983.
Erbsloh, Paul-Gunther, and H. Wilke, to Erbsloh, Julius & August, Kommanditgesellschaft. Apparatus for producing metal-clad extruded bodies. 3,139,983, 7–7–64, Cl. 207—4.
Erck, Louis, J., D. C. Violetta, and T. E. Ban, to The Cleveland Cliffs Iron Co. Agglomerating method and apparatus. 3,140,326, 7–7–64, Cl. 264—117.
Ercoli, Alberto. Oral compositions containing 3-enolethers of methyltestosterone. 3,121,042, 2–11–64, Cl. 167—74.
Ercoli, Alberto, to Vismara, Francesco S.p.A. 3-cyclopentyl and cyclopentenyl ethers of estrone and derivatives thereof. 3,159,543, 12–1–64, Cl. 167—74.
Ercoli, Alberto, and R. Gardi, to Francesco Vismara S.p.A. Enol ethers of 3-keto-5α-androstanes. 3,118,917, 1–21–64, Cl. 260—397.5.
Ercoli, Alberto, and R. Gardi. Method for the production of Δ⁴-3,17-diketosteroids and intermediates obtained therein. 3,120,548, 2–4–64, Cl. 260—397.4.
Ercoli, Alberto, and R. Gardi, to Francesco Vismara, S.p.A. Cycloalkenyl ethers of 17β-hydroxy androstanes. 3,135,744, 6–2–64, Cl. 260—239.55.
Ercoli, Alberto, and R. Gardi, to Francesco Vismara, S.p.A. 17α,21-alkoxy-methylenedioxy pregnenes and pregnadienes and process therefor. 3,139,425, 6–30–64, Cl. 260—239.55.
Ercoli, Alberto, and R. Gardi, to Francesco Vismara, S.p.A. 17α,21-substituted methylenedioxy steroids and methods therefor. 3,147,249, 9–1–64, Cl. 260—239.55.
Ercoli, Alberto, and R. Gardi, to Francesco Vismara S.p.A. 17-monoesters of 17α,21-dihydroxy steroids and process for the preparation thereof. 3,152,154, 10–6–64, Cl. 260—397.45.
Ercoli, Alberto, and R. Gardi, to Vismara, Francesco, S.p.A. 19-nitrilosteroids and process for producing 19-norsteroids. 3,154,569, 10–27–64, Cl. 260—397.1.
Ercoli, Alberto, and R. Gardi, to Vismara, Francesco S.p.A. Process for the preparation of 17α-ethynyl-19-norandrostene compounds. 3,159,620, 12–1–64, Cl. 260—239.55.
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Paulik, Ferenc and J., and Erdey. 3,135,107.
Erdman, Donald C., to Automation Industries, Inc. Ultrasonic testing apparatus. 3,133,438, 5–19–64, Cl. 73—67.9.
Erdmann, Hans, to Waldes Kohinoor, Inc. Retaining-ring dispensing and/or applicator devices. 3,134,168, 5–26–64, Cl. 29—212.
Erdmann, Hans, to Waldes Kohinoor, Inc. Retaining ring dispensing and applying means. 3,137,932, 6–23–64, Cl. 29—211.

Erdmann, Hans, to Waldes Kohinoor, Inc. Combination retaining-ring dispensing and applying means. 3,138,854, 6–30–64, Cl. 29—211.
Erdmenger, Rudolf, to Farbenfabriken Bayer Aktiengesellschaft. Worm arrangement. 3,122,356, 2–25–64, Cl. 259—104.
Erdmenger, Rudolf, and W. Oetke, to Farbenfabriken Bayer Aktiengesellschaft. Apparatus for evaporating volatile constituents from plastic, elastic and viscous material. 3,118,744, 1–21–64, Cl. 34—183.
Erdos, John, to Inland Bed Co. Mobile bed. 3,159,852, 12–8–64, Cl. 5—136.
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Erekson, Arthur B., and S. A. Martz, to The Borden Co. Laminated dough. 3,142,573, 7–28–64, Cl. 99—90.
Ergott, Harold L., Jr., S. G. Linardos, and R. T. O'Connell, to International Business Machines Corp. Logic circuits with inversion. 3,152,264, 10–6–64, Cl. 307—88.5.
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Schoenewaldt, Erwin F., Erickson, and Chemerda. 3,161,675.
Erickson, Arthur E., R. J. Tull, and W. A. Sklarz, to Merck & Co., Inc. Phenazasiline compounds. 3,131,203, 4–28–64, Cl. 260—448.2.
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Erickson, Charles D., to A. O. Smith Corp. Variable ratio transmission apparatus. 3,135,125, 6–2–64, Cl. 74—194.
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Erickson, Clifford E., to General Electric Co. Dryer venting arrangement. 3,123,939, 3–10–64, Cl. 50—70.
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Erickson, Gerald T. and R., to Snap Pac Corp. Continuous orienting and packaging machine for cans or the like. 3,144,740, 8–18–64, Cl. 53—48.
Erickson, Gustav F., to National Rejectors, Inc. Switches for coin separators. 3,123,688, 3–3–64, Cl. 200—67.
Erickson, Gustav F., to National Rejectors, Inc. Money-handling devices. 3,155,213, 11–3–64, Cl. 194—19.
Erickson, Gustav F., F. T. Vaccaro, and J. Buddenbaum, to National Rejectors, Inc. Coin separators. 3,138,165, 6–23–64, Cl. 133—5.
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Erickson, Henry, to Sinclair Research, Inc. Cracking catalyst demetallization. 3,147,228, 9–1–64, Cl. 252—412.
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Erickson, Henry, M. F. L. Johnson, and C. D. Keith, to Sinclair Research Inc. Process for the preparation of a catalyst. 3,132,111, 5–5–64, Cl. 252—464.
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Erickson, Howard L., to The Dole Valve Co. Adjustable slug liquid dispenser. 3,162,336, 12–22–64, Cl. 222—309.
Erickson, Howard L., to The Dole Valve Co. Liquid dispenser. 3,162,340, 12–22–64, Cl. 222—559.
Erickson, Julius L. E., J. Dorsky, and W. M. Easter, Jr., to The Givandan Corp. Process for preparing substituted cyclopentenones. 3,137,731, 6–16–64, Cl. 260—586.
Erickson, Lewis C., to National Iron Co. Reciprocating plate feeding device. 3,139,967, 7–7–64, Cl. 198—60.
Erickson, Norman B., to Chicago Musical Instrument Co. Electrical musical instrument. 3,139,477, 6–30–64, Cl. 84—1.26.
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Erickson, Reginald T. Method of heat recovery from waste gases containing vapor. 3,131,035, 4–28–64, Cl. 34—77.
Erickson, Richard: *See*—
Erickson, Gerald T. and R. 3,144,740.
Erickson, Robert H., and S. Boyk, to General Magnetic Corp. Method for making barium ferrite magnets. 3,155,623, 11–3–64, Cl. 252—62.5.
Erickson, Ronald O.: *See*—
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Erickson, Russell J. Control and guide means for sliding panels and the like. 3,162,905, 12–29–64, Cl. 20—52.
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Ericson, Eric A., to General Electric Co. Panelboard switch unit. 3,134,877, 5–26–64, Cl. 200—153.
Ericson, Ernest A., to Esso Research and Engineering Co. Scraper launching mechanism. 3,158,888, 12–1–64, Cl. 15—104.06.
Ericson, Harry A. H., to Sture Granberger Firma. Nickel plating. 3,130,135, 4–21–64, Cl. 204—49.
Ericson, Lars O., H. C. J. and O. C. G. Wennberg, to General Engineering Co. Aktiebolag. Filter for purifying liquids. 3,163,601, 12–29–64, Cl. 210—196.
Ericson, Walter M., to United States Gypsum Co. Ventilated ceiling structure using panel-supporting T-rails with valve controlled slots in pairs for admitting ventilating air. 3,127,827, 4–7–64, Cl. 98—40.
Ericson, Walter M., to United States Gypsum Co. Ceiling panel with prefabricated valved ports for controlled air circulation. 3,159,092, 12–1–64, Cl. 98—40.
Ericsson, Arvid I., to Signode Steel Strapping Co. Strapping machine. 3,125,326, 3–17–64, Cl. 254—51.
Ericsson, Eric A.: *See*—
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Ericsson, L M Telefonaktiebolaget: *See*—
Alexandersson, Harold V., Ericsson, and Johannesson. 3,118,021.
Warring, Stig E. 3,144,608.
Ericsson, Sten Y. Alkali metal monofluorophosphate and calcium carbonate dentifrice. 3,119,743, 1–28–64, Cl. 167—93.
Ericsson, Stig, B. Nilsson, and S.-O. Brunzell, to Allmanna Svenska Elektriska Aktiebolaget. Arrangement for long-standing storage of damaged active fuel elements of a nuclear reactor. 3,153,619, 10–20–64, Cl. 176—30.
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Erikson, Carl F., to Sundstrand Corp. Tool adapter. 3,159,081, 12–1–64, Cl. 90—11.
Erikson, Evans W., to Sundstrand Corp. Field circuit control. 3,132,297, 5–5–64, Cl. 322—59.
Erikson, Herman E., to Polaroid Corp. Photographic apparatus. 3,120,792, 2–11–64, Cl. 95—13.
Erikson, Herman E., to Polaroid Corp. Dispensing nozzle structure for photographic processing apparatus. 3,142,242, 7–28–64, Cl. 95—89.
Erikson, Herman E., to Polaroid Corp. Process for treating photosensitive material. 3,161,507, 12–15–64, Cl. 96—27.
Erikson, Robert W.: *See*—
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Erikson, Robert W., to Sundstrand Corp. Two-stage fuel unit. 3,162,129, 12–22–64, Cl. 103—2.
Eriksson, Elof E., O. Gjessvag, and J. K. A. Olsson, to Telefonaktiebolaget L M Ericsson. Arrangement for temperature dependent control of the output voltage of an energy source. 3,126,508, 3–24–64, Cl. 323—69.
Eriksson, George J., to Superior Concrete Accessories, Inc. Adjustable, collapsible, and articulated bracket for supporting a concrete form for a bridge fascia. 3,119,590, 1–28–64, Cl. 248—240.3.

Eriksson, Lars E. Method for deposition of a copper layer on a non-conductive material. 3,134,690, 5–26–64, Cl. 117—213.
Eriksson, Rolf G., to G. E. Bjorklund. Rotary machine for use as a pump, compressor or motor. 3,118,388, 1–21–64, Cl. 103—161.
Eriksson, Sven G. Device for sucking liquid, air and solid particles. 3,161,135, 12–15–64, Cl. 103—25.
Erismann, Gerard, C. Maurer, and A. Rossel, to Erismann-Schinz S.A. Bearing for timepieces. 3,120,098, 2–4–64, Cl. 58—140.
Erismann, Paul. Cabinet with a pivotable door and at least one drawer. 3,135,570, 6–2–64, Cl. 312—311.
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Erkes, Pierre A., to Bureau d'Etudes Nucleaires en abrege B.E.N. Method of and apparatus for transferring a load between two fluid-containing reservoirs. 3,128,963, 4–14–48, Cl. 243—1.
Erlanger, Bernard F., to United States of America, Navy. Chromogenic substrate for use in assaying enzymic activity. 3,144,484, 8–11–64, Cl. 260—562.
Erlanger, Gustav. Device for facilitating iontophoresis treatment of eyes. 3,122,137, 2–25–64, Cl. 128—172.1.
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Erle, Donald Z., and R. L. Vick, to United States of America, Navy. High-temperature gas-liquid accumulator. 3,153,-428, 10–20–64, Cl. 138—31.
Erlich, Victor L., to Reeves Brothers, Inc. Tobacco smoke filters. 3,144,025, 8–11–64, Cl. 131—208.
Erlichman, Irving, to Polaroid Corp. Photographic apparatus. 3,152,529, 10–13–64, Cl. 95—13.
Erlichman, Irving, to Universal Controls, Inc. Coin handling apparatus. 3,152,598, 10–13–64, Cl. 133—3.
Erlinder, Atwood E., and A. Shayne. Container elevating and dumping mechanism for self-loading vehicle. 3,136,-436, 6–9–64, Cl. 214—302.
Ermecke, Albin, to Rich. Ermecke o.H.G. Liquid storing, dispensing and metering arrangement. 3,120,330, 2–4–64, Cl. 222—386.5.
Erner, William E,. and H. A. Green, to Air Products and Chemicals, Inc. Production of polyurethanes using an imidazole catalyst. 3,152,094, 10–6–64, Cl. 260—2.5.
Ernest, William S., to Brooks Instrument Co., Inc. Mechanico-electric transducer. 3,143,718, 8–4–64, Cl. 336—30.
Ernestus, Adolph W., to Lockheed Aircraft Corp. Roll-forming mill. 3,160,036, 12–8–64, Cl. 80—11.
Erni, Enrico, to Gesellschaft der Ludw. von Roll'schen Eisenwerke A.G. Smoke hood for electric furnaces and the like. 3,138,649, 6–23–64, Cl. 13—15.
Erni, Enrico, and F. Luscher, to Gesellschaft der Ludw. von Roll'schen Eisenwerke. Device for the removal of smoke from electric furnaces and the like. 3,127,462, 3–31–64, Cl. 13—9.
Ernisse, Paul J., to Eastman Kodak Co. Automatic take-up device. 3,132,574, 5–12–64, Cl. 95—31.
Ernst, Adolphe O. G., J. P. J. Jardinier, and J. Rona, to Societe Nationale d'Etude et de Construction de Moteurs d' Aviation. Safety device, especially for aircraft servo-controls. 3,138,002, 6–23–64, Cl. 60—52.
Ernst, Adolphe O. G., and F. J. G. Tremouilles, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Sealing and rotatable mounting arrangement for rocket nozzles. 3,159,969, 12–8–64, Cl. 60—35.55.
Ernst, Alvin O. Angle iron brick laying guide and brackets therefor. 3,127,684, 4–7–64, Cl. 33—85.
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Porret, Daniel, Fisch, Batzer, and Ernst. 3,147,279.
Ernst, Paul, and W. Fischer, to Wacker-Chemie G.m.b.H. Process for chemically curling cellulose acetates. 3,145,075, 8–18–64, Cl. 8—131.
Ernst, William B. Laying cages. 3,119,375, 1–28–64, Cl. 119—48.
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Ertaud, André, to Societe Alsacienne de Constructions Mecaniques. Fluid-tight devices for rotating shafts. 3,131,942, 5–5–64, Cl. 277—53.
Ertaud, André, J. Friberg, and P. Maginot, to Commissariat a l'Energie Atomique. Aerodynamic bearing. 3,143,382, 8–4–64, Cl. 308—122.
Ertaud, André, J. Friberg, and P. Maginot, to Commissariat a l'Energie Atomique. Air bearing. 3,152,845, 10–13–64, Cl. 308—9.
Erteszek, Olga, to Olga Co. Elasticized panty girdle. 3,142,-300, 7–28–64, Cl. 128—524.
Erteszek, Olga. Elasticized panty garment. 3,142,301, 7–28–64, Cl. 128—528.
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Ervin, Harold D., to The Magnavox Co. Transient protection for power supply. 3,134,067, 5–19–64, Cl. 321—11.
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Erwin, Charles W. Organoleptic compositions. 3,124,459, 3–10–64, Cl. 99—1.
Erwin, Charles W. Organoleptic compositions. 3,124,460, 3–10–64, Cl. 99—1.
Erwin, Harold E. Sheet aligning clamp. 3,161,166, 12–15–64, Cl. 113—99.
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Erwin, Ransome W., and R. L. O'Shields, to Bass Bros. Enterprises, Inc. Hydrocyclones. 3,136,723, 6–9–64, Cl. 210—512.
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Eschemmoser, Albert, and C. F. Seidel, deceased (by J. Diggelmann, administrator), to Firmenich & Cie. Cyclic ether of tetrahydropyran and process for the manufacture thereof. 3,161,657, 12–15–64, Cl. 260—345.1.
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Escoffery, Charles A., to International Rectifier Corp. Solar battery and method of making it. 3,151,379, 10–6–64, Cl. 29—25.3.
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Eshbaugh, Jesse E., to General Motors Corp. Hydraulic coupling with thermo-sensitive control means. 3,149,465, 9–22–64, Cl. 60—54.
Eshelman, Charles R., to Radio Corp. of America. Switching circuit. 3,157,797, 11–17–64, Cl. 307—88.5.
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Eshleman, Ralph G., and J. W. Farmer, to United States of America, Navy. Demolition firing device. 3,120,810, 2–11–
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Eskridge, Brewster B., to American Enka Corp. Production of viscose rayon. 3,153,687, 10–20–64, Cl. 264—191.
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Espersen, Sylvia B. Combination bed sheet and pillow casing. 3,148,388, 9–15–64, Cl. 5—334.
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Esse, Robert C., and G. M. Sieger, to American Cyanamid Co. Novel 4 - dedimethylamino - 4 - oxo-6-demethyltetracycline-4-oximes and 4-hydrazones. 3,159,675, 12–1–64, Cl. 260—559.
Esselman, Walter H., and W. G. Roman, to Westinghouse Electric Corp. Circulating means for enclosed liquid-vapor systems. 3,154,140, 10–27–64, Cl. 165—106.
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Edwards, William R., Wesselhoft, and Williams. 3,150,-200.
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Evans, Arthur W., and K. Arkless, to British Titan Products Co. Ltd. Production of silicon halides. 3,130,011, 4–21–64, Cl. 23—205.
Evans, Arthur W., and J. R. Moody, to British Titan Products Co. Ltd. Process relating to ore beneficiation. 3,149,963, 9–22–64, Cl. 75—101.
Evans, Arthur W., and J. D. Groves, to British Titan Products Co. Ltd. Method for the production of titanium tetrachloride and zirconium chlorides. 3,156,527, 11–10–64, Cl. 23—87.
Evans, Charles. Self-propelled water craft. 3,150,632, 9–29–64, Cl. 115—70.
Evans, Charles S. Safety hook. 3,121,274, 2–18–64, Cl. 24—241.
Evans, Charles S. Safety hook. 3,121,275, 2–18–64, Cl. 24—241.
Evans, Charles S. Safety hook. 3,121,276, 2–18–64, Cl. 24—241.
Evans, Chauncey R., to Atuk Corp. Signal generating system. 3,137,754, 6–16–64, Cl. 84—1.16.
Evans, Chauncey R., to Atuk Corp. Pickup for musical instruments. 3,154,701, 10–27–64, Cl. 310—9.6.
Evans, Cyril C. Oil seals. 3,127,185, 3–31–64, Cl. 277—146.
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Evans, Dafydd W., and R. F. Oster, to Towmotor Corp. Material handling apparatus. 3,143,233, 8–4–64, Cl. 214—652.
Evans, Daniel J., to Fischer & Porter Co. Consistency measuring apparatus. 3,147,612, 9–8–64, Cl. 73—53.
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Evans, Dewey M.: *See*—
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Evans, Dewey M., J. H. Patrick, J. L. Rudlaff, and L. C. Weathers, to Ajem Laboratories, Inc. Automatic power washing apparatus. 3,153,419, 10–20–64, Cl. 134—133.
Evans, Douglas N., to Inland Steel Co. Charging apparatus for blast furnace with high top pressure. 3,139,472, 6–30–64, Cl. 266—27.
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Evans, Elmer H., and F. C. Starbuck, to Huron Portland Cement Co. Conveying apparatus. 3,152,841, 10–13–64, Cl. 302—29.
Evans, Elwyn, and H. J. White, to Glaxo Laboratories Ltd. Substituted tetrahydroisoquinalines. 3,143,550, 8–4–64, Cl. 260—288.
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Evans, Fraser M., to C.A.V. Ltd. Liquid fuel pumps. 3,116,728, 1–7–64, Cl. 123—139.
Evans, Fraser M., to C.A.V. Ltd. Fuel injection nozzle units. 3,124,305, 3–10–64, Cl. 239—533.
Evans, Fraser M., and K. A. W. Kemp, to C.A.V. Driving shafts. 3,142,973, 8–4–64, Cl. 64—27.
Evans, Frederick P., to United Aircraft Corp. Ratio device. 3,142,751, 7–28–64, Cl. 235—200.
Evans, Gary E., to United States of America, Navy. Microwave diode switch having by-pass means to cancel signal leak when diode is blocked. 3,138,768, 6–23–64, Cl. 333—97.
Evans, George Q. Stacking frame assembly for a pallet. 3,123,021. 3–3–64, Cl. 108—53.
Evans, George W., to Oscar Mayer & Co. Inc. Reclosable dispensing package. 3,152,727, 10–13–64, Cl. 222—107.
Evans, George W., and E. E. Baker, to Halliburton Co. Insert packer type equipment. 3,120,269, 2–4–64, Cl. 166—120.
Evans, Gerald C.: *See*—
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Evans, Helene D., F. W. H. Mueller, and S. Levinos, to General Aniline & Film Corp. Photopolymerization of vinyl monomers with metal oxides as catalysts. 3,147,119, 9–1–64, Cl. 96—115.
Evans, Jack M., to Band-It Co. Valved quick coupler. 3,129,919, 4–21–64, Cl. 251—89.5.
Evans, Jack R., and A. R. Rollo, to Southwest Products Co. Method of making self-aligning bearings. 3,116,539, 1–7–64, Cl. 29—149.5.
Evans, James. Automatic alarm system. 3,131,260, 4–28–64, Cl. 179—5.
Evans, James K., and P. S. Hanson, to The Beryllium Corp. Metallic product and method of manufacture thereof. 3,134,701, 5–26–64, Cl. 148—11.5.
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Pearce, George C., Evans, Fry, and Milburn. 3,157,176.
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Evans, Lynn F. Mounting for electric trolling motors. 3,119,365, 1–28–64, Cl. 115—17.
Evans, Michael E., and K. Hartmann, to Lever Bros. Co. Method for cutting frozen foodstuffs. 3,151,991, 10–6–64, Cl. 99—192.
Evans, Nicholas A. Aircraft landing aid. 3,158,834, 11–24–64, Cl. 340—26.
Evans, Paul F., and C. G. Cook, to General Precision Inc. Method for obtaining a conductor panel. 3,136,912, 6–9–64, Cl. 313—108.
Evans, Paul I., to United States of America, Army. Stop valve mechanism. 3,161,399, 12–15–64, Cl. 251—14.
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Evans, Ralph S. Fire tube heat flow regulators. 3,151,582, 10–6–64, Cl. 110—97.

Evans, Raymond B., to National Starch and Chemical Corp. Limited stability amylose dispersions and method of preparation. 3,130,081, 4–21–64, Cl. 127—33.
Evans, Raymond B., and W. Herbst, to National Starch and Chemical Corp. Method of encapsulating water insoluble oils and product thereof. 3,159,585, 12–1–64, Cl. 252—316.
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Evans, Walter R., to North American Aviation, Inc. Means for increasing the acuracy of synchros or the like. 3,139,572, 6–30–64, Cl. 318—30.
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Evans, Wendell I., to The Cincinnati Milling Machine Co. Tracer system and mechanism therefor for profile or scanning operations. 3,139,002, 6–30–64, Cl. 90—62.
Evans, Wendell I., to The Cincinnati Milling Machine Co. Velocity error compensating device. 3,139,005, 6–30–64, Cl. 91—168.
Evans, William H. Reamer forming method. 3,118,324, 1–21–64, Cl. 76—108.
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Evelbauer, Karl, to Dr. Rickmann & Rappe, Firma. Process for the enameling of articles made of iron with vitreous enamels. 3,120,458, 2–4–64, Cl. 148—6.14.
Evelove, Leon G., to Litton Systems, Inc. Electrical circuit board mounting arrangements. 3,140,137, 7–7–64, Cl. 339—17.
Evelyn, George B., and G. C. Newell, to The Boeing Co. Air conditioning and heat intercept system for high speed vehicles. 3,116,613, 1–7–64, Cl. 62—239.
Even, Georges. Diminutive two-men tank vehicle body. 3,145,620, 8–25–64, Cl. 89—36.
Even, Georges F. M. Gun loading apparatus. 3,134,301, 5–26–64, Cl. 89—33.
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Everett, John W. Pressure container with recessed top. 3,145,884, 8–25–64, Cl. 222—386.5.
Everett, Ray G. Air equalizer for storm doors. 3,151,626, 10–6–64, Cl. 137—493.
Everett, Wilhelm S. Fluid pulsation dampener. 3,146,796, 9–1–64, Cl. 138—26.
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Guidarelli, Elio J., Eversole, and Lawrence. 3,141,777.
Eversole, Russell A., and F. C. Wingert, to Cargill, Inc. Swine treatment. 3,127,318, 3–31–64, Cl. 167—78.
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Nelson, Permil N. 3,154,857.
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Ewing, Paul E., to Rich Mfg. Co. of California. Apparatus for lining cylindrical flasks. 3,143,774, 8–11–64, Cl. 22—36.
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Ewing, Scott P., Jr., and E. G. Baker, to Esso Research and Engineering Co. Recovery and purification of naphthenic acids. 3,133,960, 5–19–64, Cl. 260—514.
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Kraus, Charles E. 3,163,051.

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Eyl, Harold. Water filtering and circulating system for an aquarium. 3,135,238, 6–2–64, Cl. 119—5.

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Farmer, Bobby J., to Ling-Temco-Vought, Inc. Fuel ignitor. 3,122,887, 3–3–64, Cl. 60—39.82.
Farmer, Clifford M.: *See*—
Winslow, Charles A., and Farmer. 3,127,255.
Farmer, Donald J., to General Technology Corp. Electrodeless lamp having a sheathed probe. 3,138,739, 6–23–64, Cl. 315—248.
Farmer, Earl W. Underwater weed saw. 3,133,395, 5–19–64, Cl. 56—8.
Farmer Electric Products Co., Inc.: *See*—
Farmer, John M. 3,161,777.
Farmer, Homer H., and H. F. Tompkins, to R. T. Vanderbilt Co., Inc. Extreme pressure lubricants. 3,139,405, 6–30–64, Cl. 252—33.6.
Farmer, James O., to E. I. du Pont de Nemours and Co. Positive type feeding apparatus. 3,124,947, 3–17–64, Cl. 66—132.
Farmer, James W.: *See*—
Eshleman, Ralph G., and Farmer. 3,120,810.
Farmer, John, to Honolulu Iron Works Co. Machine for loading pineapple slices. 3,136,103, 6–9–64, Cl. 53—123.
Farmer, John, to Honolulu Iron Works Co. Pineapple slicing machine. 3,136,348, 6–9–64, Cl. 146—6.
Farmer, John M., to Farmer Electric Products Co., Inc. Photoelectric scanning device. 3,161,777, 12–15–64, Cl. 250—239.
Farmer, Marion R., to Ben Pearson, Inc. Cotton picker spindle slat positioner hinge means. 3,156,081, 11–10–64, Cl. 56—42.
Farmer, Quentin B.: *See*—
Ellingsworth, Walton M., Jr., and Farmer. 3,132,826.
Farmer, Roger C., to Barnes Engineering Co. Horizon sensor test equipment. 3,137,173, 6–16–64, Cl. 73—432.
Farmer, Stanley E., and H. F. Weinert, to Cascade Mfg. Co. Lift truck with ram-actuated extensible mast assembly. 3,116,812, 1–7–64, Cl. 187—9.
Farmer, Stanley E., D. M. Faust, and H. F. Weinert, to Cascade Corp. Flexible load clamping arms with adjustable fulcrum means. 3,145,866, 8–25–64, Cl. 214—653.
Farmer, William K., to Enterprise Railway Equipment Co. Hopper closure outlet assembly. 3,133,509, 5–19–64, Cl. 105—253.
Farmers Co., Inc.: *See*—
Fletcher, Donald A. 3,140,827.
Farmers National Bank and Trust Co.: *See*—
Wenger, Harvey M. 3,129,739.
Farmochimica Cutolo-Calosi, S.p.A.: *See*—
Segre, Augusto, and Viterbo. 3,163,651.
Farnam, F. D., Co.: *See*—
Farnam, Franklin W. and R. G. 3,158,526.
Farnam, Franklin W. and R. G., to F. D. Farnam Co. Reinforced gasket products. 3,158,526, 11–24–64, Cl. 161—95.
Farnam, Henry E., Jr.: *See*—
Cook, Melvin A., and Farnam. Re. 25,695.
Cook, Melvin A., and Farnam. 3,121,036.
Farnam, Robert G.: *See*—
Farnam, Franklin W. and R. G. 3,158,526.
Farndale, Edward B., to Madison Industries Inc. Boring bar cutter. 3,122,031, 2–25–64, Cl. 77—58.
Farnell, Ralph W., and G. H. Albinger. Ground air gun mounting support. 3,134,446, 5–26–64, Cl. 173—24.
Farnham, Alford G.: *See*—
Gorham, William F., and Farnham. 3,117,945.
Gorham, William F., and Farnham. 3,117,946.
Farnham, George R., to Far-Prit, Associate, Inc. Hydraulically actuated crutch. 3,157,188, 11–17–64, Cl. 135—50.
Farnham, George R., to Far-Prit, Associate, Inc. Power actuated crutch. 3,157,189, 11–17–64, Cl. 135—50.
Farnis, Rocking G.: *See*—
Meyer, Fred R. 3,134,320.
Farnsworth, George H., to I-T-E Circuit Breaker Co. Circuit protector. 3,158,789, 11–24–64, Cl. 317—119.
Farnsworth, Le Moyne E., to Automation Machine and Equipment Co. Inc. Motor driven welding guns. 3,134,894, 5–26–64, Cl. 219—125.
Farnsworth, Robert P., to Hughes Aircraft Co. Transistor circuits utilizing shunt-input tunnel diode to provide positive switching and improve rise time. 3,153,151, 10–13–64, Cl. 307—88.5.
Farny, Christopher H.: *See*—
Hall, Raymond L. 3,120,385.
Farny, Cyril: *See*—
Hall, Raymond L. 3,120,385.
Farny, David H.: *See*—
Hall, Raymond L. 3,120,385.
Farny, Michael H.: *See*—
Hall, Raymond L. 3,120,385.
Faro, Charles, to The Flintkote Co. Back pack. 3,127,077, 3–31–64, Cl. 224—26.
Faro, Charles, to The Flintkote Co. Fiber cutter and aspirator. 3,130,619, 4–28–64, Cl. 83—98.
Faroni, Charles C., E. M. Gunther, and R. A. Degen, to Elastic Stop Nut Corp. of America. Self locking nut having slots to accommodate a cotter pin. 3,129,742, 4–21–64, Cl. 151—5.
Faroscope Mfg. Co.: *See*—
De Faro, Luiz F. 3,130,636.
Farough, Ronald T., and E. J. Berwick. Lineman protector device. 3,133,984, 5–19–64, Cl. 174—5.
Far-Prit, Associate, Inc.: *See*—
Farnham, George R. 3,157,188.
Farnham, George R. 3,157,189.
Farquhar, John C., to Fisons Fertilizers Ltd. Weighing machine. 3,163,248, 12–29–64, Cl. 177—132.
Farquhar, Melville T., to Reynolds Metals Co. Collapsible receptacle and blank therefor or the like. 3,144,977, 8–18–64, Cl. 229—16.
Farquhar, Melville T., to Reynolds Metals Co. Container with dispensing hopper means and blanks for making the same. 3,161,341, 12–15–64, Cl. 229—17.
Farquhar, Thomas J. Device for improving the mixing of fuel gas with flux. 3,148,723, 9–15–64, Cl. 158—27.4.
Farr, Alton E., W. L. Grabowski, and H. G. Hoehmann, to Douglas Aircraft Co. Inc. Rotary viscous fluid damper. 3,119,469, 1–28–64, Cl. 188—90.
Farr, Andrew F. Automatic fluid sampling and photometric testing apparatus. 3,142,719, 7–28–64, Cl. 88—14.
Farr, Cecil. Hog trap. 3,128,746, 4–14–64, Cl. 119—99.
Farr, Edward A.: *See*—
Hoffman, Frank A., Farr, and Buchanan. 3,128,855.
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Dewar, Douglas, Mortimer, and Farr. 3,129,903.
Farr, Harold K.: *See*—
Lustig, Howard E., Rossoff, Frelich, and Farr. 3,144,-631.
Farr, Homer D.: *See*—
Thrap, John E., and Farr. 3,123,089.
Farr, Robert L.: *See*—
Roe, Robert F., and Steinhauer. 3,127,594.
Farrand Optical Co., Inc.: *See*—
Shenker, Martin. 3,119,892.
Farrand, William A.: *See*—
Morley, Robert I., and Farrand. 3,123,269.
Farrar, Clayton L.: *See*—
White, Jonathan W., Jr., Farrar, Moeller, and Woodrow. 3,122,473.
Farrar, Martin W.: *See*—
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Baran, Peter J. 3,135,440.
Binkowski, George. 3,122,090.
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Farrel Corp.: *See*—
Ahlefeld, Edwin H., Jr., Baldwin, Hold, Rapetski, and Scharer. 3,154,808.
Bowen, William R. 3,132,381.
Farrell, Christopher W. Remote light indicator system for vehicles. 3,144,561, 8–11–64, Cl. 250—217.
Farrell, Guy M., to F. & F. Enterprises, Inc. Electrical switch construction. 3,163,738, 12–29–64, Cl. 200—166.
Farrell, Joseph B.: *See*—
Geitz, Robert C., Islas, Farrell, and Lee. 3,145,716.
Farrell, Robert A, and G. V. Skowronski, to American Can Co. Food container. 3,158,491, 11–24–64, Cl. 99—171.
Farrell, Sherman R., to High Voltage Engineering Corp. Enlargement of charged particle beams. 3,120,609, 2–4–64, Cl. 250—49.5.
Farrell, Sherman R., to High Voltage Engineering Corp. Shadow apparatus for measuring electron beam divergence. 3,139,525, 6–30–64, Cl. 250—49.5.
Farrell, Terence M. P. Rotary electric switch having a plurality of contacts. 3,146,322, 8–25–64, Cl. 200—23.
Farrell, Thomas J.: *See*—
Berenbak, William M., Farrell, and Knox. 3,150,469.
Farrell, Walter O., and L. S. Verde, to H. Muehlstein & Co., Inc. Compositions and process for manufacturing molded rubber articles. 3,129,197, 4–14–64, Cl. 260—41.5.
Farrell, William M., to General Electric Co. Cover plate assembly for sealing spaces between turbine buckets. 3,137,-478, 6–16–64, Cl. 253—77.
Farrell, William M., to General Electric Co. Turbine shroud support structure. 3,146,992, 9–1–64, Cl. 253—39.
Farrell, William P. Necktie stabilizer. 3,157,886, 11–24–64, Cl. 2—153.
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Quinn, John J., and Lew. 3,152,801.
Taylor, James W., and McKay. 3,151,544.
Farrington Machines, Inc.: *See*—
Thomson, Elihu C. 3,133,606.
Farrington, Robert K., and R. G. Marr, to Marmac Products, Inc. Dual station steering mechanism. 3,128,738, 4–14–64, Cl. 114—146.
Farris, Franklyn E., and W. M. Rand, to Oceanic Systems Corp. Underwater glider. 3,157,145, 11–17–64, Cl. 114—16.
Farris, George D. Infant's breech cloth. 3,141,461, 7–21–64, Cl. 128—284.
Farro, Ruben. Accessory device for outdoor cooking apparatus. 3,119,386, 1–28–64, Cl. 126—25.
Farron, John R.: *See*—
Edwards, Charles M., Kanes, Fischer, Geiger, Feder, and Farron. 3,158,018.
Farrow, Cecil W., to Bell Telephone Laboratories, Inc. Synchronizing system for pulse sources. 3,160,821, 12–8–64, Cl. 328—155.
Farrow, Fergus E.: *See*—
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Farrow, Frederic W. R., to Associated Electrical Industries Ltd. Electrode support rod and support plate therefor. 3,155,863, 11–3–64, Cl. 313—260.
Farstrup, Erik O. Bed bottom, seat or back. 3,147,495, 9–8–64. Cl. 5—191.
Fasal, John H.: *See*—
Bagno, Samuel M., and Fasal. 3,149,318.
Fasciano, Patrick, to Conmar Products Corp. Production of fastener-element-free gaps in slide fastener chain. 3,128,-543, 4–14–64. Cl. 29—408.
Faso, William J. Tools for picking-up, positioning and turning nuts and the like. 3,142,211, 7–28–64, Cl. 81—125.
Fasold, George A., and J. G. Blough, to The Philip Carey Mfg. Co. Fire resistant vapor barrier for roof decks and the like. 3,141,858, 7–21–64, Cl. 260—23.
Fassett, Gardner L., and R. W. Cox, to Radio Corp. of America. Sealing fixture for glass bulbs. 3,118,662, 1–21–64, Cl. 269—296.
Fassino, Edward G.: *See*—
Lourie, Norman M., and Fassino. 3,119,025.
Fassnacht, John H., to E. I. du Pont de Nemours and Co. Polyfluoroalkyl-substituted polysiloxanes. 3,148,201, 9–8–64, Cl. 260—448.2.
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Doyle, Richard H., Hermann, and Naber. 3,141,171.
Mysiak, Eugene J. 3,156,920.
Wandel, Oscar A., and Miller. 3,152,335.
Fasulo, Joseph L., to United States of America, Navy. Automatic frequency control circuitry for high voltage klystron tubes. 3,125,728, 3–17–64, Cl. 331—6.
Fate-Root-Heath Co., The: *See*—
De Witt, Raymond H. 3,118,256.
Fath, Douglas W., F. J. Kleewein, T. Kraschinsky, G. C. Lutsch, and C. J. Weiss, to Cutler-Hammer, Inc. Material handling control system. 3,155,277, 11–3–64, Cl. 222—55.
Fathauer, George H., to Radson Engineering Corp. Fuel consumption indicator. 3,118,302, 1–21–64, Cl. 73—114.
Fathauer, George H., to Harvey-Wells Corp. Transistor camera circuitry. 3,148,303, 9–8–64, Cl. 315—22.
Fatzer, George D., to International Business Machines Corp. Method for plating palladium. 3,150,065, 9–22–64, Cl. 204—47.
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Nikles, Erwin, Batzer, and Fatzer. 3,138,618.
Fauber, Carl R., and J. A. Bernard, to General Motors Corp. Process for making bonding pulleys. 3,147,325, 9–1–64, Cl. 264—260.
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Faucett, James W., W. W. Windish, and R. A. De Senna, to Miles Laboratories, Inc. Enzyme precipitation process. 3,119,750, 1–28–64, Cl. 195—68.
Fauchere, Jean, to Richier S.A. Hydraulic devices for synchronizing the hydraulic motors associated with the wheels of a vehicle. 3,149,464, 9–22–64, Cl. 60—53.
Fauconnier, Marcel, ½ to Compagnie de Signaux et d'Entreprises Electriques. Handing and storage system. 3,148,-785, 9–15–64, Cl. 214—16.1.
Faul, Karl. Brake. 3,137,367, 6–16–64, Cl. 188—70.
Faul, Thomas L., to Aqua-Marine Mfg. Ltd. Deck hardware. 3,118,418, 1–21–64, Cl. 114—218.
Faul, Thomas L., to Aqua-Marine Mfg. Ltd. Self-aligning chock. 3,125,978, 3–24–64, Cl. 114—218.
Faulconer, Henry A. Means and method of effecting a soldered connection. 3,119,006, 1–21–64, Cl. 219—85.
Faulconer, Henry A. Soldering tool. 3,152,239, 10–6–64, Cl. 219—26.
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Bird, Martin J. 3,163,465.
Faulk, Kenneth H., to Cities Service Research and Development Co. Recovery of volatile material from particulate solids. 3,118,741, 1–21–64, Cl. 34—9.
Faulkner, Alfred H., and D. K. Melvin, to Automatic Electric Laboratories, Inc. Electronic switching system. 3,153,122, 10–13–64, Cl. 179—26.
Faulkner, Arthur M., to The Plessey Co. Ltd. Sealing bungs for electrical connector and lead-through arrangements and method. 3,153,697. 10–20–64, Cl. 174—151.
Faulkner, Buck, to Electro-Sound Corp. Alarm system and switch means. 3,160,720, 12–8–64, Cl. 200—44.
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Faulkner, Willard J., to V-M Corp. Multi-track magazine tape recorder with movable head and elastic band drive for tape and reels. 3,154,308, 10–27–64, Cl. 274—11.
Faulls, Everett S., Jr., to Amtec, Inc. Closure for flexible bags. 3,141,221, 7–21–64, Cl. 24—30.5.
Faulstich, George W. Bottle closure having tear strip and reclosure features. 3,120,900, 2–11–64, Cl. 215—46.
Faulstich, Marga, to Jenaer Glaswerk Schott & Gen. Lead glass for optical use. 3,149,984, 9–22–64, Cl. 106—53.
Faulstich, Marga, to Jenaer Glaswerk Schott & Gen. Optical glass. 3,150,990, 9–29–64, Cl. 106—47.
Faultless Caster Corp.: *See*—
Skrupas, John A., Godwin, and Stollman. 3,117,655.
Faunce, Stuart F., to John Wood Co. Liquid carrier with disposable flexible inner liner container. 3,137,415, 6–16–64, Cl. 222—183.
Faure, Henri, G. de Chatelperron, and G. Etienney. Apparatus for steering a moving body such as a toy vehicle along a preset path. 3,151,865, 10–6–64, Cl. 273—1.
Faure, Henry. Universal ball joint. 3,128,613, 4–14–64, Cl. 64—21.
Faure, Simon. Hauling and hoisting gear incorporating a metal cable. 3,142,879, 8–4–64, Cl. 24—134.
Faurot, George W. Anti-splash watering and feeding device for pet animals. 3,152,576, 10–13–64, Cl. 119—72.
Faus, Harold T., to General Electric Co. Moisture indicator. 3,161,056, 12–15–64, Cl. 73—336.5.
Fauser, Donald L., and E. R. Kolb, to Harris-Intertype Corp. Magnetic liquid developer and method for electrostatic images. 3,155,531, 11–3–64, Cl. 117—37.
Fauser, Giacomo, to Montecatini Societá Generale per l'Industria Mineraria e Chimica. Process for production of acetylene and other products by partial combustion of hydrocarbons. 3,140,323, 7–7–64, Cl. 260—679.
Fauser, Richard F., to Aurora Corp. of Illinois. Solenoid assembly means for actuating piano playing means. 3,126,-782, 3–31–64, Cl. 84—246.
Faust, Charles L., and J. E. Clifford, to The Battelle Development Corp. Electrolytic cutting. 3,130,138, 4–21–64, Cl. 204—143.
Faust, Claude M., to Code-A-Phone Electronics, Inc. Signal actuated control circuit. 3,119,027, 1–21–64, Cl. 307—88.5.
Faust, Donald M.: *See*—
Farmer, Stanley E., Faust, and Weinert. 3,145,866.
Faust, Donald M., and D. Wight, to Cascade Mfg. Co. Clamping mechanism. 3,127,209, 3–31–64, Cl. 294—88.
Faust, John: *See*—
Kaptur, Robert E., and Faust. 3,151,717.
Faust, John A., and M. Sahyun; said Faust assor. to Melville Sahyun d.b.a. Sahyun Laboratories. N-methyl-5-cyclohexylsalicylamide. 3,162,685, 12–22–64, Cl. 260—559.
Faust, John W., Jr.: *See*—
Dermatis, Steve N., and Faust. 3,129,061.
Dermatis, Steve N., and Faust. 3,162,507.

Faust, John W., Jr., and H. F. John, to Westinghouse Electric Corp. Dendritic seed crystals having a critical spacing between three interior twin planes. 3,130,040, 4–21–64, Cl. 75—.5.

Faust, Martin H., to Penn-Dale Knitting Mills, Inc. Jockey type shorts. 3,119,120, 1–28–64, Cl. 2—224.

Faust, Wayne J., to Universal Oil Products Co. Vibratory sorption separation process utilizing molecular sieves. 3,121,757, 2–18–64, Cl. 260—676.

Faustel, Inc.: *See*—
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Stelling, Walter R., Jr. 3,163,109.
Stelling, Walter R., Jr., and Wittel. 3,163,406.

Faustman, Carl O. Paint roller cleaner. 3,139,891, 7–7–64, Cl. 134—138.

Fauteux, Henri A. Clothes pins. 3,135,034, 6–2–64, Cl. 24—137.

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Fauth, William L., Jr.: *See*—
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Fautz, Howard C.: *See*—
Boardman, Russell T., and Fautz. 3,148,674.

Favin, David L.: *See*—
Anderson, Theodore C., and Favin. 3,150,268.
Anderson, Theodore C., and Favin. 3,157,798.

Favin, David L., to Bell Telephone Laboratories, Inc. Unbalanced to balanced amplifier. 3,142,019, 7–21–64, Cl. 330—14.

Favis, Dimitrios V., to Esso Research and Engineering Co. Synthesis of alkyl aromatics and catalyst therefor. 3,136,-824, 6–9–64, Cl. 260—671.

Favre, Donavon L. Low temperature heat engine and air conditioner. 3,129,566, 4–21–64, Cl. 62—88.

Favre, John A., and D. E. Smith, to Phillips Petroleum Co. Water analysis. 3,118,735, 1–21–64, Cl. 23—230.

Favre, Robert, to Fabriques Movado. Electromagnetic system for the maintenance of the movement of a movable member. 3,117,265, 1–7–64, Cl. 318—132.

Favrot, Paul, to Landis-Gendron S.A. Dynamic balancing system for rotating structures. 3,158,039, 11–24–64, Cl. 74—573.

Fawcett, Frank S., R. D. Lipscomb, and W. C. Smith, to E. I. du Pont de Nemours and Co. Process for preparing fluorinated organic isocyanates. 3,118,923, 1–21–64, Cl. 260—453.

Fawcett, Paul W., and D. Allfree, to Acme Steel Co. Strapping machine. 3,129,655, 4–21–64, Cl. 100—18.

Fawdry, Charles F., to Headley Townsend Backhouse. Sheet separating and forwarding machine. 3,127,166, 3–31–64, Cl. 271—11.

Fawick Corp.: *See*—
Allen, John D., and Holt. 3,120,243.
Allen, John D., and Stremple. 3,129,720.
Fawick, Thomas L. 3,129,982.

Fawick, Thomas L., to Fawick Corp. Oil well pipe and casing protector. 3,129,982, 4–21–64, Cl. 308—4.

Fawkes, Donald G., to Henry Pratt Co. Self-locking direct nut operator. 3,127,967, 4–7–64, Cl. 192—8.

Fawn Engineering Co.: *See*—
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Fay, Allyn C. Toilet bowl attachment means. 3,125,765, 3–24–64, Cl. 4—252.

Fay, James P., to The Teletrak Corp. Electric motor control by shifting brushes. 3,135,907, 6–2–64, Cl. 318—361.

Fay, Lawrence J., to Equipto Electronics Corp. Door latch for modular cabinet. 3,158,016, 11–24–64, Cl. 70—82.

Fay, Norman D.: *See*—
Hill, William J., and Fay. 3,121,484.

Fay, Philip S., and R. A. Rightmire, to The Standard Oil Co. Energy conversion process. 3,141,796, 7–21–64, Cl. 136—86.

Fay, Rudolph J., to Peters Machinery Co. Sandwiching machine. 3,119,352, 1–28–64, Cl. 107—1.

Fayard, Georges G., to Office National d'Etudes et de Recherches Aeronautiques. Machine control. 3,127,506, 3–31–64, Cl. 235—152.

Faycik, Ronald J.: *See*—
Poli, Albert A., Jr., and Faycik. 3,162,217.

Fayer, James V.: *See*—
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Ancet, Victor M. J., and Fayolle. 3,116,762.

Fayolle, Marius: *See*—
Ancet, Victor M. J., and Fayolle. 3,116,762.

Fazio, Charles P.: *See*—
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Fazio, Dominick: *See*—
Oldenburg, Kenneth F., and Fazio. 3,147,943.

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Heggen, Birger A., and Fazioli. 3,137,102.
Olton, Dirck J., and Fazioli. 3,134,206.
Olton, Dirck J., and Fazioli. 3,154,896.

Fazis, Hermann, to Farberei und Appretur Schusterinsel G.m.b.H. Apparatus for displacing the chain-walls of tenter frames. 3,150,431, 9–29–64, Cl. 26—57.

Feagan, Robert L. Fitting. 3,131,724, 5–5–64, Cl. 138—95.

Feagin, Roy C.: *See*—
Horton, Robert, Ashbrook, and Feagin. 3,157,926.

Fear, James V. D., to Sun Oil Co. Hydrogenation process. 3,160,579, 12–8–64, Cl. 208—143.

Fearing, Ralph B., to Stauffer Chemical Co. Low-freezing methyl parathion solutions. 3,145,139, 8–18–64, Cl. 167—30.

Fearnside, Kenneth, and D. W. Righton, to Smiths America Corp. Automatic trimming systems for the control surfaces of a moving craft. 3,143,693, 8–4–64, Cl. 318—8.

Fearon, Robert E., to Well Completions, Inc. Apparatus for producing a high intensity electron stream used to excite characteristic radiation of elements. 3,120,610, 2–4–64, Cl. 250—49.5.

Feaster, Donavon L., and J. H. Mann, to Bowmar Instrument Corp. Speed changing gear mechanism. 3,117,469, 1–14–64, Cl. 74—781.

Feaster, Gene R.: *See*—
Brodie, Ivor, and Feaster. 3,148,056.

Feather, Francis G. Protective case for books. 3,159,327, 12–1–64, Cl. 229—23.

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Dehn, Frederick C., and Feathers. 3,148,041.

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Knox, John A., Featherston, and Lasater. 3,125,518.

Feay, Darrell C., J. C. Mackey, and J. B. Byrne, to The Dow Chemical Co. Polymerization catalyst mixture of a selenium compound, a titanium salt and a Lewis acid. 3,121,-706, 2–18–64, Cl. 260—94.9.

Fechkowsky, Paul, to Burroughs Corp. Sheet transporting apparatus. 3,131,931, 5–5–64, Cl. 271—48.

Fecho, Rhine G., and C. H. Wade, to Whirlpool Corp. Method and means for disposing of a lint in a laundry apparatus. 3,139,633, 7–7–64, Cl. 8—158.

Fechtig, Bruno: *See*—
Prelog, Vladimir, Vischer, Bickel, and Fechtig. 3,137,-705.

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Feder, Herbert S., and G. B. Thomas, Jr., to Bell Telephone Laboratories, Inc. Telephone signaling circuit. 3,118,019, 1–14–64, Cl. 179—18.

Feder, Jack B., to Halcon International, Inc. Process for the production of esters. 3,135,784, 6–2–64, Cl. 260—476.

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Eisele, Julius, Federkiel, Schuster, Gehm, Tartter, Graser, Rohland, and Stoeckl. 3,154,567.
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Federn, Klaus, to Carl Schenck Maschinenfabrik G.m.b.H. Rotor balancing machine. 3,152,482, 10–13–64, Cl. 73—460.
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Fehling, Hans R., and E. H. Harvey, to I. R. C. Ltd. Reservoir seal for writing instrument. 3,140,695, 7–14–64, Cl. 120—42.4.
Fehling, Hans R., and E. H. Harvey, to I.R.C. Ltd. Method and apparatus for preparing cratered balls. 3,145,286, 8–18–64, Cl. 219—69.
Fehling, Heinz, and A. Treptow, to Licentia Patent-Verwaltungs G.m.b.H. Partitioned extinguishing chamber with imperforate partition in direct contact with arc runners. 3,139,502, 6–30–64, Cl. 200—144.
Fehrenbach, Alfred, A. Dörries, and H. Fraatz, to Licentia Patent-Verwaltungs G.m.b.H. Thermal current switch. 3,119,912, 1–28–64, Cl. 200—116.
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Feibelman, Hans J., to Coro, Inc. of Rhode Island. Article of jewelry and method of manufacture thereof. 3,147,587, 9–8–64, Cl. 59—80.
Feibush, Alexander, to Alex Mfg. Corp. Shut off valve for hydraulic fluid vehicle braking systems. 3,118,985, 1–21–64, Cl. 200—82.
Feibush, Alexander, to Alex Mfg. Corp. Safety device for fluid pressure systems. 3,134,391, 5–26–64, Cl. 137—118.
Feichtinger, Heinrich, to Georg Fischer Aktiengesellschaft. Device for treating metallic melts. 3,137,753, 6–16–64, Cl. 266—34.
Feichtmeir, Thomas V., and K. D. Jenkins, to Research Specialties Co. Semi-automatic sampling and diluting apparatus. 3,127,062, 3–31–64, Cl. 222—135.
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Feick, George, III, and W. F. Olds, to Anaconda Wire and Cable Co. Oil insulated impregnant for high voltage electrical apparatus. 3,163,705, 12–29–64, Cl. 174—25.
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Feid, Jack T., to Owens-Corning Fiberglas Corp. Film faced acoustical body and method of making same. 3,151,700, 10–6–64, Cl. 181—33.
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Fein, Marvin M., and M. Israel, to Thiokol Chemical Corp. Reaction of isocyanates and boranes and products thereof. 3,147,296, 9–1–64, Cl. 260—453.
Feinberg, Albert E., and P. Berger. Gas discharge lamp circuits employing saturable type transformer. 3,125,705, 3–17–64, Cl. 315—278.
Feinberg, Albert E., and J. Neiditch, to Advance Transformer Co. Method of producing transformer core laminations from strip stock. 3,153,961, 10–27–64, Cl. 83—43.
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Feinberg, Maurice. Fail safe thermostat. 3,128,043, 4–7–64, Cl. 236—93.
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Feingold, Sherwin K., and J. P. Magnin, to Electro-Mechanical Research, Inc. Current transformer coupling means for time sequential switching of low level signals. 3,135,-832, 6–2–64, Cl. 179—15.
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Fekete, Frank, to H. H. Robertson Co. Polymerizable compositions of ethylenically unsaturated amides. 3,133,892, 5–19–64, Cl. 260—33.4.
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Felburn, John P. Running gear for vehicles. 3,151,854, 10–6–64, Cl. 267—52.
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Feld, Erich, O. Hensel, and J. Roos, to Buttner-Werke Aktiengesellschaft. Helical belt drier. 3,133,798, 5–19–64, Cl. 34—187.
Feld, Jack, and D. W. Weiss, to Fairchild Stratos Corp. Rotary diaphragmed pneumatic actuator. 3,137,214, 6–16–64, Cl. 92—48.
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Feldermann, John B., to Walton Laboratories, Inc. Coupling structure for a float-valve assembly. 3,142,310, 7–28–64, Cl. 137—434.
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Feldhake, Ralph H., to Reilly Tar & Chemical Corp. Process of preparing pyridyl alkyl ketones. 3,155,676, 11–3–64, Cl. 260—297.
Feldhake, Ralph H., to Reilly Tar & Chemical Corp. Synthesis of pyridyl alkyl ketones. 3,155,677, 11–3–64, Cl. 260—297.
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Wu, Yao H., Feldkamp, and Gould. 3,118,907.
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Feldkamp, Rolland F., to Sterling Drug Inc. Tropyl esters of α-cycloalkylalkanoic acids. 3,145,211, 8–18–64, Cl. 260—292.
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Feldman, Charles, to Melpar, Inc. Microminiature circuit board and methods of making same. 3,148,310, 9–8–64, Cl. 317—101.
Feldman, Donald W., and B. R. McAvoy, to Westinghouse Electric Corp. High speed microwave switch having bypass means for cancelling signal leak during blocked condition. 3,136,963, 6–9–64, Cl. 333—7.
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Feldmayer, John W., to United States of America, Navy. Panel illumination. 3,130,511, 4–28–64, Cl. 40—130.
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Felix, Ernst, to Zellweger Ltd., Uster Factories for Apparatus and Machines. Means for averaging a variable function. 3,145,297, 8–18–64, Cl. 235—183.
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Felton, Bruce C., H. S. Hoffman, Jr., and A. S. Martello, to International Business Machines Corp. Magnetic memory sensing system. 3,122,724, 2–25–64, Cl. 340—174.
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Felton, Joseph. Method of treating coffee and products obtained thereby. 3,143,426, 8–4–64, Cl. 99—71.
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Fenner, Terrence W., R. M. Reinhardt, and J. D. Reid, to United States of America, Agriculture. Process for the production of dyed cellulosic textile materials with wet and dry wrinkle resistance. 3,130,001, 4–21–64, Cl. 8—17.
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Ferguson, Carl S., and R. D. Earle, to A. E. Staley Mfg. Co. Polymeric composition and method for treating plants therewith to supply moisture. 3,160,985, 12–15–64, Cl. 47—1.
Ferguson, Donald J. Cleaning shell for shotguns. 3,147,708, 9–8–64, Cl. 102—41.
Ferguson, Edgar A., Jr., to W. L. Gould. Procaine orotate. 3,118,890, 1–21–64, Cl. 260—256.4.
Ferguson, Edgar A., Jr., to Umimed, Inc. Method of relieving pain with (pyridyl-lower alkyl)-amines. 3,149,034, 9–15–64, Cl. 167—55.
Ferguson, Harold W., to The Stanley Works. Retractable door pivot assembly. 3,143,760, 8–11–64, Cl. 16—176.
Ferguson, Harry, Research Ltd.: *See*—
Hill, Claude. 3,125,202.
Ferguson, Hille & Associates, Inc.: *See*—
Gizeski, Terrence. 3,135,493.
Ferguson, Hugh C., to Davy and United Engineering Co. Ltd. Transfer of hot bodies from furnaces. 3,129,829, 4–21–64, Cl. 214—18.
Ferguson, Jack B., 60% to Robert B. Ferguson. Well pumps. 3,162,143, 12–22–64, Cl. 103—179.
Ferguson, Jacob C., Jr. Tooth paste dispenser with tube and brush support. 3,155,279, 11–3–64, Cl. 222—93.
Ferguson, John H., Jr.: *See*—
Bunger, Dennen J., and Ferguson. 3,151,452.
Ferguson, John H., Jr., and D. J. Bunger, to The Bendix Corp. Hydraulic mechanical control for air breathing starter. 3,151,451, 10–6–64, Cl. 60—39.14.
Ferguson, John L., Jr., to Textile Machine Works. Compression apparatus. 3,125,842, 3–24–64, Cl. 53—387.
Ferguson, John R., to Morphy-Richards (Astral) Ltd. Refrigeration evaporators. 3,142,163, 7–28–64, Cl. 62—517.
Ferguson-Landoe Box Co.: *See*—
Hodapp, Armand E. 3,146,936.
Ferguson, Paul R. Pivoted door mounting. 3,152,355, 10–13–64, Cl. 16—130.
Ferguson Radio Corp. Ltd.: *See*—
Corney, John V. J. 3,160,763.
Korda, Paul. 3,153,755.
Ferguson, Robert B.: *See*—
Ferguston, Jack B. 3,162,143.
Ferguson, Thomas S. Sweeping attachment. 3,121,248, 2–18–64, Cl. 15—257.9.
Ferko, Tibor: *See*—
Nagy, Vojtech, Dvorak, Sisler, Keda, Ferko, and Zembery. 3,130,114.
Ferland, Germain, to Hupp Corp. Range door construction. 3,150,658, 9–29–64, Cl. 126—191.
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Scott, Don. 3,160,508.
Scott, Don. 3,162,537.
Fermenta S.A.: *See*—
Bise, Henri, and Weber. 3,151,748.
Fermier, Rex M. A., to Lovejoy Flexible Coupling Co. Variable speed drive mechanism. 3,117,461, 1–14–64, Cl. 74—230.17.
Fernandes, Wilbur E.: *See*—
Moore, Francis C., and Nicely. 3,148,649.
Fernandez, Humbert M., to Martin-Marietta Corp. Nonreference pulse position demodulator. 3,142,806, 7–28–64, Cl. 329—107.
Fernandez, Manuel C., 50% to C. C. Goetz. Auxiliary system for blind flying by radio. 3,136,998, 6–9–64, Cl. 343—112.
Ferneau, Richard H.: *See*—
Weil, Burt, Ferneau, and Bourgraf. 3,137,511.
Ferneau, Richard H., to Ferno Mfg. Co. Combined stretcher and stair chair. 3,122,758, 3–3–64, Cl. 5—82.
Ferner, Jack D.: *See*—
Bromfield, Morton S., and Ferner. 3,161,898.
Ferno Mfg. Co.: *See*—
Ferneau, Richard H. 3,122,758.
Fernseh G.m.b.H.: *See*—
Bahring, Herbert, Schwerer, and Brammer. 3,151,820.
Schneider, Hans-Dieter. 3,124,716.
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Le Chaptois, Raymond. 3,132,728.
Ferrand, Marcel. Abrasive tool. 3,141,270, 7–21–64, Cl. 51—205.
Ferrand, Marcel. Plant receptacles. 3,150,029, 9–22–64, Cl. 161—55.
Ferranti, Denis, Meters Ltd.: *See*—
Wolfenden, Ronald H. 3,152,758.
Wolfenden, Ronald H., and Hycz. 3,116,875.
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Barnes, Jeffrey W. 3,147,628.
Delaney, John, and Hallsworth. 3,139,828.
Drummond, Robert M., and Manners-Smith. 3,163,057.
Dunsbee, John. 3,132,715.
Shaw, Jack V. 3,142,775.
Shepherd, Alexander T. 3,154,688.
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Taylor, Maurice K. 3,140,553.
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Ferranti Packard Electric Ltd.: *See*—
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Ferrar, Robert C., and H. A. French, to International Telephone and Telegraph Corp. Diversity receiving system using a low noise parametric amplifier system. 3,118,113, 1–14–64, Cl. 325—485.
Ferrara, Achille K., to Ultramatic Equipment Co. Inc. Vibratory finishing machine. 3,134,207, 5–26–64, Cl. 51—163.
Ferrara, Dominick. Method of making bowls and the like. 3,153,433, 10–20–64, Cl. 144—326.
Ferrara, Rudolph A., to General Motors Corp. Locking means for releasable bolsters and side wings for vehicle seats. 3,161,076, 12–15–64, Cl. 74—532.
Ferrara, Rudolph A., and K. C. Hammer, to General Motors Corp. Seat belt reel lock. 3,147,996, 9–8–64, Cl. 297—388.
Ferrari, Alfredo, and A. Gasser. Camera focusing mechanism. 3,119,891, 1–28–64, Cl. 88—57.
Ferrari, Andrés, to Technicon Instruments Corp. Ultrafiltration apparatus and method. 3,131,143, 4–28–64, Cl. 210—22.
Ferrari, Andrés, Jr., to Technicon Instruments Corp. Fluid treatment apparatus. 3,116,754, 1–7–64, Cl. 137—583.
Ferrari, Giorgio, to Simes S.p.A. Phenyl-imidazo (1,2-a) pyridine-6-carboxylic acids and their esters. 3,133,076, 5–12–64, Cl. 260—295.
Ferrari, Marco, to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Production of vacuum-shaped articles of polypropylene. 3,157,719, 11–17–64, Cl. 264—92.
Ferrari, William A., O. M. Anderson, and F. H. Dean. Refuse vehicle with load compacting and unloading mechanism. 3,161,305, 12–15–64, Cl. 214—82.
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Ferraro, George G. and A. J. Food vending machine. 3,160,255, 12–8–64, Cl. 194—1.
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Ferree, Roy E., to Treesdale Laboratories, Inc. Exothermic material in a non-metallic refractory casing. 3,142,874, 8–4–64, Cl. 22—147.
Ferreira, Joseph J., to Joseph F. Corcoran Shoe Co., Inc. Injection molded shoe bottom and shoe having same. 3,116,566, 1–7–64, Cl. 36—30.
Ferrel, Robert E., to United States of America, Agriculture. Preparation of directly consumable food ration wheat products. 3.162,535, 12–22–64, Cl. 99—80.
Ferrell, Allen M. Coin wrapper holding and loading device. 3,120,235, 2–4–64, Cl. 133—8.
Ferrell, Howard H., and C. F. Knutson, to Continental Oil Co. Flow regulator. 3,139,747, 7–7–64, Cl. 73—38.
Ferrell, Russell A., to H. H. Robertson Co. Sunshade panel unit. 3,129,793, 4–21–64, Cl. 189—34.
Ferrell, Russell A., to H. H. Robertson Co. Connecting means for building panels. 3,139,961, 7–7–64, Cl. 189—88.
Ferrell, Wesley: *See*—
McColm, Eugene M., and Ferrell. 3,150,435.
Ferren, Richard: *See*—
Goshorn, Roland H., Ferren, and Smith. 3,155,656.
Ferrera, Albert J. Combination spacers and silencers for Venetian blinds. 3,159,864, 12–8–64, Cl. 16—1.
Ferri, Antonio, to General Applied Science Laboratories, Inc. Ram-jet engine. 3,158,990, 12–1–64, Cl. 60—35.3.
Ferri, Gustave L., Jr. Container with dispensing spout. 3,128,016, 4–7–64, Cl. 222—212.
Ferrier, Duncan C., and W. G. Parr, to British Nylon Spinners Ltd. Melt-spinning synthetic polymer filaments. 3,129,272, 4–14–64, Cl. 264—85.
Ferrigno, Thomas H., to Minerals & Chemical Philipp Corp. Filled polyurethane foams and method for making same. 3,150,109, 9–22–64, Cl. 260—2.5.
Ferris, David R., to Kysor Heater Co. Thermostatic control valve. 3,135,495, 6–2–64, Cl. 251—366.
Ferris, Ernie A., to Pacific Semiconductors, Inc. Article segregating and counting apparatus. 3,127,001, 3–31–64, Cl. 198—33.
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Dewees, Vincent E., and Ferris. 3,121,516.
Ferris, Harold A., to Canadian Marconi Co. Take-off monitor. 3,142,982, 8–4–64, Cl. 73—178.
Ferris, James J., and O. C. Mayer, to Eriez Mfg. Co. Permanent magnetic pulley. 3,163,596, 12–29–64, Cl. 209—219.
Ferris, Lowell D. Cut-off machines. 3,118,337, 1–21–64, Cl. 83—201.
Ferris, Nathaniel J., to Theodore E. Ferris & Sons. Ship of reduced structural weight for given cargo weight carrying capacity. 3,162,169, 12–22–64, Cl. 114—72.
Ferris, Nathaniel J., and T. R. Galanor, to Theodore E. Ferris & Sons. Ship with increased cargo capacity. 3,162,168, 12–22–64, Cl. 114—72.
Ferris, Robert C., and J. W. Christensen, to Chem Lab Products, Inc. Algaecide stick composition. 3,130,124, 4–21–64, Cl. 167—42.
Ferris, Robert G., to Starline, Inc. Material unloader and spreader with extensible flails. 3,161,412, 12–15–64, Cl. 275—3.
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Ferro, Anthony J., to Baker Perkins, Inc. Rack type bread cooler. 3,160,261, 12–8–64, Cl. 198—85.

Ferro Corp.: *See*—
Buckley, Robert A. 3,142,659.
Elliott, Stanley B. 3,120,698.
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Jasionowski, Joseph J. 3,162,754.
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Pender, Harry J. 3,159,467.
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Frommelt, Horace A., and Watling. 3,124,864.

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Ferry, Leon J. Dual sliding jaw wrench. 3,141,363, 7–21–64, Cl. 81—128.

Ferry, Richard P.: *See*—
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Ferry, Royal T., Jr., and R. A. Mellgren, to Scovill Mfg. Co. Aerosol valve which also functions as a pressure filling means. 3,158,297, 11–24–64, Cl. 222—394.

Ferstandig, Louis L.: *See*—
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Ferstandig, Louis L., and P. C. Condit, to California Research Corp. Process for producing nitrosylsulfuric acid. 3,149,-913, 9–22–64, Cl. 23—139.

Fertier, Raymond. Individual safety elevator. 3,150,744, 9–29–64, Cl. 182—142.

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Fertig, Joseph, M. Skoultchi, and A. I. Goldberg, to National Starch and Chemical Corp. Ethylenically unsaturated phenyl salicylate derivatives. 3,141,903, 7–21–64, Cl. 260—473.

Fertig, Raymond B.: *See*—
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Fertig, Raymond B., to Union Carbide Corp. Continuously self checking scanner alarm system. 3,119,103, 1–21–64, Cl. 340—214.

Fertig, Raymond B. Sweep-failure protective circuit for cathode-ray tubes. 3,146,372, 8–25–64, Cl. 315—20.

Ferwerda, Ray. Axially and circumferentially movable boom for digging apparatus. Re. 25,664, 10–20–64, Cl. 214—141.

Ferwerda, Ray. Digging apparatus. 3,148,788, 9–15–64, Cl. 214—138.

Ferwerda, Ray. Tooth arrangement for earth digging apparatus. 3,117,386, 1–14–64, Cl. 37—142.

Fesco, John J., to Studley Paper Co., Inc. Paper bags. 3,163,-352, 12–29–64, Cl. 229—62.

Feser, Edward J. Container rack. 3,126,121, 3–24–64, Cl. 220—102.

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Festag, Werner, to Th. Goldschmidt, A.-G. Process of producing surface coatings. 3,131,088, 4–28–64, Cl. 117—161.

Feth, Georg: *See*—
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Fetherston, Robert T. Vane type pump. 3,130,681, 4–28–64, Cl. 103—120.

Fetner, Campbell B., and C. W. Jarvis, 50% to Gas Heat Engineering Corp., and 50% to Rock Hill Printing & Finishing Co. Apparatus for applying heat treatment to web material. 3,150,864, 9–29–64, Cl. 263—3.

Fetrow, Gene B. and G. S. Pizza roller device. 3,157,135, 11–17–64, Cl. 107—50.

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Fetscher, Charles A., to Nopco Chemical Co. Radioactive source comprising a polyamidoxime or a polyhydroxamic acid complexed with a radioactive metal. 3,154,499, 10–27–64, Cly. 252—301.1.

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Fetter, Neil R., to United States of America, Navy. Method of making decaborane reaction product with hydrazines. 3,153,567, 10–20–64, Cl. 23—14.

Fetter, Richard W., to United States of America, Navy, Acoustic generator. 3,131,671, 5–5–64, Cl. 116—137.

Fetterley, Guy H., deceased, by J. A. Pollard, executor. Norton Co. Process for the manufacture of boron carbide molding powders. 3,137,584, 6–16–64, Cl. 106—43.

Fetterman, David S.: *See*—
Fainberg, Arnold H., Fetterman, and Hauptschein. 3,152,051.

Fetterolf, Luther D.: *See*—
Wagner, Irwin D., and Fetterolf. 3,128,172.

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Fetzer, Martin, and A. Lichtenberger, to Robert Bosch, G.m.b.H. Headlight control arrangement. 3,135,893, 6–2–64, Cl. 315—83.

Fetzko, Andrew. Trailer tongue extension. 3,155,399, 11–3–64, Cl. 280—482.

Feu, Miguel, also known as M. F. Serrahima, to L. J. F. Nagode Ski-type bob sled. 3,140,099, 7–7–64, Cl. 280—16.

Feu, Miguel, also known as M. F. Serrahima, to L. J. F. Nagode. Motorized snow vehicle. 3,140,752, 7–14–64, Cl. 180—5.

Feuer, Henry, and W. A. Swarts, to Purdue Research Foundation. β-N-nitro-N-trinitroalkyl isocyanates and derivatives thereof. 3,157,683, 11–17–64, Cl. 260—453.

Feuge, Reuben O., and R. K. Willich, to United States of America, Agriculture Esterification process. 3,119,849, 1–28–64, Cl. 260—404.8.

Feuillade, Georges M., and J. R. Delmas. Process for applying electrodes on semiconductors. 3,153,600, 10–20–64, Cl. 117—213.

Feuillastre, Auguste A. A. Geometrically progressive gear box. 3,159,044, 12–1–64, Cl. 74—342.

Feuilly, Jules E. J., to Societe Generale Isothermos. Automatic slack adjusters for brakes. 3,130,820, 4–28–64, Cl. 188—199.

Feuilly, Jules E. J., to Societe Generale "Isothermos." Apparatus for pneumatically adjusting brake linkages. 3,143,-193, 8–4–64, Cl. 188—196.

Feuilly, Jules E. J., to Societe Generale "Isothermos." Brake adjustment device for non-return linkages. 3,160,242, 12–8–64, Cl. 188—202.

Ffoulkes, Arthur K. F., to American Machine & Foundry Co. Cigarette making machine. 3,138,163, 6–23–64, Cl. 131—20.

Fiala, Ernst J. H., and R. Andres, to Daimler-Benz Aktiengesellschaft. Shifting mechanism. 3,158,178, 11–24–64, Cl. 137—596.2.

Fianke, Günter: *See*—
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Giacosa, Dante, and Torazza. 3,160,148.
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Lytton, Kenneth G. 3,142,348.
Lytton, Kenneth G., Barnes, and Wise. Re. 25,609.
Lytton, Kenneth G., and Wise. 3,158,291.

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Fibercraft Products, Inc.: *See*—
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Fiberfil Corp.: *See*—
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Fiberwoven Corp., The: *See*—
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Fibikar, Robert J., and W. I. Senger, to Gisholt Machine Co. Fully automatic single station balancing machine. 3,159,-059, 12–1–64, Cl. 77—5.

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Fibreboard Paper Products Corp.: *See*—
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Striplin, Charles D., and Smith. 3,130,649.
Walker, James H., and Bower. 3,144,816.
Wuerthner, Ted W. 3,119,546.

Fibus, Murray M. Newspaper delivery tube. 3,134,538, 5–26–64, Cl. 232—17.

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Schwerdhöfer, Hans J. 3,134,274.
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Fick, Charlie W.: *See*—
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Ficken, Geoffrey E., to Ilford Ltd. 3-pyrazolidinone carboxylic acid derivatives. 3,153,654, 10–20–64, Cl. 260—310.

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Holstein, Alvin W., and Ficken. 3,144,959.

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Fiddler, Theodore E. Nut combination. 3,126,039, 3–24–64, Cl. 151—41.75.

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Fidell, Louis I., and J. M. Mecco, to American Cyanamid Co. Continuous dyeing method for fibrous materials and compositions therefor. 3,124,412, 3–10–64, Cl. 8—54.

Fidelman, J. George, to Horizons Inc. Photographic process. 3,154,416, 10–27–64, Cl. 96—73.

Fiechter, Rene A. Setting means for watertight clock. 3,129,557, 4–21–64, Cl. 58—85.5.

Fiechter, Rene A., to American Railroad Curvelining Corp. Method of making railway track. 3,139,364, 6–30–64, Cl. 156—160.

Fiechter, Rene A. Power clutch for the main spring of watch movements and the like. 3,142,955, 8–4–64, Cl. 58—83.

Fiechter, Rene A., and H. Gumprecht. Convertible road and railway track vehicle. 3,130,686, 4–28–64, Cl. 105—215.

Fiedelman, Howard W., and R. L. Lintvedt, to Morton Salt Co. Process for producing salt. 3,155,458, 11–3–64, Cl. 23—300.

Fiedler, Edward D., to Knapp-Monarch Co. Electric toothbrush. 3,145,404, 8–25–64, Cl. 15—23.

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Fiedler, Howard C., to General Electric Co. Process for producing cube-on-edge oriented silicon iron. 3,147,158, 9–1–64, Cl. 148—111.

Fiedler, Martin, to Chicago Forging & Mfg. Co. Hinge. 3,135,011, 6–2–64, Cl. 16—128.1.

Fiedler, Stuart O.: *See*—
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Fiedler, William S., S. O. Fiedler, deceased (by W. S. Fiedler, administrator), and J. W. Frost. Introducing combustible fluid to internal combustion engine fuel line. 3,148,670, 9–15–64, Cl. 123—127.

Fiedler, Willy A., to United States of America, Navy. Support system for tube launched missile. 3,124,040, 3–10–64, Cl. 89—1.7.

Fiehl, Michael, to International Business Machines Corp. Sheet handling apparatus. 3,160,411, 12–8–64, Cl. 271—4.

Field, Albert. Abrasive tools. 3,129,541, 4–21–64, Cl. 51—194.

Field, Alexander L., Jr., and R. L. Ammon, to Westinghouse Electric Corp. Tantalum base alloys. 3,132,940, 5–12–64, Cl. 75—174.

Field, Alexander L., Jr., A. I. Lewis, deceased (by B. J. Ambrose, administrator), and R. L. Ammon, to Westinghouse Electric Corp. Tantalum base alloys. 3,136,635, 6–9–64, Cl. 75—174.

Field, Alexander L., Jr., R. L. Ammon, and A. I. Lewis, deceased, by B. J. Ambrose for said deceased, to Westinghouse Electric Corp. Tantalum base alloys. 3,140,943, 7–14–64, Cl. 75—174.

Field, Allen I. and S. P. Merchandise display hook. 3,123,331, 3–3–64, Cl. 248—317.

Field, Crosby, to Flakice Corp. Ice making and storage facility. 3,127,756, 4–7–64, Cl. 62—344.

Field Enterprises Educational Corp.: *See*—
Whitney, David C. 3,146,531.

Field, Everett J., and G. B. Mooney, to I-T-E Circuit Breaker Co. Dual tripping characteristic for recloser. 3,152,286, 10–6–64, Cl. 317—22.

Field, Frank H., to Magna American Corp. Reversible tines. 3,151,685, 10–6–64, Cl. 172—556.

Field, George R.: *See*—
Cover, Ralph J., and Field. 3,152,915.

Field, Joseph H.: *See*—
Bienstock, Daniel, and Field. 3,150,923.

Field, Lester M., and J. A. Mitchell, to The Board of Trustees of the Leland Stanford Junior University. Travelling wave tube spectrum analyzer. 3,130,364, 4–21–64, Cl. 324—77.

Field, Philip M.: *See*—
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Field, Philip M., to Beseler, Charles Co. Focusing mechanism for photographic apparatus. 3,148,853, 9–15–64, Cl. 248—125.

Field, Robert B.: *See*—
Kamborian, Jacob S., and J. S., Jr., and Field. 3,144,670.

Field, Sheldon B., to John J. McMullen Associates, Inc. Ship stabilizer. 3,155,066, 11–3–64, Cl. 114—125.

Field, Sidney P.: *See*—
Field, Allen I. and S. P. 3,123,331.

Fieldcrest Mills, Inc.: *See*—
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Mills, Edwin R., and Ray. 3,119,926.
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Fielden Electronics Ltd.: *See*—
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Fielding, Harold C., to Imperial Chemical Industries Ltd. Preparation of isocyanates containing phosphorus. 3,144,302, 8–11–64, Cl. 23—14.

Fielding, Harold C., to Imperial Chemical Industries Ltd. Preparation of phosphoryl isocyanates. 3,145,077, 8–18–64, Cl. 23—14.

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Fierce, William L., R. L. Weichman, and W. J. Sandner, to The Pure Oil Co. Preparation of dialkyl disulfides. 3,134,798, 5–26–64, Cl. 260—453.

Fierce, William L., and R. L. Weichman, to The Pure Oil Co. Process of refining Diesel fuel with nitrogen dioxide. 3,135,680, 6–2–64, Cl. 208—15.

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Fieser, Garland E., and D. W. Schrepel; said Fieser assor., to The Gamewell Co. Multiple program traffic control systems. 3,133,264, 5–12–64, Cl. 340—40.

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Figge, Carroll C. Air admitting smoker's product. 3,152,596, 10–13–64, Cl. 131—198.

Figge, Kurt, F. Kaess, E. Pfluger, and J. Drost, to Metallgesellschaft Aktiengesellschaft, and Suddeutsche Kalkstickstoff-Werke A.G. Production of silicon alloys containing one or more relatively volatile metals. 3,138,450, 6–23–64, Cl. 75—10.
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Fikse, Tyman H. Self-oiling elastic journal bearing. 3,116,-957, 1–7–64, Cl. 308—103.
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Filipek, Louis F., to Owens-Illinois Glass Co. Packing buck. 3,146,567, 9–1–64, Cl. 53—390.
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Filler, Edward Z. Fishing aid. 3,158,953, 12–1–64, Cl. 43—43.14.
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Fillol, Robert. Device for pressing Gruyere cheeses. 3,158,-089, 11–24–64, Cl. 100—244.
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Ungnadner, Peter, and Filsinger. 3,150,580.
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Fingerson, Leroy M., to The Regents of the University of Minnesota. High temperature probe. 3,138,025, 6–23–64, Cl. 73—339.
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Fink, Walter, to Monsanto Chemical Co. Organic halonitrates and method of preparation. 3,127,437, 3–31–64, Cl. 260—465.7.
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First, Robert E., A. L. Stoeckel, and W. H. Stokes, to United States Steel Corp. Apparatus for making hinged two piece wire fabric. 3,157,209, 11–17–64, Cl. 140—102.
Firth, David, to Dodge Mfg. Corp. Pulley and hub construction. 3,134,268, 5–26–64, Cl. 74—230.4.
Firth, Donald, and R. H. Y. Hancock, to Council for Scientific and Industrial Research. Swash plate pumps and motors. 3,117,529, 1–14–64, Cl. 103—162.
Firth, Donald, and R. H. Y. Hancock, to Council for Scientific and Industrial Research. Hydraulic pumps and motors. 3,120,816, 2–11–64, Cl. 103—162.
Firth, Donald, R. H. Y. Hancock, and M. Hobson, to Towler Brothers (Patents) Ltd. Swash plate type rotary machines. 3,124,008, 3–10–64, Cl. 74—60.
Firth, Donald, and R. H. Y. Hancock, to Council For Scientific and Industrial Research. Swash plate rotary machines. 3,130,684, 4–28–64, Cl. 103—162.
Firth, Donald, and R. H. Y. Hancock, to Council for Scientific and Industrial Research. Positive displacement pressure fluid pumps and motors. 3,142,157, 7–28–64, Cl. 60—53.

Firth, Donald, and R. H. Y. Hancock, to Council for Scientific and Industrial Research. Pressure fluid pistons or plungers. 3,142,262, 7–28–64, Cl. 103—162.
Firth, Donald, and R. H. Y. Hancock, to Council for Scientific and Industrial Research. Machine tool drives. 3,155,983, 11–3–64, Cl. 82—28.
Firth, Donald, and R. H. Y. Hancock, to Counsel For Scientific and Industrial Research. Swash plate type hydraulic machines. 3,159,041, 12–1–64, Cl. 74—60.
Firth, John W., to Tee-Pak, Inc. Dry sausage preparation and casings therefor. 3,158,488, 11–24–64, Cl. 99—109.
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Fisch, Paul. Combination coat and pants leg protectors. 3,147,491, 9–8–64, Cl. 2—86.
Fisch, Richard A., deceased; H. Fisch, W. Schloessinger, and W. Guggenheimer, executors, to Anchor Plastics Co., Inc. Metallized plastic extrusion products and method of making same. 3,136,676, 6–9–64, Cl. 156—244.
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Fisch, Willy, to Ciba Ltd. Elastic reaction product of a polyepoxide, a glycol, and an acid anhydride. 3,142,657, 7–28–64, Cl. 260—45.4.
Fischbach, Alfred. Plastic containers. 3,159,305, 12–1–64, Cl. 220—60.
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Harris, Guy H., Ichioka and Fischback. 3,152,136.
Harris, Guy H., Traylor, and Fischback. 3,129,246.
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Fischer, Adolf, H. Pommer, G. Scheuerer, and H. Stummeyer, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Method for controlling plant growth. 3,126,272, 3–24–64, Cl. 71—2.7.
Fischer, Adolf, E. Flickinger, G. Steinbrunn, and H. Stummeyer, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Method of combatting undesirable vegetation. 3,149,955, 9–22–64, Cl. 71—2.6.
Fischer, Albert J. Fastener for securing an electrical device to an opening. 3,144,503, 8–11–64, Cl. 174—52.
Fischer, Alfred, and T. A. Girard, to Heyden Newport Chemical Corp. Metal salt drier compositions. 3,124,475, 3–10–64, Cl. 106—310.
Fischer, Andrew P. Range ventilator. 3,130,661, 4–28–64, Cl. 98—115.
Fischer, Artur. Gasket. 3,149,850, 9–22–64, Cl. 277—227.
Fischer, Donald M., D. L. Kayser, and W. L. Kennedy, to Union Carbide Corp. Pressure fed liquid applicator. 3,145,411, 8–25–64, Cl. 15—552.
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Fischer, Edward, to Hoover Ball and Bearing Co. Molding machine. 3,124,836, 3–17–64, Cl. 18—5.
Fischer, Edward, and R. R. Rosene, to Hoover Ball and Bearing Co. Adjustable ball cock. 3,120,857, 2–11–64, Cl. 137—592.
Fischer, Edwin L. Lifting and transporting apparatus. 3,137,011, 6–16–64, Cl. 5—86.
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Fischer, Ernst, K. Lohe, and J. Ribka, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Water-insoluble monoazo-dyestuffs and process for preparing them. 3,132,134, 5–5–64, Cl. 260—193.
Fischer, Ernst O., and H. Werner, to Union Carbide Corp. Cyclopentadienyl-nickel-cyclopentenyl compounds and process therefor. 3,121,729, 2–18–64, Cl. 260—439.
Fischer, Ernst O., and H. Werner, to Union Carbide Corp. Organo-metallic compounds and process therefor. 3,159,658, 12–1–64, Cl. 260—429.
Fischer, Eugene M., to General Mills, Inc. Polymeric fat acids. 3,157,681, 11–17–64, Cl. 260—407.
Fischer, Felix, to Olympia Werke AG. Color changing arrangement for a combined calculator and typewriter. 3,139,964, 7–7–64, Cl. 197—157.
Fischer, Franz, to Melchior International Corp. Hydrofoil control system. 3,130,702, 4–28–64, Cl. 114—66.5.
Fischer, Franz, to Melchior International Corp. Pressure measuring instrument for high static pressure atmospheres. 3,158,029, 11–24–64, Cl. 73—407.
Fischer, Fritz, K. Schmitt-Thomas, and V. Seul, to Rasselstein Aktiengesellschaft. Heat treatment for the production of a low carbon steel suitable for deformation without cutting. 3,160,533, 12–8–64, Cl. 148—154.
Fischer, Georg, to Beteiligungs-und Patentverwaltungsgesellschaft mit beschrankter Haftung. Device for protecting drives, especially bucket wheel drives against overloading. 3,159,057, 12–1–64, Cl. 74—785.
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Fischer, Harold, to General Motors Corp. One-way device. 3,118,525, 1–21–64, Cl. 192—45.
Fischer, Harry C., to Thermo-Craft Electric Corp. Durable anode protective system. 3,135,677, 6–2–64, Cl. 204—196.
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Fischer, Herbert C., and Herbert C. Fischer, Jr. Grinding wheels with reinforcing elements. 3,141,271, 7–21–64, Cl. 51—206.
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Fischer, Herbert C. and H. C. Jr. 3,141,271.
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Fischer, Hermann, to Augsburg-Nurnberg, A.G., Maschinenfabrik. Rotary planographic printing press. 3,132,583, 5–12–64, Cl. 101—142.
Fischer, Hermann, to Maschinenfabrik Augsburg-Nurnberg A.G. Means for register printing plates. 3,154,012, 10–27–64, Cl. 101—415.1.
Fischer, John J., to The Patterson-Kelly Co. Materials blending machine. 3,158,358, 11–24–64, Cl. 259—24.
Fischer, John J., and F. M. Pelteson, to North American Aviation, Inc. Means and method for determining the direction of the axis of rotation of a controllably rotating platform. 3,127,774, 4–7–64, Cl. 73—504.
Fischer, John J., and R. V. Knox, to North American Aviation, Inc. Inertial system alinement. 3,147,626, 9–8–64, Cl. 74—5.4.
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Fischer, Laurin G., to International Telephone and Telegraph Corp. Frequency translation and compression system. 3,130,367, 4–21–64, Cl. 325—308.
Fischer, Murry, to Inertia Switch Inc. Statistical shock indicator and register. 3,130,906, 4–28–64, Cl. 235—91.
Fischer, Oscar A. Process for treating uranium-containing oxide ores. 3,152,862, 10–13–64, Cl. 23—14.5.
Fischer, Paul E., W. A. Heatley, Jr., and F. A. Lambert, to Champlain-Zapata Plastics Machinery, Inc. Pre-expander for pellets of plastic material. 3,155,379, 11–3–64, Cl. 263—21.
Fischer, Paul E., F. H. Lambert, and W. P. P. Spika, to Champlain-Zapata Plastics Machinery, Inc. Molding press. 3,158,903, 12–1–64, Cl. 18—17.
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Fischer, Paul W., to Union Oil Co. of California. Inhibited drilling fluid. 3,123,559, 3–3–64, Cl. 252—8.5.
Fischer, Paul W., to Union Oil Co. of California. Compositions for corrosion prevention in oil wells. 3,151,138, 9–29–64, Cl. 260—404.5.
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Fischer, Raymond C., to International Harvester Co. Mower with counter-reciprocating elements. 3,156,083, 11–10–64, Cl. 56—296.
Fischer, Richard A., to The Garrett Corp. Flow balancing device for pressure control systems. 3,145,638, 8–25–64, Cl. 98—1.5.
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Fischer, Walter, J. L. Crützen, and H. Nilles, to Koppers Co., Inc. Apparatus for converting fusible materials solid at ordinary temperatures, into spherical granules. 3,123,855, 3–10–64, Cl. 18—2.7.
Fischer, Wilbur F., to Esso Research and Engineering Co. Nonelastomeric materials containing platy talc and process of producing same. 3,157,614, 11–17–64, Cl. 260—41.
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Fischman, Martin, to General Telephone and Electronics Laboratories, Inc. Transistor pulse oscillator with series resonant circuit. 3,119,972, 1–28–64, Cl. 331—113.
Fischman, Martin, to General Telephone and Electronics Laboratories, Inc. Square wave pulse generator having good frequency stability. 3,155,921, 11–3–64, Cl. 331—117.
Fischman, Martin, and W. Geller, to General Telephone and Electronics Laboratories, Inc. Blocking oscillator with additional regenerative feedback. 3,156,876, 11–10–64, Cl. 331—112.
Fischman, Martin, and W. Geller, to General Telephone and Electronics Laboratories, Inc. Pulse generator employing cross-coupled complementary transistors with parallel LC in one cross coupling. 3,163,780, 12–29–64, Cl. 307—88.5.
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Fisher, Alfred G. Amphibious vehicles. 3,154,045, 10–27–64, Cl. 115—1.
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Fisher, Arthur O., to Monsanto Co. Corrosion inhibition. 3,146,208, 8–25–64, Cl. 252—147.
Fisher, Bernard, and B. Beaman, to United Systems Corp. Electric motor power positioner and servosystem. 3,134,036, 5–19–64, Cl. 310—68.
Fisher, Bryan L., to F. W. A. Scriven. Doffing device for use in spinning, twisting, doubling and like textile machines. 3,117,408, 1–14–64, Cl. 57—52.
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Fisher, Stanton E. Molded rawhide. 3,123,047, 3–3–64, Cl. 119—29.5.

Fisher, Theophil A. Underwater hull protector bag. 3,142,283, 7–28–64, Cl. 114—222.

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Fishman, Jack, to M. J. Lewenstein. Morphinone and codeinone derivatives. 3,153,042, 10–13–64, Cl. 260—285.

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Fisk, Wooster H., L. K. Floan, and G. E. Gage, to Potlatch Forests, Inc. Board handling apparatus. 3,119,419, 1–28–64, Cl. 143—157.

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Fiske, Kenneth V., and E. P. Soder, 50% to Velsicol Chemical Corp., 50% to Burgess Vibrocrafters Inc. Fog generator. 3,161,985, 12–22–64, Cl. 43—129.

Fiske, Paul E., R. V. Keeran, W. R. Dawirs, L. N. Higgins, V. E. Terp, B. H. Humpherys, J. S. Szewzuk, E. W. Fischer, Jr., and J. E. Naylor. Emergency alarm system for IFF systems employing pulse-train decoder. 3,156,895, 11–10–64, Cl. 340—164.

Fisons Fertilizers Ltd.: *See*—
Farquhar, John C. 3,163,248

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Hartley, Gilbert S., and Howes. 3,133,809.

Fister, Aloysius J., to McGraw-Edison Co. Dual element electric fuse. 3,122,619, 2–25–64, Cl. 200—120.

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Fitch, Clifford E. Revolving skipping device. 3,118,666, 1–21–64, Cl. 272—75.

Fitch, Clyde J., to International Business Machines Corp. Apparatus for feeding continuous webs. 3,140,031, 7–7–64, Cl. 226—109.

Fitch, Floyd J., and W. Perjul. Adjustable floor pad holder. 3,135,981, 6–9–64, Cl. 15—230.

Fitch, Frederick T.: *See*—
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Fitch, Frederick T., and J. G. Smith, to W. R. Grace & Co. Method of preparing rare earth-actinide metal oxide sols. 3,148,151, 9–8–64, Cl. 252—301.1.

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Fitch, Howard M., to Engelhard Industries, Inc. Gold secondary mercaptides. 3,163,665, 12–29–64, Cl. 260—430.

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Miller, William R., Jr., Rydberg, Sparklin, Fitch, and Forward. 3,152,394.

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Fite, Luther S. Truck bed attachment. 3,120,395, 2–4–64, Cl. 280—104.5.

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Stelzer, Raymond F., and Fites. 3,147,912.

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FitzGerald, Alan S. Voltage comparator. 3,160,867, 12–8–64, Cl. 340—248.

Fitzgerald, Carl E. Radiant gas burners. 3,136,354, 6–9–64, Cl. 158—99.

Fitzgerald, Charles F., to United Shoe Machinery Corp. Flexible sheet handling mechanisms. 3,163,032, 12–29–64, Cl. 69—10.

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Young, William G., Fitzgerald, and McElhattan. 3,116,914.

Fitzgerald, Frederic C.: *See*—
Bogdan, Charles A., Jr., Fitzgerald, and Jones. 3,159,751.

Fitzgerald, Henry C., to Ames Safety Envelope Co. Duplex mailing envelope. 3,140,817, 7–14–64, Cl. 229—72.

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Fitzmaurice, John A. Character recognition device. 3,118,129, 1–14–64, Cl. 340—146.3.

Fitzmaurice, John A., to Baird-Atomic, Inc. Character recognition devices. 3,124,636, 3–10–64, Cl. 88—1.

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Thornton, William A., Jr., and Fitzmaurice. 3,153,166.

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Fitzpatrick, John B., to Radio Corp. of America. Method of making tungsten coils. 3,120,054, 2–4–64, Cl. 29—547.

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Fitzpatrick, John R., to Charles Wheatley Co. Internal counterbalanced check valve. 3,144,045, 8–11–64, Cl. 137—527.8.

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Fivel, Ernest P., to Resines et Vernis artificiels. Process for continuous mass polymerization of vinyl derivatives. 7–21–64, Cl. 260—85.5.
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Flack, Carl B., and D. O. Halvorson, to E. I. du Pont de Nemours and Co. Chemical process for preparing cyclohexanone oxime. 3,157,702, 11–17–64, Cl. 260—566.
Flad, Hermann, and A. Gasser. Camera with magnets for holding the film magazine. 3,136,207, 6–9–64, Cl. 88—16.
Flaes, Ewoud: *See*—
Melse, Jan L., Baeyens, and Flaes. 3,141,840.
Flagan, Robert G.: *See*—
Tantlinger, Keith W., and Flagan. 3,132,883.
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Flagg, John E., to David Clark Co., Inc. Composite cup for brassieres. 3,146,779, 9–1–64, Cl. 128—463.
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Flagg, Raymond P., to Minneapolis-Honeywell Regulator Co. Timer device for an electrostatic gas purifying system. 3,140,935, 7–14–64, Cl. 55—139.
Flagg, Raymond P., to Honeywell, Inc. Humidity control apparatus employing lever means to actuate a push button switch. 3,163,729, 12–29–64, Cl. 200—61.04.
Flaherty, James H., to General Motors Corp. Encapsulated printed circuit module with heat transfer means. 3,157,828, 11–17–64, Cl. 317—100.
Flaherty, Lawrence F.: *See*—
Lane, John J., and Flaherty. 3,128,261.
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Flamand, Maurice R., to Draper Corp. Filling carriers for shuttleless looms. 3,119,416, 1–28–64, Cl. 139—123.
Flamand, Maurice R., to Draper Corp. Selvage thread tensioning means. 3,147,775, 9–8–64, Cl. 139—54.
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Flanagan, James L., and M. B. Gardner, to Bell Telephone Laboratories, Inc. Elimination of operationally induced noise fluctuations in echo suppressor apparatus. 3,161,838, 12–15–64, Cl. 333—2.
Flanagan, John F., to Velsicol Chemical Corp. Bis(polyhalotetrahydro-4,7-methanoinden-1-yl)-amines. 3,154,579, 10–27–64, Cl. 260—563.
Flanagan, Pat W. K., to Continental Oil Co. Method of producing ketones and alcohols. 3,154,585, 10–27–64, Cl. 260—592.
Flanagan, Robert J., to United States Steel Corp. Combustion by-pass for back-drafting blast furnaces. 3,159,385, 12–1–64, Cl. 263—19.
Flanagan, Thomas M.: *See*—
St. Denny, Ralph B. 3,127,165.
Flanagan, William C., and C. L. Miles, to Eastman Kodak Co. Electroplating light valve. 3,153,113, 10–13–64, Cl. 88—61.
Flanagan, William H., Jr., and A. S. Woodward, to United-Carr Inc. Two-way slide switch. 3,154,659, 10–27–64, Cl. 200—153.
Flanders, Andrew E., and G. A. Mathews, to General Dynamics Corp. Electronic transmission line. 3,150,288, 9–22–64, Cl. 317—101.
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Flank, William H., J. E. McEvoy, and H. Shalit, to Air Products and Chemicals, Inc. Fat hydrogenation. 3,123,627, 3–3–64, Cl. 260—409.
Flannery, Clyde G. Portable cooler. 3,161,031, 12–15–64, Cl. 62—457.
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Flashman, Morris L. Lampshade tree for packaging. 3,124,249, 3–10–64, Cl. 206—65.
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Flatow, Tobias, to Jersey Production Research Co. Method and apparatus for generation of seismic waves. 3,130,809, 4–28–64, Cl. 181—.5.
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Fleck, Delbert C., and M. M. Wong, to United States of America, Interior. Electrolytic method for extracting the chromium values from chromium oxide bearing ores. 3,126,327, 3–24–64, Cl. 204—71.
Fleck, Howard W., to Honeywell Inc. Control apparatus for gas cleaning devices. 3,156,547, 11–10–64, Cl. 55—118.
Fleck, Raymond N., C. G. Wight, and W. L. Wasley, to Union Oil Co. of California. Olefin polymerization process. 3,132,186, 5–5–64, Cl. 260—654.
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Fleck, William, to Short Bros. and Harland Ltd. Control means for guided missiles, aerodynes and the like. 3,162,-399, 12–22–64, Cl. 244—14.
Fleckenstein, Hans, and G. Haag, to Licentia Patent Verwaltungs G.m.b.H. Pressure casting apparatus. 3,127,-644, 4–7–64, Cl. 22—68.
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Fleckenstein, Joseph E., to Johnson Service Co. Remote bulb thermostats. 3,121,532, 2–18–64, Cl. 236—82.
Fleckenstein, Joseph E., to Johnson Service Co. Pneumatic devices having cascaded sets of concentric orifices. 3,161,-025, 12–15–64, Cl. 60—60.
Fleer, Thomas P., to White-Rodgers Co. Control system for clothes dryers. 3,123,448, 3–3–64, Cl. 34—45.
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Fleer, Thomas P., and J. Roos, to White-Rodgers Co. Control system for clothes dryers. 3,132,853, 5–12–64, Cl. 263—33.
Flegel, Curt, and R. Lange, to North American Philips Co., Inc. Voltage compensating circuit for X-ray apparatus. 3,147,382, 9–1–64, Cl. 250—103.
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Fleischer, Walter. Profiling machine. 3,146,812, 9–1–64, Cl. 144—144.
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Fleischmann, Lester K., to Standard Manifold Co. Stationery sheet holder. 3,130,983, 4–28–64, Cl. 282—1.
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Fleisher, Harry, to W. Resinol. Apparatus for forming continuous plastic curls. 3,121,256, 2–18–64, Cl. 18—19.
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Fleissner, Hans and Gerold. 3,140,157.
Fleissner, Gerold, to Fleissner G.m.b.H. Spreading device for tubular materials. 3,119,168, 1–28–64, Cl. 26—55.
Fleissner, Gerold, to Fleissner Gesellschaft mit beschraenkter Haftung. Drum sieve driers. 3,132,931, 5–12–64, Cl. 34—115.
Fleissner, Gerold, to Fleissner & Co. G.m.b.H., Firma. Drying of layers of granular and other comminuted material. 3,151,955, 10–6–64 Cl. 34—164.
Fleissner, Gerold, to Fleissner G.m.b.H. Apparatus for treating bandlike materials. 3,158,306, 11–24–64, Cl. 226—105.
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Fleissner, Heinz, to Fleissner & Co., G.m.b.H. Process for treating and processing of elongated flexible elements. 3,126,556, 3–31–64, Cl. 8—151.2.
Fleissner, Heinz, to Fleissner G.m.b.H. Apparatus for treating textile materials. 3,149,004, 9–15–64, Cl. 118—65.
Fleming, Alexander F. Ash tray with automatic snuffer and ejector. 3,135,268, 6–2–64, Cl. 131—235.
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Fleming, Harold W.. to Catalysts and Chemicals Inc. Selective hydrogenation of acetylene. 3,155,739, 11–3–64, Cl. 260—677.
Fleming, Harold W., and W. R. Gutmann, to Catalysts and Chemicals Inc. Reactivation of catalyst. 3,152,193, 10–6–64, Cl. 260—677.
Fleming, Howard C., to Bell Telephone Laboratories, Inc. Frequency shift keying system. 3,142,723, 7–28–64, Cl. 178—66.
Fleming, Joel F., and D. C. Buck, to United States of America, Air Force. Image orthicon focusing coil and field flaring ring. 3,158,774, 11–24–64, Cl. 313—84.
Fleming, John S. Punch and die for tearing paper. 3,130,-885, 4–28–64, Cl. 225—97.
Fleming, John S., to Floxite Co., Inc. Dental cleaner. 3,141,-466, 7–21–64, Cl. 132—93.
Fleming, John S. Serrated paper dental cleaner. 3,153,418, 10–20–64, Cl. 132—93.
Fleming, Lawrence. Actuation level control circuit for an electro-responsive device. 3,133,229, 5–12–64, Cl. 315—238.
Fleming, Paul N. Portable trouble signal. 3,139,611, 6–30–64, Cl. 340—321.
Fleming, Robert S., and W. H. Cowles, to Holley Carburetor Co. Pilot burner fuel control. 3,116,600, 1–7–64, Cl. 60—35.6.
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Fleming, Robert W., to Parke, Davis & Co. 2-(t-alkylaminoalkyl)-imidazolines and tetrahydropyrimidines. 3,123,606, 3–3–64, Cl. 260—256.4.
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Fleming, William T., to Specialties Development Corp. Mechanical power transmission unit. 3,145,579, 8–25–64, Cl. 74—388.
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Flesor, Chris N., R. C. Hunter, T. S. Imsland, and J. E. McEvoy, to Bailey Meter Co. High pressure pneumatic transmitter. 3,132,661, 5–12–64, Cl. 137—85.
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Fletcher, Archibald W., to National Research Development Corp. Extraction of complex divalent metal cations by naphthenic acid. 3,149,134, 9–15–64, Cl. 260—429.1.
Fletcher, Daniel A. Pneumatic tourniquet. 3,120,846, 2–11–64, Cl. 128—327.
Fletcher, Daniel H., and A. H. Stanley, to Joslyn Mfg. and Supply Co. Cable hanger. 3,154,279, 10–27–64, Cl. 248—74.
Fletcher, Darrell D., to Citizens National Bank of Lubbock. Invalid stretcher. 3,158,875, 12–1–64, Cl. 5—82.
Fletcher, Donald A., to Farmers Co., Inc. Rotary sprinkler and trailer type vehicle therefor. 3,140,827, 7–14–64, Cl. 239—178.
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Fletcher, Harry H., and J. R. Little, to United States Rubber Co. Maleimides and citraconimides as curing agents for vulcanizable rubbers. 3,153,014, 10–13–64, Cl. 260—78.
Fletcher, Kenneth E. Fountain brush. 3,119,142, 1–28–64, Cl. 15—581.
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Sidebottom, William J., and Fletcher. 3,136,701.
Fletcher, Peter S., to A. Lorenz. Extensible head-rest and control for double movements and two position types of chairs. 3,140,117, 7–7–64, Cl. 297—61.
Fletcher, Peter S., to A. Lorenz. Seat control means for chair of the T-cushion type. 3,141,700, 7–21–64, Cl. 297—271.
Fletcher, Peter S., to A. Lorenz. Leg-rest actuating means for multiple position reclining chair. 3,142,510, 7–28–64, Cl. 297—89.
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Fletcher, Peter S., and W. A. McCulty, to A. Lorenz. Secondary leg-rest actuating means. 3,135,548, 6–2–64, Cl. 297—89.
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Fletcher, William G. Baton device and twirl holder therefor. 3,120,147, 2–4–64, Cl. 84—477.
Fletcher, William G. Wrist bowling game. 3,120,390, 2–4–64, Cl. 273—121.
Fletcher, William G. Toy wagon game construction. 3,120,-391, 2–4–64, Cl. 273—123.
Fleury, Alexander C. Amphibious airplane. 3,136,505, 6–9–64, Cl. 244—101.
Fleury, Alexander C. Manually operated landing gear for light amphibious airplanes. 3,156,439, 11–10–64, Cl. 244—102.
Flewelling, Robert W. Calculating device. 3,138,879, 6–30–64, Cl. 35—32.
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Flickinger, Don H., to Pan American Petroleum Corp. Method and apparatus for stimulating and testing earth formations. 3,145,770, 8–25–64, Cl. 166—3.
Flickinger, Don H., G. C. Howard, and F. H. Rixe, to Pan American Petroleum Corp. Propping fractures with glass balls. 3,155,162, 11–3–64, Cl. 166—42.
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Fliegler, Michel J., and H. C. Pasini, to Analogue Controls, Inc. Wiper assembly for a multiturn potentiometer. 3,119,-088, 1–21–64, Cl. 338—143.
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Flora, Laurence H., to Tinnerman Products, Inc. Fastening device. 3,154,826, 11–3–64, Cl. 24—73.
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Flory, Martin D., and D. K. Porter, to The B. F. Goodrich Co. Apparatus for cutting sheet or web material. 3,138,-049, 6–23–64, Cl. 83—461.
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Flower, Archibald T., and J. I. MacPherson. Spreader for bundled electric conductors. 3,161,723, 12–15–64, Cl. 174—146.
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Flowers, Henry F. Fluid motor valve cut-off for tilting dumping machines. 3,120,822, 2–11–64, Cl. 105—273.
Flowers, Henry F. Safety interlock for tilting dump car valve actuators. 3,120,823, 2–11–64, Cl. 105—273.
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Floyd, Edwin, Jr., to AMP Inc. Electrical connector applying tool. 3,152,390, 10–13–64, Cl. 29—203.
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Floyd, Harmanson H., and R. B. Patterson. Industrial apparatus and method. 3,132,672, 5–12–64, Cl. 139—145.

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Flynn, Kenneth G., and D. R. Nenortas, to American Cyanamid Co. Biguanide adducts of phenyl isocyanate. 3,126,404, 3–24–64, Cl. 260—453.
Flynn, Kenneth G., and F. C. Schaefer, to American Cyanamid Co. Adducts of hexamethylbiguanide and method for preparing same. 3,127,436, 3–31–64, Cl. 260—465.5.
Flynn, Robert H., and R. J. Scovill, to United States Steel Corp. Control for supplying air to a blower load. 3,151,199, 9–29–64, Cl. 266—30.
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Foehr, Edward G., to California Research Corp. Transmission fluid. 3,156,653, 11–10–64, Cl. 252—78.
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Fontana, Elmo A. Belt-tensioning device for foldable sewing machines. 3,126,852, 3–31–64, Cl. 112—258.
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Forrest, Gerald V. Packaging containers. 3,132,789, 5–12–64, Cl. 229—14.
Forrest, John W., to Acton Laboratories, Inc. Incremental dial mechanism. 3,142,995, 8–4–64, Cl. 74—10.54.
Forrestal, Lloyd J., and A. F. Lewis, to American Cyanamid Co. Adhesionable vinyl-modified polyolefins and methods for producing same. 3,155,744, 11–3–64, Cl. 260—878.
Forrester, Clive B., to Talon, Inc. Fastening device. 3,118,-203, 1–21–64, Cl. 24—68.
Forrester, Gilbert, C. P. Grant, and R. L. Smith, to S. D. Warren Co. Apparatus for inspecting, cutting, and sorting paper. 3,151,482, 10–6–64, Cl. 73—159.
Forrester, John S., and F. X. Mayer, to Esso Research and Engineering Co. Cell means for soft X-ray source. 3,144,-559, 8–11–64, Cl. 250—106.
Forrester, Leonard R. Coin controlled card display device. 3,117,664, 1–14–64, Cl. 194—61.
Forrester, Leonard R. Coin controlled card display device. 3,145,819, 8–25–64, Cl. 194—1.
Forrester, Robert A., to Ashland Oil & Refining Co. Preparation of carbon black slurries. 3,152,996, 10–13–64, Cl. 252—313.
Forrester, Robert A., and P. P. Ells, to Ashland Oil & Refining Co. Preparation of carbon black dispersions. 3,118,-844, 1–21–64, Cl. 252—313.
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Forsberg, Richard P., to Hexcel Products Inc. Method of expanding metal honeycomb at sub-zero temperatures. 3,149,008, 9–15–64, Cl. 148—125.
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Forshaw, Edward R. A., to Shell Oil Co. Production of amino lower alkyl hydrogen sulfates. 3,153,079, 10–13–64, Cl. 260—458.
Forslund, Carl A. Skidding guard for pneumatic vehicle tires. 3,124,191, 3–10–64, Cl. 152—210.
Forsman, Earl R., and B. M. McNeely, to Keystone Valve Corp. Pressure fluid actuated fractional rotation operator for valves and the like. 3,156,161, 11–10–64, Cl. 92—33.
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Forster, Vincent T., to The English Electric Co., Ltd. High speed axial flow compressors. 3,129,876, 4–21–64, Cl. 230—120.
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Forsyth, Albert J. C., to Courtesy Products Corp. Liquid dispensing machine. 3,149,753, 9–22–64, Cl. 222—63.
Forsyth, Bruce A., to Imperial Chemical Industries of Australia and New Zealand Ltd. Anthelmintic composition containing substituted benzimidazole and phenothiazine and method of using same. 3,162,574, 12–22–64, Cl. 167—53.
Forsyth, Bruce W., and F. Moring, to International Business Machines Corp. Punching device. 3,137,441, 6–16–64, Cl. 234—78.
Forsyth, George H., to Vickers-Armstrongs (Engineers) Ltd. Gas traps. 3,151,913, 10–6–64, Cl. 302—36.
Forsyth, George H., to Vickers-Armstrongs (Engineers) Ltd. Nuclear reactors. 3,152,048, 10–6–64, Cl. 176—20.
Forsyth, George H., A. L. Ashley, and J. C. Braithwaite, to Vickers-Armstrongs (Engineers) Ltd. Apparatus for heating powdered material such as raw cement material. 3,140,-863, 7–14–64, Cl. 263—21.
Forsyth, William S., and K. W. Madsen, to Deere & Co. Method for making cutting components for harvesting machine cutting mechanisms. 3,128,644, 4–14–64, Cl. 76—89.1.
Forsythe, Alan K., to Armstrong Cork Co. Cross-linked, adhesive of a vinyl polymer and a polymethylol bis phenol. 3,159,597, 12–1–64, Cl. 260—847.
Forsythe, Henry E., Jr., to Greencastle Equipment Mfg. Co. Sliding and tiltable load carrying bed for vehicles. 3,159,-294, 12–1–64, Cl. 214—505.
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Fortescue, Peter, L. R. Zumwalt, and D. C. Morse, to United States of America, Atomic Energy Commission. Fuel element. 3,141,829, 7–21–64, Cl. 176—68.
Fortescue, Peter, L. R. Zumwalt, and D. C. Morse, to United States of America, Atomic Energy Commission. Fuel element. 3,146,173, 8–25–64, Cl. 176—71.
Forth, Murray W., R. E. Harrington, and H. A. Myers, to Deere & Co. Material compressing machine. 3,149,585, 9–22–64, Cl. 107—14.
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Fosnes, Kenneth E. Milking machine manifold. 3,125,067, 3–17–64, Cl. 119—14.55.
Fosnes, Kenneth E. Milking machine milker. 3,150,637, 9–29–64, Cl. 119—14.54.
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Foster, Berry W. Vacuum pump. Re. 25,555, 4–14–64, Cl. 230—95.
Foster, Berry W. Supercharged integral compression engine. 3,143,850, 8–11–64, Cl. 60—15.
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Foster, Christopher J. Off shore moorings. 3,120,106, 2–4–64, Cl. 61—46.5.
Foster, Christopher J. Graving docks. 3,124,935, 3–17–64, Cl. 61—64.
Foster, Curtis W., W. Kenyon, and M. A. Pringle, to Lockheed Aircraft Corp. Structural disconnection apparatus. 3,139,660, 7–7–64, Cl. 24—211.
Foster, Dallas J. Engine clamp. 3,124,346, 3–10–64, Cl. 269—70.
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Foster, Ellis L., Jr., and R. R. Walker, to United States of America, Atomic Energy Commission. Tungsten electrodes. 3,138,453, 6–23–64, Cl. 75—65.
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Foster, George B., to Industrial Nucleonics Corp. Selective ray energy utilization in radiation gauging systems having spectral-energy ray sources. 3,154,685, 10–27–64, Cl. 250—83.3.
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Foster, George E. Annunciator systems. 3,124,793, 3–10–64, Cl. 340—213.2.
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Foster, Gerald L., and B. D. Oakes, to The Dow Chemical Co. Corrosion inhibition. 3,140,260, 7–7–64, Cl. 252—151.
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Foster, Hugh M., to National Distillers and Chemical Corp. Cut-off device having a saw portion and a progressive sheer portion. 3,119,296, 1–28–64, Cl. 83—622.

Foster, Jack F., and D. A. Finch, to Deere & Co. Power loader. 3,131,823, 5–5–64, Cl. 214—140.

Foster, James L. Power driven sucker rod wrench. 3,144,794, 8–18–64, Cl. 81—56.

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Foster, James R., to The Coats Co., Inc. Double lower bead breaker shoe for tire changing stands. 3,158,190, 11–24–64, Cl. 157—1.17.

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Foster, John R., to Vonnegut Hardware Co. Means for preventing dogging of panic exit bar in latched position. 3,148,903, 9–15–64, Cl. 292—1.

Foster, John R., to Vonnegut Hardware Co. Latch mechanism. 3,149,864, 9–22–64, Cl. 292—21.

Foster, Julius, A. P. Fraas, and A. M. Perry, to United States of America, Atomic Energy Commission. Fuel locating and suspending system for neutronic reactor core. 3,125,760, 3–17–64, Cl. 176—41.

Foster, Karl, to Westinghouse Electric Corp. Heavy gauge double oriented magnetic sheet material. 3,124,491, 3–10–64, Cl. 148—31.55.

Foster, Karl, to Westinghouse Electric Corp. Process for producing magnetic sheet materials. 3,152,930, 10–13–64, Cl. 148—113.

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Foster, Robert D. Quick closure and connecting arrangement for members. 3,119,512, 1–28–64, Cl. 220—34.

Foster, Robert E., to E. I. du Pont de Nemours and Co. Process for preparing acrylic acid and acrylonitrile from propylene. 3,118,927, 1–21–64, Cl. 260—465.3.

Foster, Robert J., to Goodyear Aerospace Corp. Electronic component packaging. 3,121,188, 2–11–64, Cl. 317—100.

Foster, Robert J., to Goodyear Aerospace Corp. Offset magnetic core. 3,127,591, 3–31–64, Cl. 340—174.

Foster, Robert L., to Sinclair Research, Inc. Cracking catalyst demetallization. 3,122,511, 2–25–64, Cl. 252—413.

Foster, Robert L., and W. B. Watson, to Sinclair Research, Inc. Method of retarding alumina loss in the removal of nickel and vanadium from catalysts. 3,122,512, 2–25–64, Cl. 252—415.

Foster, Robert L., A. D. Anderson, and J. P. Gallagher, to Sinclair Research, Inc. Catalyst demetallization. 3,151,059, 9–29–64, Cl. 208—120.

Foster, Roland S., to The Dow Chemical Co. Stabilization of wood against ultraviolet light. 3,128,199, 4–7–64, Cl. 117—33.3.

Foster, Theodore, and W. T. Hake, to The G. A. Gray Co. Stylus adjusting means. 3,153,359, 10–20–64, Cl. 82—14.82—14.

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Foster, Thomas W., and C. W. Venturoni, to Container Corp. of America. Severance line construction for cartons. 3,148,824, 9–15–64, Cl. 229—51.

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Foulkes, John D., W. D. Lewis, and N. D. Newby, to Bell Telephone Laboratories, Inc. Single sideband space-frequency diversity transmission system. 3,125,724, 3–17–64, Cl. 325—154.

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Foure, Harvey A., to United States of America, Army. Safety and arming system. 3,125,958, 3–24–64, Cl. 102—78.

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Fourier, Walter A., to American Can Co. Method of making freely flowable rubber compositions. 3,145,189, 8–18–64, Cl. 260—45.5.

Fournet, André, and A. Rio, to Societe des Usines Chimiques Rhone-Poulenc. Blend of a copolymer of alpha-methylstyrene and acrylonitrile and a copolymer of butadiene, acrylonitrile, and styrene or alpha-methylstyrene and injection moulded articles thereof. 3,123,584, 3–3–64, Cl. 260—45.5.

Fournet, Andre, M. Ruaud, and Y. Bonnet, to Societe des Usines Chimiques Rhone-Poulenc. Process for the production of polypropylene. 3,161,626, 12–15–64, Cl. 260—93.7.

Fournet, Andre, G. Christen, and R. J. M. Chambard, to Societe des Usines Chimiques Rhone-Poulenc. Process for the production of graft copolymers. 3,157,527, 11–17–64, Cl. 117—47.

Fournier, Roger H., G. C. Joyce, and H. A. Schmucki, to Norton Co. Grinding machine. 3,142,941, 8–4–64, Cl. 51—105.

Fournier, Theodore O. Foot measuring device. 3,126,634, 3–31–64, Cl. 33—3.

Fournier, William, and J. V. Peeples, to General Motors Corp. Closure structure for floatable truck body. 3,128,-120, 4–7–64, Cl. 296—57.

Fournie-Taillant-Vernioulet, Robert, to Commissariat a l'Energie Atomique. Glass electrodes for the measurement of pH. 3,140,247, 7–7–64, Cl. 204—195.

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Roberts, Richard M., Ronay, and Fowkes. 3,142,151.

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Fowler, Alan B., to International Business Machines Corp. Superconductive storage and logic devices with nucleation properties. 3,119,986, 1–28–64, Cl. 340—173.1.

Fowler, Alan B., to International Business Machines Corp. Electro-optical circuit using quenching electroluminescence. 3,138,713, 6–23–64, Cl. 250—205.

Fowler, Albert E., to Abelson & Co. (Engineers) Ltd. Stillages and like transportable load-carrying appliances. 3,152,709, 10–13–64, Cl. 214—515.

Fowler, Aubrey A., Jr., and H. O. McKee. Fluid pressure operated press. 3,135,998, 6–9–64, Cl. 18—19.

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Fowler, Donald L., Jr., to Consolidation Coal Co. Process for carbonizing coal. 3,140,240, 7–7–64, Cl. 202—14.

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Fowler, George W., F. Hostettler, and W. R. Proops, to Union Carbide Corp. Method of stabilizing cellular polyetherurethanes with thiourea and derivatives thereof. 3,124,543, 3–10–64, Cl. 260—2.5.

Fowler, George W., and W. R. Proops, to Union Carbide Corp. Method of stabilizing cellular polyetherurethanes with an amine borane. 3,124,546, 3–10–64, Cl. 260—2.5.

Fowler, George W., S. P. Hersh, and A. T. Walter, to Union Carbide Corp. Vinyl resin solutions stabilized by a polymeric organophosphorus compound. 3,138,570, 6–23–64. Cl. 260—45.7.

Fowler, Gilbert, Sr. Combination sewing machine ribbon cutter and cloth trimming attachment. 3,149,589, 9–22–64, Cl. 112—123.

Fowler, Gilbert, Sr. Sewing machine fabric trimming attachment. 3,149,590, 9–22–64, Cl. 112—127.

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Fowler, Wade F., to Pyramid Mills Co., Inc. Decorative Christmas ornaments. 3,132,988, 5–12–64, Cl. 161—16.

Fowler, Wayne D., to United States of America, Atomic Energy Commission. Fuel assembly for neutronic reactor. 3,158,549, 11–24–64, Cl. 176—78.

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Fox, Daniel W., to General Electric Co. Aromatic carbonate resins and preparation thereof. 3,153,008, 10–13–64, Cl. 260—47.

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Fox, Elton B. Thermostatically operated diversion valve for engine cooling system. 3,136,337, 6–9–64, Cl. 137—625.48.

Fox, Elton B. Fluid pressure starting and shutdown system for engines. 3,143,105, 8–4–64, Cl. 123—179.

Fox, Frank. Method of securing caps or ferrules to bottles and other suitable containers. 3,127,719, 4–7–64, Cl. 53—42.

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Fox, Gaston M., and A. L. Masters, to Barker Automation, Inc. Leg lock shackle. 3,152,360, 10–13–64, Cl. 17—44.1.

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Fox, Robert P., and R. A. Engstrom, to American Hoist & Derrick Co. Stiff leg derrick. 3,148,778, 9–15–64, Cl. 212—70.

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Franck, George E., to Imperial-Eastman Corp. Manually operable tube cutter with movable cutter blade. 3,135,050, 6–2–64, Cl. 30—102.

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Frankel, Milton B., to Aerojet-General Corp. N(silico-alkyl)-polynitro-alkyl amines and their preparation. 3,131,205, 4–28–64, Cl. 260—448.2.

Frankel, Milton B., and K. Klager, to Aerojet-General Corp. Method of preparing polynitro-alkanes. 3,139,461, 6–30–64, Cl. 260—644.

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Franklin, Philip J., and M. Weinberg, to United States of America, Army. Composition for potting components of electric circuits. 3,130,173, 4–21–64, Cl. 260—33.6.

Franklin, Richard E., and H. C. Fox, to Railway Maintenance Corp. Railway tie hauling apparatus. 3,162,145, 12–22–64, Cl. 105—355.

Franklin, Richard L., J. R. Guseman, and E. A. Pelczarski, to United States Steel Corp. Method and composition for making carbonate-bonded agglomerates. 3,125,438, 3–17–64, Cl. 75—3.

Franklin, Robert L., to National Distillers and Chemical Corp. Pneumatic de-blocker. 3,133,479, 5–19–64, Cl. 93—8.

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Franz, Henry H. Receptacle filling device. 3,160,183, 12–8–64, Cl. 141—291.
Franz, Hermann, and M. Kunert, to Edelmanu Gesellschaft m.b.H. Process for washing adducts of urea and straight-chain paraffins in the deparaffining of hydrocarbon oils. 3,117,923, 1–14–64, Cl. 208—25.
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Franz, Tilo, R. Richter, and G. Bach, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process for preparing free flowing finely divided cyanuric chloride. 3,141,-882, 7–21–64, Cl. 260—248.
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Franzen, Erwin F., to A. Finkl & Sons Co. Method and apparatus for continuously tapping and degassing molten metal into ingot molds. 3,145,095, 8–18–64, Cl. 75—49.
Franzen, Gustav, to Klaus Nimtz. Double twisting spindle system. 3,159,962, 12–8–64, Cl. 57—58.49.
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Frazer, August H., to E. I. du Pont de Nemours and Co. Polysulfone of 1,5 cyclooctadiene. 3,133,903, 5–19–64, Cl. 260—79.3.
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Fredrickson, James D., to R. J. Reynolds Tobacco Co. Tobacco and flavoring composition. 3,124,140, 3–10–64, Cl. 131—17.
Fredrickson, Leslie B. Bottle cap opener. 3,122,950, 3–3–64, Cl. 81—3.44.
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Freed, George H. Revolver firing action means. 3,158,949, 12–1–64, Cl. 42—65.
Freed, George H. Firing mechanism for revolvers. 3,158,-950, 12–1–64, Cl. 42—65.
Freed, George H. Gun safety catch actuating means. 3,159,-080, 12–1–64, Cl. 89—148.
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Freedman, Ely, M. J. Bernard, G. Meyer, and R. Mayer, to Temp-Tainer Corp. Machine for forming plastic items. 3,118,176, 1–21–64, Cl. 18—5.
Freedman, Emiel, to Trifari, Krussman and Fishel, Inc. Apparatus for recovering electroplating salts by evaporative concentration. 3,120,462, 2–4–64, Cl. 159—13.
Freedman, Harold H., to The Dow Chemical Co. Preparation of nickel complexes of cyclobutadiene. 3,130,216, 4–21–64, Cl. 260—439.
Freedman, Harold H., to The Dow Chemical Co. Unsymmetrical schiff bases and method of preparation. 3,136,817, 6–9–64, Cl. 260—566.
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Freedman, Henry H., and B. M. Sultzer, to Princeton Laboratories, Inc. Non-specific immunizing agent. 3,119,741, 1–28–64, Cl. 167—78.
Freedman, Larry A., to Radio Corp. of America. Transistor vertical deflection circuits. 3,134,928, 5–26–64, Cl. 315—27.
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Freedman, Lawrence I., J. W. Tone, E. S. Erickson, and G. A. Oberg, to Ronson Corp. Multi-use portable appliance. 3,126,627, 3–31–64, Cl. 30—4.
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Freedman, Melvin B., to Laboratory for Electronics, Inc. Data display apparatus. 3,129,421, 4–14–64, Cl. 340—378.
Freedman, Murray, to Flexees International Inc. Brassiere. 3,136,317, 6–9–64, Cl. 128—478.
Freedman, Paul. Vehicle seat. 3,156,499, 11–10–64, Cl. 297—307.
Freedy, Allan L., and R. G. McIndoo, to Caterpillar Tractor Co. Hydraulic circuit for tractor mounted loaders. 3,122,-246, 2–25–64, Cl. 214—140.
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Freeman, Arthur H., to General Electric Co. Blade connection means for power-operated slicing knife. 3,153,852, 10–27–64, Cl. 30—272.
Freeman, Arthur H., and W. R. Hicks, to General Electric Co. Electric can opener. 3,121,285, 2–18–64, Cl. 30—4.
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Freeman, George S. P., to Bush and Rank Cintel Ltd. Rotary anode cathode ray tube. 3,123,733, 3–3–64, Cl. 313—146.
Freeman, Harold A., to The Goodyear Tire & Rubber Co. Method of vulcanizing retreaded tires. 3,127,460, 3–31–64, Cl. 264—315.
Freeman, Holland H., to Consolidated Electrodynamics Corp. Indicia projection system. 3,146,664, 9–1–64, Cl. 88–24.
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Freeman, Leon D.: *See*—
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Freeman, Leslie G., to Birfield Engineering Ltd. Lubrication arrangement for telescoping shafts. 3,123,990, 3–10–64, Cl. 64—23.
Freeman, Louis O. Mounting means for a horizontal disc cultivator. 3,129,773, 4–21–64, Cl. 172—522.
Freeman Mfg. Co.: *See*—
Geimer, Cornelius J. 3,116,735.
Freeman, Mark P., to American Cyanamid Co. Electrical properties of ablating solid materials of low resistivity in a plasma jet. 3,127,502, 3–31–64, Cl. 219—121.
Freeman, Marshall E., to International Business Machines Corp. Hydraulic positioning system. 3,130,549, 4–28–64, Cl. 60—54.5.
Freedman, Nathan, to Raytheon Co. Oscillator frequency selecting circuits. 3,118,116, 1–14–64, Cl. 331—161.
Freeman, Norman D., F. T. Stanchus, and R. T. Telford, to Union Carbide Corp. Gas shielded electric arc welding. 3,139,508, 6–30–64, Cl. 219—74.
Freeman, Norman H.: *See*—
Czulak, Joseph, and Freeman. 3,133,492.

Freeman, Philip. Applicator cap. 3,133,300, 5–19–64, Cl. 15—236.
Freeman, Richard B. Drill pipe handling apparatus. 3,159,-286, 12–1–64, Cl. 214—2.5.
Freeman, Richard N. Propeller balancing device. 3,148,545, 9–15–64, Cl. 73—456.
Freeman, Robert B., to Center for the Gifted Child Inc. Record jacket. 3,127,089, 3–31–64, Cl. 229—68.
Freeman, Robert C.: *See*—
Speziale, Angelo J., and Freeman. 3,145,230.
Speziale, Angelo J., and Freeman. 3,153,670.
Freeman, Robert L.: *See*—
Currey, Charles H., Brown, Holbrook, Truesdale, and Freeman. 3,143,705.
Currey, Charles H., Freeman, Holbrook, and Truesdale. 3,148,245.
Freeman, Robert W., and G. F. Hageman, to Daystrom Inc. Instrument with improved calibration adjustment. 3,122,-018, 2–25–64, Cl. 73—363.7.
Freeman Shoe Corp.: *See*—
Bowman, Harry O. 3,132,361.
Freeman, Simon P. Method of and apparatus for making frozen confections. 3,138,119, 6–23–64, Cl. 107—1.
Freeman, Stephen T., and H. Leifman. Dental instrument for electrochemical therapy. 3,118,450, 1–21–64, Cl. 128—-409.
Freeman Supply Co., The: *See*—
Rusk, Gerald R., and Hagquist. 3,144,736.
Freeman, Sydney W.: *See*—
Hughson, J. Donald, Freeman, and Smith. 3,158,409.
Freeman, Wilbern M. Automatic transmission power relieving safety device. 3,131,782, 5–5–64, Cl. 180—82.
Freeman, William R., Jr., and J. G. Lucas, to Avco Corp. Aluminum oxidation resistant coatings for nickel and cobalt base alloy parts. 3,155,536, 11–3–64, Cl. 117—102.
Freeport Sulphur Co.: *See*—
Axelrad, Bernard, Matson, and Touro. 3,140,915.
Cockrell, Clifford M. 3,129,684.
Reinberg, Gustave. 3,142,478.
Freericks, Lambert, H. L. Kukasch, and T. B. Luzon, to American Telephone and Telegraph Co. Telephone message unit recording system. 3,156,772, 11–10–64, Cl. 179—7.
Freericks, Lambert, H. L. Kukasch, and T. B. Luzon, to American Telephone and Telegraph Co. Telephone message unit recording system. 3,156,773, 11–10–64, Cl. 179—7.
Freestone, Harry T.: *See*—
Havn, Svend E., and Freestone. 3,155,872.
Freeway Washer & Stamping Co.: *See*—
Leciejewski, Anthony G. 3,139,666.
Freezer, J., & Son, Inc.: *See*—
Bindler, Ben. 3,137,860.
Freez-King Corp.: *See*—
Conto, Armando F. 3,154,092.
Fregeolle, Oscar, to Draper Corp. Method of knitting hosiery. 3,142,974, 8–4–64, Cl. 66—48.
Fregeolle, Oscar, to Draper Corp. Knitting machine and method. 3,142,975, 8–4–64, Cl. 66—48.
Frei, Joseph, 51% to R. B. Howell, 34% to J. Frei, and 15% to J. A. Kleinhuizen. Collet closure. 3,148,889, 9–15–64, Cl. 279—4.
Freiberg, Ashley H.: *See*—
Lukes, George E., and Freiberg. 3,132,070.
Freiberg, Robert A., to United States of America, Navy. Motor servo driver. 3,137,809, 6–16–64, Cl. 318—300.
Freiberg, Robert A., to United States of America, Navy. Servo valve driver. 3,140,427, 7–7–64, Cl. 317—148.5.
Freidenrich, Robert G., and A. H. Werner, to Western Electric Co., Inc. Apparatus for orienting terminals. 3,147,843, 9–8–64, Cl. 198—33.
Freidman, Louis M.: *See*—
Szekely, Steven. 3,133,212.
Freier, Joachim: *See*—
Ossenbrunner, Armin, Schnell, Klockgether, Geiger, and Freier. 3,148,986.
Freifelder, Morris, to Abbott Laboratories. Process of preparing cycloheptylamine by catalytic hydrogenation. 3,139,454, 6–30–64, Cl. 260—563.
Freifelder, Morris, to Abbott Laboratories. Catalytic hydrogenation of pyridylcarboxylic acids and pyridylalkylcarboxylic acids. 3,159,639, 12–1–64, Cl. 260—293.2.
Freightliner Corp.: *See*—
Chew, Norman B. 3,157,240.
Freiman, David J., to Corning Glass Works. Handle attaching means. 3,148,406, 9–15–64, Cl. 16—121.
Freins et Signaux Westinghouse, Compagnie des: *See*—
Debray, Jean-Claude. 3,144,198.
Ortet, Pierre, and Marcillaud. 3,146,648.
Freismuth, John S., to American Radiator & Standard Sanitary Corp. Fluid line thermostat. 3,129,885, 4–21–64, Cl. 236—34.5.
Freismuth, John S., and S. J. Jancovic, to Sterling Automotive Mfg. Co. Power element. 3,153,933, 10–27–64, Cl. 73—368.3.
Freitag, Auguste M. A., deceased, by A. M. C. Lemahieu, executrix. Clothings for flats of carding machines. 3,151,362, 10–6–64, Cl. 19—114.
Freitag, Edmund: *See*—
Krüssman, Adolf, and Freitag. 3,134,261.
Frelich, Paul D.: *See*—
Lustig, Howard E., Rossoff, Frelich, and Farr. 3,144,-631.
Freller, Helmut: *See*—
Gunther, Karl-Georg, Freller, and Titze. 3,143,647.
Fremion, Edwin A., to West Virginia Pulp and Paper Co. Protective package with cushion devices for packaging fragile sheet-like articles. 3,133,687, 5–19–64, Cl. 229—14.
Fremont, Leo. Bag. 3,142,324, 7–28–64, Cl. 150—1.7.
Fremon, George H., to Union Carbide Corp. Assembly for incremental rotation of a linear motion valve piston. 3,159,173, 12–1–64, Cl. 137—331.
Fremstad, Viles K., and H. B. Gorton, to Ajax Hardware Manufacturing Corp. Mounting bracket for elongated track. 3,149,811, 9–22–64, Cl. 248—251.
Fremuth, Winfried J.: *See*—
D'Errico, Michael J., and Fremuth. 3,161,679.
French, Allen D., to General Electric Co. Fire control system harmonization. 3,136,992, 6–9–64, Cl. 343—7.
French, Charlie N., and R. H. Rosback, to The Bendix Corp. Plastic guide for diaphragm. 3,143,927, 8–11–64, Cl. 91—376.
French, Damas J. Foldable harrow frame with harrow section elevating means. 3,122,210, 2–25–64, Cl. 172—456.
French, Ernest F.: *See*—
Rankin, Alexander B. C., Buffery, and Taylor. 3,121,-325.
French, Gerald H. Switching means for a load circuit with an auxiliary time delay cutout circuit. 3,138,737, 6–23–64, Cl. 315—50.
French, Gerald H., J. E. Rawlings, and A. G. Eschrich, said Eschrich assor. of ⅙ to said French, and ⅙ to said Rawlings. Fish or minnow trap. 3,145,500, 8–25–64, Cl. 43—103.
French, Henry C., and N. F. Wender, to Dempster Brothers, Inc. Container handling apparatus. 3,122,250, 2–25–64, Cl. 214—302.
French, Henry C., and N. F. Wender, to Dempster Brothers, Inc. Front end loaders. 3,130,845, 4–28–64, Cl. 214—302.
French, Henry C., and N. F. Wender, to Dempster Bros., Inc. Containers for vehicles. 3,145,009, 8–18–64, Cl. 248—150.
French, Heyward A.: *See*—
Ferrar, Robert C., and French. 3,118,113.
French, James W.: *See*—
Anthony, Charles E., and French. 3,153,162.
French, John F., to FMC Corp. Apparatus for controlling the movement of containers. 3,144,122, 8–11–64, Cl. 198—34.
French, John L.: *See*—
Van Auwelaer, Anderson, and French. 3,120,897.
French, John L., to Deere & Co. Vibrating bucket. 3,145,488, 8–25–64, Cl. 37—141.
French, John L., A. J. Van Auwelaer, and D. C. Ager, to Deere & Co. Earth working implement. 3,155,250, 11–3–64, Cl. 214—138.
French Oil Mill Machinery Co., The: *See*—
Stacy, Thomas F. 3,147,466.
Tribbett, Murray C. 3,142,093.
Upton, Charles B. 3,126,820.
French, Park, to Thompson Ramo Wooldridge Inc. Ion beam generating system. 3,155,857, 11–3–64, Cl. 313—63.
French, Richard V., R. A. Jordan, and E. J. Wilkinson, to Sylvania Electric Products Inc. Adjustable microwave phase shifter using stripline having variable dielectric. 3,139,597, 6–30–64, Cl. 333—31.
French, Richard W., to Tinius Olsen Testing Machine Co. Balancing equipment. 3,120,129, 2–4–64, Cl. 73—468.
French, Walter K., to International Business Machines Corp. Associative memory. 3,123,706, 3–3–64, Cl. 235—61.11.
French, Walter K., to International Business Machines Corp. Associative memory. 3,131,291, 4–28–64, Cl. 235—61.11.
French, William G. Adjustable partition for files. 3,126,892, 3–31–64, Cl. 129—31.
French, William G. Adjustable shelf partition. 3,127,022, 3–31–64, Cl. 211—184.
Frenette, Andre: *See*—
Sharp, George H., Frenette, and Taggart. 3,127,514.
Frendberg, Arthur M.: *See*—
Baver, Clyde B., and Frendberg. 3,117,538.
Frendberg, Arthur M., and T. B. Hurst, to The Babcock & Wilcox Co. Vapor generator. 3,136,298, 6–9–64, Cl. 122—336.
Frenk, Helmuth, H. Lüssem, and R. Mees, to Ernst Leitz Gesellschaft mit beschrankter Haftung. Motion picture projector operable on different A.C. sources. 3,140,637, 7–14–64, Cl. 88—17.
Frenkel, Lothar, to General Dynamics Corp. Cathode ray tube apparatus. 3,126,494, 3–24–64, Cl. 313—86.
Frenkel, Marvin A., and C. H. Haney, to Advance Glove Mfg. Co. Method of making three-dimensional hand coverings. 3,124,807, 3–17–64, Cl. 2—169.
Frenkel, Marvin A., and C. H. Haney, to Advance Glove Mfg. Co. Hand coverings. 3,132,348, 5–12–64, Cl. 2—167.
Frenkel, Marvin A., and C. H. Haney, to Advance Glove Mfg. Co. Apparatus for tear sealing thermoplastic sheets to cloth. 3,147,170, 9–1–64, Cl. 156—380.
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Scherer, Otto, Frensch, and Stähler. 3,157,571.
Scherer, Otto, Reichner, and Frensch. 3,130,037.
Frensch, Heinz, W. Staudermann, and W. Finkenbrink, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Brüning. 5-bromethyl-hexachloro-bicyclo-[2,2,1]-heptene-(2) insecticide. 3,136,688, 6–9–64, Cl. 167—30.
Frentzel, Herman C.: *See*—
Morrison, George F., and Frentzel. 3,152,608.
Frentzel, Herman C. Differential. 3,145,583, 8–25–64, Cl. 74—711.

Frentzel, Herman C., to Hansen Glove Corp. Transmitter clutch disc alignment adjusting mechanisms. 3,156,336, 11–10–64, Cl. 192—110.
Frenzel, Manfred, to Goetzewerke Friedrich Goetze Aktiengesellschaft. Radial seal for rotary piston motors. 3,152,-552, 10–13–64, Cl. 103—130.
Frerotti, Edmondo, and G. Landucci, to Montecatini, Societa Generale per l'Industria Mineraria e Chimica. Method and apparatus for baking anodes with preheating of cathodic sole for electrolytic furnaces. 3,119,755, 1–28–64, Cl. 204—67.
Frerotti, Edmondo, and G. Landucci., to Montecatini, Societa Generale per l'Industria Mineraria e Chimica. Method for apparatus for baking soederberganodes for electrolysis cell. 3,126,326, 3–24–64, Cl. 204—67.
Fresard, Marcel, and F. Bucher, to Mefina S.A. Washing machine. 3,117,436, 1–14–64, Cl. 68—183.
Frésard, Marcel A., to Aesup Etablissement. Electrically-operated toothbrush. 3,119,135, 1–28–64, Cl. 15—22.
Frésard, Marcel A., to Aesup, Etablissement. Electrically-operated hand appliances. 3,135,881, 6–2–64, Cl. 310—36.
Fresard, Marcel, and E. Aebersold, to Mefina S.A. Vacuum cleaners. 3,142,857, 8–4–64, Cl. 15—327.
Frese, Albert, to Chemische Werke Huls Aktiengesellschaft. Process of working up low-pressure polyolefine dispersions. 3,149,096, 9–15–64, Cl. 260—93.7.
Freseman, William L., and F. H. Stephens, Jr., to United States of America, Navy. Iso-echo contour device with circuitry to effect threshold clipping and pulse shaping. 3,117,283, 1–7–64, Cl. 328—54.
Freshour, Oren A., to Continental Can Co., Inc. Liquid filled pouch with straw. 3,144,976, 8–18–64, Cl. 229—7.
Freshway Products Co.: *See*—
Ostrus, Aubrey O. T. 3,120,442.
Ostrus, Aubrey O. T. 3,145,744.
Fresk, Ernst G. W., O. E. R. Nordström and P. O. R. Persson, to Telefonaktiebolaget LM Ericsson. Telephone instrument. 3,126,454, 3–24–64, Cl. 179—100.
Freswater, John R.: *See*—
Watts, John R., Wagman and Fresman. 3,125,279.
Freter, Kurt: *See*—
Zeile, Karl, Merz, and Freter. 3,135,760.
Freter, Kurt, F. Adickes, and K. Zeile, to Boehringer Ingelheim G.m.b.H. Method of producing analgesia with N-substituted-4-phenyl-4-carbalkoxy-piperidines. 3,131,122, 4–28–64, Cl. 167—55.
Freter, Kurt, H. Merz, and K. Zeile, to Boehringer Ingelheim G.m.b.H. Quaternary 4-phenyl-4-arbalkoxypiperidinium derivatives. 3,133,074, 5–12–64, Cl. 260—294.3.
Fretz, Mark E.: *See*—
Millman, Nathan, and Fretz. 3,130,063.
Freud, Herbert M. (surnamed J. Frasch), to Society Framalite. Process for pickling and passivating enclosed structures. 3,132,975, 5–12–64, Cl. 148—6.14.
Freudenberg, Carl: *See*—
Fuchs, Hermann. 3,144,760.
Freudenschuss, Otto, to K. Vockenhuber and C. Hauser. Control arrangement for the diaphragm of a photographic or cinematographic taking objective. 3,124,033, 3–10–64, Cl. 88—16.
Freudman, Ernest, to General American Transportation Corp. Freight containers. 3,133,658, 5–19–64, Cl. 220—1.5.
Freuler, Fred H., to Clupak, Inc. Modified web material and the manufacture thereof. 3,122,469, 2–25–64, Cl. 162—206.
Freundlich, Albert, and C. Willie, to Freundlich-Gomez Machinery Corp. Devices for feeding helical coiled wire through a row of spaced openings in a looseleaf book. 3,134,406, 5–26–64, Cl. 140—92.3.
Freundlich-Gomez Machinery Corp.: *See*—
Freundlich, Albert, and Willie. 3,134,406.
Whitcomb, John O. 3,133,562.
Freure, Benjamin T., and H. J. Decker, to Union Carbide Corp. Preparation of nitriles. 3,133,114, 5–12–64, Cl. 260—465.4.
Frevel, Ludo K., to The Dow Chemical Co. Supporting structure for reactor vessels. 3,129,836, 4–21–64, Cl. 220—1.
Frevel, Ludo K., to The Dow Chemical Co. Launching system for rocket driven devices. 3,132,562, 5–12–64, Cl. 89—1.7.
Frevik, Ralph C., and B. Brilts, to Ford Motor Co. Flail type cutter. 3,122,871, 3–3–64, Cl. 56—294.
Frew, Duncan W., Jr., to Shell Oil Co. Octane requirement increase reducing fuel and lubricant compositions. 3,146,-203, 8–25–64, Cl. 252—49.9.
Frey, Albert H.: *See*—
Kimmell, Irvine, and Frey. 3,125,194.
Frey, Albert W. Ballistic projectile. 3,154,016, 10–27–64, Cl. 102—92.5.
Frey, Christoph, to Ciba Ltd. New dyestuffs of the naphthofurandione series. 3,147,283, 9–1–64, Cl. 260—346.2.
Frey, Clifton G.: *See*—
Brennan, Harry M., Frey, and Seelig. 3,143,490.
Frey, Edward J. Microscope and dark field illuminator for viewing Brownian movements. 3,160,698, 12–8–64, Cl. 88—39.
Frey, Edward R.: *See*—
Carlson, Harold A., Frey, and Hertling. 3,160,684.
Carlson, Harold A., Johnson, and Frey. 3,160,682.
Frey, Elmer E., to Robert C. Hatcher. Tiltable umbrella. 3,150,671, 9–29–64, Cl. 135—20.
Frey, Francis W.: *See*—
Stern, Lewis J., and Frey. 3,162,744.
Frey, Frederick E., to Phillips Petroleum Co. Carbon black process and apparatus. 3,151,942, 10–6–64, Cl. 23—209.4.
Frey, Friedrich: *See*—
Englhart, Leopold, Sommer, Schon, Lohs, Frey, and Holler. 3,117,180.
Frey, Harold E. Timer switch having movable piston and mercury contacts. 3,155,785, 11–3–64, Cl. 200—33.
Frey, Karl, O. Ernst, and W. Fisch, to Ciba Ltd. Polyepoxide compositions and process of hardening them. 3,118,858, 1–21–64, Cl. 260—47.
Frey, Louis E. Spring construction. 3,160,894, 12–15–64, Cl. 5—243.
Frey, Peter J., to Ryan Aeronautical Co. Turbulence grid at the inlet of a wing submerged fan. 3,139,245, 6–30–64, Cl. 244—12.
Frey, Peter J., and F. G. Wagner, to The Ryan Aeronautical Co. Jet curtain V/STOL system. 3,149,805, 9–22–64, Cl. 244—42.
Frey, Wesley L.: *See*—
Singleton, James F. 3,147,008.
Freydberg, Eli, and A. Heym, to Conso Products, Inc. Traverse mechanism for draperies and curtains. 3,157,-225, 11–17–64, Cl. 160—345.
Freye, Robert J., to Walbro Corp. Electric pump motor. 3,130,333, 4–21–64, Cl. 310—18.
Freyermuth, Harlan B.: *See*—
Graham, David E., Freyermuth, and Normington. 3,149,161.
Hort, Eugene V., Freyermuth, and Graham. 3,132,180.
Marschall, Franz, Freyermuth, and Williams. 3,157,644.
Freyermuth, Harlan B., to General Aniline & Film Corp. Whitened and stabilized polyurethane foams. 3,148,163, 9–8–64, Cl. 260—2.5.
Freyermuth, Harlan B., and H. R. Mautner, to General Aniline & Film Corp. Process for the coloration of cellulose textile fibers. 3,142,529, 7–28–64, Cl. 8—18.
Freyermuth, Harlan B., J. B. Normington, and E. V. Hort, to General Aniline & Film Corp. Catalytic hydrogenation of halonitrobenzene compounds. 3,148,217, 9–8–64, Cl. 260—580.
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Albsmeier, Hans, and Freystedt. 3,146,415.
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Malz, Hugo, Bayer, Freytag, and Kühle. 3,135,735.
Freytag, Helmut, E. Klauke, H, Wilms, E. Roos, and J. George, to Farbenfabriken Bayer Aktiengesellschaft. Method for the manufacture of N-phenyl-N-(4-nitrosophenyl)-hydroxylamine. 3,142,705, 7–28–64, Cl. 260—576.
Freytag, Karl-Heinz: *See*—
Taube, Carl, Messmer, and Freytag. 3,135,733.
Freytag, Richard W., and J. W. Gratian, to General Dynamics Corp. Hall device construction. 3,134,083, 5–19–64, Cl. 338—32.
Friberg, Jean: *See*—
Dreyfus, Gaspard P., Ertaud, Friberg, Galley, Julia, and Panossian. 3,150,822.
Ertaud, André, Friberg, and Maginot. 3,143,382.
Ertaud, André, Friberg, and Maginot. 3,152,845.
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Kleinschmidt, Edward F., Anderson, Frick, Clark, and Chinlund. 3,150,235.
Frick, Fritz A., and J. H. Streets, to Ampex Corp. Pinch roller actuating mechanism. 3,148,819, 9–15–64, Cl. 226—176.
Frick, Harold L., to Whirlpool Corp. Rotary cooking top for a home appliance. 3,153,407, 10–20–64, Cl. 126—37.
Frick, John G., Jr.: *See*—
Vail, Sidney L., Frick, and Reid. 3,143,548.
Frick, John G., Jr., R. L. Arceneaux, and J. D. Reid, to United States of America, Agriculture. Wrinkle resistance finish for cellulosic textiles. 3,144,299, 8–11–64, Cl. 8—116.3.
Frick, Wilhelm E., and W. Stammbach, to J. R. Geigy, A.-G. New aminobenzoic acid derivatives and compositions containing same. 3,162,684, 12–22–64, Cl. 260—556.
Fricke, Robert A.: *See*—
Behrens, William H., Hudis, Neal, Arnosti, and Fricke. 3,156,170.
Fried, Josef, and D. W. Rosenthal, to Olin Mathieson Chemical Corp. Triterpenoid acid derivatives. 3,153,038, 10–13–64, Cl. 260—239.57.
Friedemann, Oscar R.: *See*—
Polya, Emery, Zawoy, Friedemann, and Lemack. 3,152,-913.
Friend Mfg. Corp.: *See*—
Culp, Herbert P. 3,151,812.
Fries, Edward W., to DCA Food Industries Inc. Method and apparatus for forming fried ring-shaped comestibles. 3,152,560, 10–13–64, Cl. 107—14.
Friday, Paul D. Lay-up drum machine. 3,147,166, 9–1–64, Cl. 156—264.
Friden, Inc.: *See*—
Chall, Harold J. 3,145,923.
Ellerbeck, Grant C. 3,159,341.
Lehtonen, Edwin W. 3,156,269.
Lundquist, Ingemar H. 3,156,179.
Malavazos, Arthur J., and Urdal. 3,128,945.
Schaerer, Willy, and Lundquist. 3,133,700.

Fridland, James A.: *See*—
Murray, Robert W. 3,140,569.
Fridley, Ernest S.: *See*—
Harrison, Charles J., and Fridley. 3,145,044.
Fridlund, Olof. Operating device for Venetian blinds. 3,123,130, 3–3–64, Cl. 160—168.
Fridolph, Annette E. Adjustable book shelves and book ends. 3,142,384, 7–28–64, Cl. 211—43.
Fridolph, Doris I. Movable partition structure. 3,135,026, 6–2–64, Cl. 20—4.
Fridolph, Maude C. Brassiere. 3,157,182, 11–17–64, Cl. 128—429.
Fried, George, to American Machine & Foundry Co. Bowling pinspotting machine sweep mechanism with drive means comprising distortable parallelograms. 3,156,466, 11–10–64, Cl. 273—54.
Fried, John, T. B. Windholz, and R. F. Hirschmann, to Merck & Co. 2-alkoxymethylene steroids of the androstane and pregnane series. 3,129,218, 4–14–64, Cl. 260—239.5.
Fried, John, and A. N. Nutile, to Merck & Co., Inc. 4-methyl-6-exomethylene steroids and processes. 3,129,221, 4–14–64, Cl. 260—239.55.
Fried, Josef: *See*—
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Rosenthal, David W., and Fried. 3,133,057.
Thomas, Gordon H., and Fried. 3,143,559.
Thomas, Gordon H., and Fried. 3,151,135.
Fried, Josef, to Olin Mathieson Chemical Corp. Acetals and ketols of 16,17-dihydroxy steroids of the pregnene series. 3,134,770, 5–26–64, Cl. 260—239.55.
Fried, Josef, to Olin Mathieson Chemical Corp. Oxygenated triterpenoid acid derivatives. 3,140,301, 7–7–64, Cl. 260—397.3.
Fried, Josef, to Olin Mathieson Chemical Corp. 9 α-hydroxy-pregnanes and process for production thereof. 3,141,877, 7–21–64, Cl. 260—239.55.
Fried, Josef, and G. W. Krakower, to Olin Mathieson Chemical Corp. Phenyl derivatives of methylsterols and process for production thereof. 3,127,423, 3–31–64, Cl. 260—397.2.
Fried, Josef, and R. W. Thoma, to Olin Mathieson Chemical Corp. Process for the production of 11 β-hydroxytestololactone. 3,129,143, 4–14–64, Cl. 195—51.
Fried, Josef, H. L. Yale, and F. H. Bergeim, to Olin Mathieson Chemical Corp. Cyclic boron compounds. 3,135,789, 6–2–64, Cl. 260—551.
Fried, Josef, and E. E. Galantay, to Olin Mathieson Chemical Corp. Crotonolactones. 3,145,218, 8–18–64, Cl. 260—343.6.
Fried, Louis. Window top containers. 3,122,990, 3–3–64, Cl. 99—369.
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Fried, Louis, A. R. D'Andrea, and J. K. Browning, 82.443% to A. R. D'Andrea and 17.557% to H. M. Beitel. Container structure and opening means therefor. 3,142,411, 7–28–64, Cl. 220—48.
Fried, Walter R., to General Precison, Inc. F.M. range finder with Doppler error compensation. 3,130,404, 4–21–64, Cl. 343—14.
Friedell, Morley V., to Clark-Feather Mfg. Co. Press button valve. 3,148,700, 9–15–64, Cl. 137—454.5.
Friedell, Morley V., to Clark-Feather Mfg. Co. Shot splitting and applying tool for fishermen. 3,162,869, 12–29–64, Cl. 7—5.4.
Friedell, Morley V., 33⅓% to L. B. Hamm, 30% to B. E. Hamm, 30% to W. B. Burch, 6⅔% to D. D. and K. M. Hendrickson, and K. C. and H. N. Moskau. Bottle or container seal and closure. 3,163,308, 12–29–64, Cl. 215—46.
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Friedlander, Erich S., and K. C. Parton, to The General Electric Co. Ltd. Electric supply arrangements. 3,162,800, 12–22–64, Cl. 323—60.
Friedlander, Herbert N., to Standard Oil Co. Catalytic conversion and catalysts. 3,157,627, 11–17–64, Cl. 260—94.9.
Friedlander, William, to Mono-Cam Ltd. Fuel injection pumps. 3,127,841, 4–7–64, Cl. 103—41.
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Friedman, Bernard S., to Sinclair Research, Inc. Method of producing a high octane gasoline by reforming a naphtha in two-stages. 3,124,524, 3–10–64, Cl. 208—65.
Friedman, Bernard S., and S. M. Cotton, to Sinclair Research, Inc. Ester production from isoparaffin and carbon monoxide. 3,127,438, 3–31–64, Cl. 260—468.
Friedman, Donald E., and L. K. Quick; said Friedman assor. to Hussmann Refrigerator Co. Hot gas defrosting system. 3,138,007, 6–23–64, Cl. 62—278.
Friedman, Emerson J., to U.S. Industries, Inc. Stocking display bar. 3,125,385, 3–17–64, Cl. 312—107.
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Friedman, George J., to I. Friedman. Chain door lock. 3,125,875, 3–24–64, Cl. 70—93.
Friedman, Harry M., to Delta Metal Products Co. Fuse holding structure. 3,142,738, 7–28–64, Cl. 200—133.
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Friedman, Lester, to Union Carbide Corp. Alkaneetherpolyol phosphonate esters. 3,139,450, 6–30–64, Cl. 260—461.
Friedman, Lester, to Union Carbide Corp. Dialkyl pentaerythritol diphosphonates and phosphite phosphonates. 3,141,-032, 7–14–64, Cl. 260—461.
Friedman, Lester, to Union Carbide Corp. Polyurethane from tris-polypropylene glycol phosphites. 3,142,650, 7–28–64, Cl. 260—2.5.
Friedman, Lester, to Union Carbide Corp. Polyurethanes from polyphosphorus phosphites and phosphonates. 3,142,651, 7–28–64, Cl. 260—2.5.
Friedman, Lester, to Union Carbide Corp. Urethane polymers from polyhalomethanephosphonates and organic polyisocyanates. 3,159,605, 12–1–64, Cl. 260—77.5.
Friedman, Louis M. Electrical indicating device including a cylindrical housing with inwardly curved end walls serving as bearing supports. 3,150,318, 9–22–64, Cl. 324—156.
Friedman, Mitchell. Electrical connectors. 3,132,912, 5–12–64, Cl. 339—64.
Friedman, Robert G., to The National Machinery Co. Machine for making bolts. 3,116,499, 1–7–64, Cl. 10—11.
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Friend, Leo, to Pullman Inc. Urea production. 3,130,225, 4–21–64, Cl. 260—555.
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Fries, Friedrich A., and K.-A. Müller, to Esso Research and Engineering Co. Process for the production of vinyl caprolactams. 3,150,126, 9–22–64, Cl. 260—239.3.
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Frischen, Franz. Method of and apparatus for the direct recording of light radiation. 3,129,051, 4–14–64, Cl. 346—1.
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Frostick, Harold G., and G. N. Krueger, to United States Steel Corp. Pantograph carriage. 3,146,866, 9–1–64, Cl. 191—65.
Frotscher, Herbert, to Bohme Fettchemie G.m.b.H. Process for making fibrous material hydrophobic. 3,163,552, 12–29–64, Cl. 106—287.
Frotscher, Herbert, to Bohme Fettchemie G.m.b.H. Process for the prevention of electrostatic charges. 3,163,556, 12–29–64, Cl. 117—138.8.
Fruchard, Alain, and A. J. Richard, to Eastman Kodak Co. Colloid transfer process and activator solution therefor. 3,148,060, 9–8–64, Cl. 96—28.
Frudenfeld, Karl, M.D.: *See*—
Clarkson, Alick. 3,147,939.
Frueh, John J. Track and wheel truck for rolling door. 3,157,908, 11–24–64, Cl. 16—95.
Fruehauf Corp.: *See*—
Chieger, George. 3,156,503.
Chieger, George, and Borneman. 3,160,433.
Chieger, George, and Schubach. 3,148,724.
Chieger, George, and Wheeler. 3,116,950.
Fujioka, Richard T., Chieger, and Schubach. 3,147,869.
Heimann, Fred G. 3,134,618.
Tantlinger, Keith W. 3,148,909.
Tantlinger, Keith W., and Flagan. 3,132,883.
Tantlinger, Keith W., and Flagan. 3,144,141.
Tantlinger, Keith W., Flagan, and Fujioka. 3,151,904.
Tantlinger, Keith W., and Fujioka. 3,161,316.
Fruehauf Trailer Co.: *See*—
Felts, Wallace M. 3,142,397.
Fruhstorfer, Wolfgang, and H. Muller-Calgan, to E. Marck Aktiengesellschaft. Imidazoline derivatives. 3,147,275, 9–1–64, Cl. 260—309.6.
Fruhstorfer, Wolfgang, and H. Muller-Calgan, to E. Merck Aktiengesellschaft. 2-[(2′-methyl-benzo-thienyl-3′)-methyl]-Δ^2-imidazoline and its pharmaceutically acceptable acid addition salts. 3,161,653, 12–15–64, Cl. 260—309.6.
Frume, Edward F. Dispenser for semi-inert fluid material. 3,162,328, 12–22–64, Cl. 222—176.
Frush, Donald I., to International Business Machines Corp. Data transfer control and check apparatus. 3,160,857, 12–8–64, Cl. 340—172.5.
Fruth, Hal F. Air cleaner. 3,137,550, 6–16–64, Cl. 55—131.
Frutschi, Hansulrich: *See*—
Spillmann, Werner, and Frutschi. 3,163,004.
Fry, Douglas J., and B. A. Lea, to Ilford Ltd. Direct positive photographic materials. 3,124,458, 3–10–64, Cl. 96—101.
Fry, Eugene M., to Engelhard Industries, Inc. Cathodic protection system. 3,129,154, 4–14–64, Cl. 204—147.
Fry, Francis J.: *See*—
Fry, William J. and F. J., and Eggleton. 3,152,340.
Fry, Frank J.: *See*—
Fry, William J. and F. J. 3,117,571.
Fry, Joseph D., and E. F. Ware. Tool bar for farm implements. 3,135,339, 6–2–64, Cl. 172—413.
Fry, Lyle L. Plant thinner. 3,146,832, 9–1–64, Cl. 172—59.
Fry, Millard E.: *See*—
Pearce, George C., Evans, and Fry. 3,157,175.
Pearce, George C., Evans, and Fry. 3,157,176.
Fry, Warren C., to Westinghouse Electric Corp. Power supply for an electro-mechanical vibrating transducer. 3,129,366, 4–14–64, Cl. 318—114.
Fry, William J., to Altair Corp. Tissue interface detector for ventriculography and other applications. 3,147,750, 9–8–64, Cl. 128—2.1.
Fry, William J. and F. J., to University of Illinois Foundation. Production of reversible changes in living tissue by ultrasound. 3,117,571, 1–14–64, Cl. 128—24.
Fry, William J. and F. J., and R. C. Eggleton, to Interscience Research Institute. Artificial heart. 3,152,340, 10–30–64, Cl. 3—1.
Fry, William L., and A. F. Uhlig, to Owens-Illinois Glass Co. Inspecting containers for offset seams. 3,160,760, 12–8–64, Cl. 250—224.
Fryar, Jack R.: *See*—
Connors, James S., and Fryar. 3,162,515.
Frydman, Benjamin J., to Olin Mathieson Chemical Corp. Synthesis of ruscopine. 3,130,231, 4–21–64, Cl. 260—564.
Frydman, Benjamin J., and E. Hug, to Olin Mathieson Chemical Corp. Ruscopine and ruscopeine. 3,130,230, 4–21–64, Cl. 260—564.
Frydryk, John T., to Johnson & Johnson. Automatic web cutting machine with clamp for holding cut web portions. 3,149,517, 9–22–64, Cl. 83—155.
Frydryk, John T., to Johnson & Johnson. Apparatus for making box-type product. 3,160,080, 12–8–64, Cl. 93—44.

Frye, Alfred H.: *See*—
Goepfert, George J., Frye, Soukup, and Buescher. 3,140,-321.

Frye, James A.: *See*—
McGuire, Jack C., and Frye. 3,133,722.

Frye, James A., to Halliburton Co. Swing-type check valve. 3,144,876, 8–18–64, Cl. 137—454.5.

Frye, Robert S., and G. T. Gunnell, Jr., to The Coca-Cola Co. Vent valve assembly. 3,152,604, 10–13–64, Cl. 137—202.

Fryer, Alma M.: *See*—
Fryer, Kenneth F. 3,157,041.

Fryer, Edward R., to General Motors Corp. Dozer blade including overload relief means. 3,151,406, 10–6–64, Cl. 37—144.

Fryer, Glenn E., to Great Lakes Carbon Corp. Method and apparatus for calibration of well logging apparatus. 3,122,636, 2–25–64, Cl. 250—83.

Fryer, Kenneth F., to The American Hardware Corp. Cylinder lock mounting construction. 3,125,877, 3–24–64, Cl. 70—224.

Fryer, Kenneth F., to The American Hardware Corp. Privacy lock set. 3,128,112, 4–7–64, Cl. 292—169.

Fryer, Kenneth F., deceased (A. M. Fryer, executrix), to Emhart Corp. Lock construction for lock sets. 3,157,041, 11–17–64, Cl. 70—216.

Fryer, Raymond G.: *See*—
De Lisle, William E., and Fryer. 3,123,803.

Frykhult, Rune H., to Sunds Verkstader Aktiebolag. Filters for dewatering suspensions. 3,125,514, 3–17–64, Cl. 210—396.

Fryklund, Robert A., to Raytheon Co. Radio navigation aid. 3,132,341, 5–5–64, Cl. 343—112.

Fryling, Charles F., to Koppers Co., Inc. High impact polystyrene. 3,144,420, 8–11–64, Cl. 260—4.

Frysinger, Edward B., to Hughes Aircraft Co. Pulse generator for developing pulses of predetermined width and short fall time. 3,161,830, 12–15–64, Cl. 328—34.

Fubee, Avery D., and F. Bernstein, to General Electric Co. Method for compensating an X-ray analyzing system. 3,150,261, 9–22–64, Cl. 250—51.5.

Fuchs, Carl J., Jr.: *See*—
Singer, Ben L., and Fuchs. 3,117,651.

Fuchs, Friedrich, to M. Fuchs. Tops with musical mechanism. 3,153,968, 10–27–64, Cl. 84—83.

Fuchs, Günter. Automatic safety device for furnaces. 3,124,-194, 3–10–64, Cl. 158—42.4.

Fuchs, Hans-Gerhard, to Franz Kuhlmann K.G. Copying mechanisms. 3,137,944, 6–23–64, Cl. 33—25.

Fuchs, Hermann, to Carl Freudenberg. Surface of suede leather. 3,144,760, 8–18–64, Cl. 69—21.

Fuchs, Julius J., to E. I. du Pont de Nemours and Co. Process for the production of adipic acid. 3,125,600, 3–17–64, Cl. 260—537.

Fuchs, Louis, to Airborne Accessories Corp. Bi-directional, no-back transmissions. 3,119,480, 1–28–64, Cl. 192—44.

Fuchs, Louis, to Airborne Accessories Corp. Torque-reacting devices. 3,119,481, 1–28–64, Cl. 192—45.1.

Fuchs, Martin: *See*—
Fuchs, Friedrich. 3,153,968.

Fuchs, Martin, to Vox Kaffee-Werk Groneweg & Meintrup. Container. 3,117,709, 1–14–64, Cl. 229—14.

Fuchs, Otto: *See*—
Dexheimer, Hans, Fuchs, Lederer, and Schmieder. 3,156,-678.

Fuchs, Otto, Kommandit-Gesellschaft: *See*—
Mai, Gerhard. 3,155,237.

Fuchs, Robert J., to FMC Corp. Sodium phosphate glasses. 3,127,238, 3–31–64, Cl. 23—106.

Fuchs, Robert J., to FMC Corp. Sodium phosphate glasses. 3,130,002, 4–21–64, Cl. 21—2.7.

Fuchs, Robert J., to FMC Corp. Method of softening hard water with sodium phosphate glasses. 3,130,152, 4–21–64, Cl. 210—57.

Fuchs, Robert J., and C. B. Miles, to FMC Corp. Method of stabilizing dichlorocyanuric acid salts. 3,145,206, 8–18–64, Cl. 260—248.

Fuehrer, George H., to Thor Power Tool Co. Sealing ring with assembly means. 3,118,681, 1–21–64, Cl. 277—9.

Fuehrer, George H., and W. G. Korff, to Thor Power Tool Co. Multiple stage feed leg assembly. 3,119,455, 1–28–64, Cl. 173—36.

Fuehring, Heinrich, to Max Boehler & Ferdinand Weber, trading as the firm Boehler & Weber Kommanditgesellschaft. Process and apparatus for recovering residual solvent from sludge. 3,143,497, 8–4–64, Cl. 210—67.

Fuel Controls Corp.: *See*—
Schneider, Edgar R. 3,120,242.

Fuentevilla, Manuel E.: *See*—
Hamilton, William H., and Fuentevilla. 3,145,562.

Fuentevilla, Manuel E., to Pennsalt Chemicals Corp. Freeze drying apparatus. 3,146,077, 8–25–64, Cl. 34—76.

Fuerhoff, Ralph C., to Westinghouse Electric Corp. Apparatus for cutting off lengths of tubing. 3,144,186, 8–11–64, Cl. 225—93.5.

Fuerst, Ernst, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Selective separation of aromatics from paraffins. 3,157,592, 11–17–64, Cl. 208—324.

Fugassi, Lucien A., Jr., to National Steel Corporation. Detecting welds. Re. 25,541, 3–24–64, Cl. 209—72.

Fugate, Wesley O., and M. J. D'Errico, to American Cyanamid Co. Process for the preparation of N-alkylacrylamides. 3,151,157, 9–29–64, Cl. 260—561.

Fugh, Ralph D.: *See*—
Menichelli, Vincent J., Fugh, Kilmer, and Baldwin. 3,135,204.

Fugelstad, John O., to Aktiebolaget Platforadling. Arrangement in safe walls or the like. 3,123,025, 3–3–64, Cl. 109—83.

Fugit, Guy S., to Potter Instrument Co., Inc. Door latch. 3,141,693, 7–21–64, Cl. 292—173.

Fuhrman, Richard E.: *See*—
Durst, Paul T., and Fuhrman. 3,154,051.
Gross, Kenneth E., and Fuhrman. 3,131,545.

Fuhrmann, Ernst, to Goetzewerke Friedrich Goetze Aktiengesellschaft. Sealing rotary piston engine. 3,118,595, 1–21–64, Cl. 230—145.

Fuhrmeister, William F., R. P. Gentile, and G. W. Riedel, to Douglas Aircraft Co., Inc. Analog division control system. 3,141,638, 7–21–64, Cl. 244—77.

Fuhrwerk, Victor C., W. G. Rose, and J. R. Beebe, to Avco Corp. Extruder with compacting force control mechanism. 3,121,387, 2–18–64, Cl. 100—43.

Fuhs, Royal J. Brake system. 3,118,304, 1–21–64, Cl. 73—308.

Fuita, Shogo: *See*—
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Fuji Boiler Co., Ltd.: *See*—
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Miura, Yoshio, Nishio, and Kumai. 3,137,577.
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Fuji Seiki Machine Works, Ltd.: *See*—
Kondo, Yoshitaka. 3,143,833.

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Yanagibayashi, Keizo, and Iida. 3,131,658.

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Yamada, Hiroshi. 3,162,769.

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Fujii, Kiyoshi: *See*—
Imoto, Saburo, Fujii, Ukida, and Matsumoto. 3,134,758.

Fujii, Kuniyoshi: *See*—
Suzuki, Shinichi, Fujii, Nishizawa, and Kadota. 3,135,-780.

Fujii, Noriyoshi. Wheels for centrifugal fans of the forward curved multiblades type. 3,140,042, 7–7–64, Cl. 230—134.

Fujii, Tadakuni, to Nippon Electric Co. Ltd. Plural resonator cavities tuned to integrally related frequencies. 3,155,868, 11–3–64, Cl. 315—5.43.

Fujii, Yukio: *See*—
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Fujimoto, Katsuro: *See*—
Takamatsu, Hideji, Umemoto, Fujimoto, and Nakamura. 3,161,652.

Fujimoto, Kobun, I. Miwa, and S. Morita, to Toyo Koatsu Industries, Inc. Method for purifying exit oxygen from the ozonolysis of fatty acids. 3,151,943, 10–6–64, Cl. 23—221.

Fujimura, Hajime: *See*—
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Takahashi, Torizo, Fujimura, and Hamashima. 3,163,-650.

Fujino, Masahiko: *See*—
Shibata, Motoo, Nakazawa, Inoue, Hitomi, Mizuno, Fujino, Miyake, and Araki. 3,160561.

Fujino, Yoshio. Adjustable folded dipole. 3,163,863, 12–29–64, Cl. 343—752.

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Fujioka, Richard T., G. Chieger, and T. C. Schubach, to Fruehauf Corp. Container frame. 3,147,869, 9–8–64, Cl. 214—85.

Fujisaki, Yoshisato, C. Nakayama, and H. Kobayashi, to Asahi Kasei Kogyo Kabushiki Kaisha. Method for preparing acrylonitrile synthetic fiber. 3,147,322, 9–1–64, Cl. 264—182.

Fujisawa, Hideya, to Nippon Denso Kabushiki Kaisha. Fuel injection pump for internal combustion engines. 3,135,209, 6–2–64, Cl. 103—41.

Fujisawa Pharmaceutical Co., Ltd.: *See*—
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Fujita, Masaru: *See*—
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Fujita, Shigeo: *See*—
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Fujita, Toshio, to Sanwa Mishin Seizo Kabushiki Kaisha (Sanwa Sewing Machine Mfg. Co., Ltd.). Buttonhole sewing mechanism in zigzag sewing machines. 3,137,256, 6–16–64, Cl. 112—158.

Fuka, Vaclav. Fuel injection system. 3,124,111, 3–10–64, Cl. 123—32.

Fukagawa, Rokuro: *See*—
Tsujihata, Keiji, Harada, Shimizu, Fukagawa, and Tanigawa. 3,146,088.

Fukuda, Hiroichi: *See*—
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Fukui, Hansaburo: *See*—
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Fukuoka, Isamu. Venetian blind. 3,158,196, 11–24–64, Cl. 160—173.
Fukushima, Osamu: *See*—
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Matsubayashi, Kanji, and Fukushima. 3,137,675.
Matsubayashi, Kanji, and Fukushima. 3,155,632.
Matsubayashi, Kanji, and Fukushima. 3,161,699.
Fukushima, Osamu, and H. Kurashige, ¼ to Air Reduction Co. Inc. and ¾ to Kurashiki Rayon Co., Ltd. Method of making polyvinyl alcohol fibers. 3,142,532, 7–28–64, Cl. 8—115.5.
Fulbright, Harry W., to General Dynamics Corp. Electromagnetically driven shutter and valve. 3,158,350, 11–24–64, Cl. 251—137.
Fuld, George J.: *See*—
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Fulford, Bruce B., to The Glacier Metal Co. Ltd. Method of producing a composite material for plain bearings. 3,132,418, 5–12–64, Cl. 29—471.1.
Fulford, Oliver G. Sprocket wheels. 3,118,316, 1–21–64, Cl. 74—243.
Fulghum Enterprises: *See*—
Ledergerber, Karl, and Eugster. 3,144,713.
Fulk, James B. Method and apparatus for printing and/or processing webs of material. 3,147,006, 9–1–64, Cl. 270—18.
Fulker, Joseph A. Boat engine cooling system. 3,137,281, 6–16–64, Cl. 123—41.02.
Fuller Brush Co., The: *See*—
Amos, Howard V., and Pierz. 3,129,944.
Fuller, Clifford J. Theft prevention for automobiles and the like. 3,160,761, 12–8–64, Cl. 307—10.
Fuller Brush Co., The: *See*—
Delfs, Hans-Jurgen C. H. 3,118,748.
Fowler, Leslie L. 3,121,683.
Kalinske, Anton A., and Weston. 3,154,601.
Kiesbar, Charles W., and Weller. 3,129,980.
Lincoln, Roland L. 3,158,455.
Mertz, Fred A. 3,133,706.
Putnam, Charles P., Jr. 3,146,961.
Richter, Philip. 3,145,039.
Thelen, Francis H. 3,149,378.
Zimmerman, Curtis A. 3,133,707.
Fuller, Evander K., to Western Electric Co., Inc. Plastic relay structure and method of making. 3,128,355, 4–7–64, Cl. 200—87.
Fuller, Forney, Jr. Temperature equalizing means for a plurality of conduits. 3,117,620, 1–14–64, Cl. 165—40.
Fuller, Frank J. Projectile. 3,132,587, 5–12–64, Cl. 102—38.
Fuller, George W., and V. D. Bell, to King-Seeley Thermos Co. Closure for a vessel. 3,144,153, 8–11–64, Cl. 215—13.
Fuller, Harold L. Motor boat hull. 3,126,856, 3–31–64, Cl. 114—66.5.
Fuller, Harrison W., to Laboratory for Electronics, Inc. High capacity data processing techniques. 3,140,471, 7–7–64, Cl. 340—174.
Fuller, Harrison W., and M. E. Hale, to Laboratory for Electronics, Inc. Random storage. 3,131,078, 4–28–64, Cl. 117—8.
Fuller, Hubert D., to The General Electric Co. Ltd. Quarter-wave reflecting plate with support core of resin-impregnated paper honeycomb. 3,137,000, 6–9–64, Cl. 343—756.
Fuller, James L., and C. W. Tomlinson, to Acme Visible Records, Inc. Adjustable desk device. 3,124,084, 3–10–64, Cl. 108—64.
Fuller, James L., and S. A. Loyd, to Acme Visible Records, Inc. Rotary record equipment. 3,124,398, 3–10–64, Cl. 312—198.
Fuller, Norman E.: *See*—
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Fuller, Richard B. Suspension building. 3,139,957, 7–7–64, Cl. 189—1.
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Tragert, William E., Fullman, and Carter. 3,138,490.
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Fulmer, Richard W., and E. R. Rogier, to General Mills, Inc. Aminohydroxy quaternary ammonium compounds. 3,150,131, 9–22–64, Cl. 260—247.7.
Fulmer, Richard W., and E. R. Rogier, to General Mills, Inc. Cyanoethylated aminohydroxy amines. 3,158,643, 11–24–64, Cl. 260—465.
Fulop, Charles. Impact drill. 3,133,601, 5–19–64, Cl. 173—97.
Fulop, Charles. Impact drill. 3,133,602, 5–19–64, Cl. 173—109.
Fulop, Charles. Impact drill. 3,163,237, 12–29–64, Cl. 173—109.
Fulton, Allen L.: *See*—
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Fulton Co., The: *See*—
Bolmes, Henry G., Fulton, and Weber. 3,153,545.
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Fulton, Howard A., to Mansfield Sanitary, Inc. Close-coupled tank to water closet. 3,142,845, 8–4–64, Cl. 4—12.
Fulton, Howard A., L. I. Kerr, and C. D. Obrecht, to Mansfield Sanitary, Inc. Temperature control relief valve. 3,154,248, 10–27–64, Cl. 236—21.
Fulton, J. W., Jr.: *See*—
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Fulton, James F., to Peter's Bag Corp. Luggage construction. 3,141,536, 7–21–64, Cl. 190—41.
Fulton, James F., to W. W. Randall. Encouragement savings bank. 3,143,285, 8–4–64, Cl. 232—5.
Fulton, Nathaniel D., to Thiokol Chemical Corp. Pilot escape device for aircraft. 3,116,900, 1–7–64, Cl. 244—122.
Fulton, Samuel K. Mooring whip. 3,120,831, 2–11–64, Cl. 114—230.
Fultz, Harry E. School bus stop signal. 3,133,265, 5–12–64, Cl. 340—83.
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Funck, Herbert. One-piece molded sole for welt shoes. 3,129,520, 4–21–64, Cl. 36—28.
Fundamental Research Co.: *See*—
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Fundingsland, John O. Hi-fidelity speaker. 3,146,848, 9–1–64, Cl. 181—31.
Fungaroli, Anthony F. Mop wringing mechanism. 3,150,400, 9–29–64, Cl. 15—260.
Funk, Charles F., and J. E., J. L. York, and E. Funk, deceased (by M. B., C. F., J. E., G. L., and M. M. Funk, heirs). Method of repairing defective pump casings. 3,136,013, 6–9–64, Cl. 22—203.
Funk, Charles F., and J. E., J. L. York, and E. Funk, deceased (by M. B., C. F., J. E., G. L., and M. M. Funk, heirs). Method for repair of defective pump casings. 3,136,044, 6–9–64, Cl. 29—401.
Funk, Charles R., to Lukens Steel Co. Steel casting process and apparatus. 3,141,767, 7–21–64, Cl. 75—129.
Funk, Charles R., and D. K. Matthews, to Lukens Steel Co. Exothermic inserts for hot tops. 3,159,887, 12–8–64, Cl. 22—147.
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Funk, Charles F. and J. E., York, and E. Funk. 3,136,044.
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Funk, Guy L.: *See*—
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Funk, Charles F. and J. E., York, and E. Funk. 3,136,044.
Funk, Richard S. Device to utilize heat from boiler flue to heat additional spaces in home. 3,124,197, 3–10–64, Cl. 165—122.
Funk, Rudolph. Apparatus for cross folding flexible sheets. 3,117,777, 1–14–64, Cl. 270—81.
Funk, William: *See*—
Kemp, John H., Jr., and Funk. 3,118,400.
Kemp, John H., Jr., and Funk. 3,149,586.
Funke, Birger, and R. Samuelsson, to Allmanna Svenska Elektriska Aktiebolaget. Gas-filled-liquid cathode elongated rectifier having condenser chamber and automatic tank cooling means therefor. 3,157,820, 11–17–64, Cl. 315—113.
Funke, Frances M.: *See*—
Funke, Lawrence J., and Blackburn. 3,121,385.
Funke, Lawrence J., deceased (F. M. Funke, executrix), and F. Blackburn; said Blackburn assor. to said Funke. Sandwich grills. 3,121,385, 2–18–64, Cl. 99—374.
Funke, John L., and R. E. Boulis, to West Virginia Pulp and Paper Co. Display stand. 3,141,555, 7–21–64, Cl. 211—135.
Fuqua, Lloyd T., to General Motors Corp. Mirror support for a remotely controlled rear view mirror mechanism. 3,149,812, 9–22–64, Cl. 248—288.
Fur Industrielle Elektronik Agie Losone Bei Locarno, A.G.: *See*—
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Furbacher, John H., to Ford Motor Co. Automatic choke. 3,158,322, 11–24–64, Cl. 236—48.

Furber, William A. Lifting device. 3,141,695, 7–21–64, Cl. 294—16.
Furby, Neal W., M. A. Pino, and R. L. Peeler, to California Research Corp. Organosilicon fluid composition. 3,146,206, 8–25–64, Cl. 252—78.
Furey, Michael J., and J. A. Wilson, to Esso Research and Engineering Co. Apparatus for measuring friction and contact between sliding lubricated surfaces. 3,129,580, 4–21–64, Cl. 73—10.
Furkert, Herbert, to Chemiefau Dr. A. Zieren G.m.b.H., Fa. Recovery of products from waste gas. 3,119,663, 1–28–64, Cl. 23—175.
Furlong, Owen D. A. C.: *See*—
Molloy, Louis B., and Furlong. 3,152,534.
Furman, Frank J., and H. A. Panissidi, to International Business Machines. Hydraulic control apparatus. Re. 25,700, 12–15–64, Cl. 60—54.5.
Furman, Herbert, to General Motors Corp. Wheel cover. 3,146,032, 8–25–64, Cl. 301—37.
Furman, Murray. Combination of strongbox and anchoring means. 3,146,739, 9–1–64, Cl. 109—52.
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Furnier- und Sperrholzwerk J. F. Werz, Jr. K.G. Werzalit-Pressholzwerk, Oberstenfeld: *See*—
Munk, Edmund E. 3,146,285.
Furniss, William E., to Westinghouse Electric Corp. Remote metering system. 3,121,859, 2–18–64, Cl. 340—150.
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Furst, Andor, and A. Boller, to Hoffmann-La Roche Inc. 2-pyridyl-alkylamines and their lower alkanoyl amides. 3,133,077, 5–12–64, Cl. 260—295.
Fürst, Andor, W. Meier, K. Meyer, C. Gavilanes, and R. Rees, to Hoffmann-La Roche Inc. Uzarigenin glycosides. 3,148,182, 9–8–64, Cl. 260—210.5.
Furst, Mark. Clamping device. 3,157,397, 11–17–64, Cl. 269—86.
Fürst, Stefan, to W. Reiners. Automatic yarn-coil winding machine. 3,121,540, 2–18–64, Cl. 242—35.5.
Fürst, Stefan, to W. Reiners. Method and means for preparing spinning cops for rewinding. 3,136,494, 6–9–64, Cl. 242—35.6
Fürst, Stefan, to W. Reiners. Yarn-guiding device for coil-winding machines. 3,136,495, 6–9–64, Cl. 242—43.2.
Fürst, Stefan, to W. Reiners. Yarn spinning and winding apparatus. 3,154,904, 11–3–64, Cl. 57—1.
Furst, Stefan, to Walter Reiners. Automatic yarn-coil winding machine. 3,160,358, 12–8–64, Cl. 242—35.5.
Furst, Stefan, to Walter Reiners. Yarn-spool winding machine. 3,160,359, 12–8–64, Cl. 242—35.5.
Fürst, Stefan, and W. Maassen, to W. Reiners. Spool-holding device for textile machines, particularly winding machines. 3,131,885, 5–5–64, Cl. 242—129.
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Furuya, Syoichi. Water-tight portable electric lamp for under-water use. 3,162,376, 12–22–64, Cl. 240—10.66.
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Cosgrove, Frederick S. 3,139,499.
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Fux, Aime, to Burroughs Corp. Pneumatic sheet stacking mechanism. 3,120,384, 2–4–64, Cl. 271—68.
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Haessler, Walter M., and Blair. 3,128,791.
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Gabler, Rudolf, to W. R. Grace & Co. Polyamides from a mixture of isophthalic acid, terephthalic acid and branched chain aliphatic diamine. 3,145,193, 8–18–64, Cl. 260—78.
Gabler, Rudolf, to W. R. Grace & Co. Amorphous polyamides based on terephthalic acid and alkyl substituted hexamethylene diamines. 3,150,113, 9–22–64, Cl. 260—33.4.
Gabler, Rudolf, to W. R. Grace & Co. Amorphous polyamides based on aromatic dicarboxylic acids with alkyl substituted hexamethylenediamine. 3,150,117, 9–22–64, Cl. 260—78.
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Gabriel, Melvin D. Reversible lightwire toy. 3,146,547, 9–1–64, Cl. 46—244.
Gabriel, Vincent T., and E. W. Manteuffel, to General Electric Co. Temperature-compensated saturable reactors. 3,122,700, 2–25–64, Cl. 323—89.
Gach, Peter P., to U. O. Colson Co. Blotter holder. 3,161,177, 12–15–64, Cl. 120—24.
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Gaddini, Norman E. Apricot feeding, orienting, halving and pitting machine. 3,138,184, 6–23–64, Cl. 146—28.
Gade, John C., and A. K. Graham, to Rockwell-Standard Corp. Electrolytic treatment of articles. 3,135,671, 6–2–64, Cl. 204—34.
Gadekar, Shreekrishna M., J. R. Vaughan, Jr., and B. Selby, to American Cyanamid Co. 2-acylated 2,3-dihydro-1H-pyrrolo[3,4-C]pyridines. 3,123,612, 3–3–64, Cl. 260—295.
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Stall, Cash G., and Beth A. 3,142,270.
Gaede, Virgil E., to Phillips Petroleum Co. Packed column with side stream withdrawal. 3,163,685, 12–29–64, Cl. 261—97.
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Schisla, Robert M., and Gaertner. 3,148,203.
Gaertner, Van R., and R. M. Schisla, to Monsanto Co. 2-benzyl-4-chlorophenyl hydrocarbyl carbonates. 3,134,802, 5–26–64, Cl. 260—463.
Gaertner, Wolfgang W., and W. G. Matthei, to United States of America, Army. Parametric amplifier using photo-cell reactance. 3,132,258, 5–5–64, Cl. 307—88.
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Bottero, Jacques, and Gaestel. 3,126,292.
Gaeta, Lawrence E., to Hyland Laboratories. Tissue culture medium. 3,122,476, 2–25–64, Cl. 167—74.
Gaetani, Ermanno, to Aziende Colori Nazionali Affini ACNA S.p.A. Disazo dyes. 3,125,565, 3–17–64, Cl. 260—191.
Gaetani, Ermanno, U. Moiso, and S. Papa, to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Process for dyeing polyolefins. 3,158,435, 11–24–64, Cl. 8—41.
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Gaeumann, Ernst, V. Prelog, and E. Vischer, to Ciba Corp. Antibiotics lankavamycin and lankavacidin and process of production. 3,118,812, 1–21–64, Cl. 167—65.
Gaeumann, Ernst, V. Prelog, E. Vischer, and H. Bickel, to Ciba Corp. Method for producing ferrioxamine E. 3,118,823, 1–21–64, Cl. 195—80.
Gaeumann, Ernst, V. Prelog, and E. Vischer, to Ciba Corp. Antibiotic and process for its manufacture. 3,131,126, 4–28–64, Cl. 167—65.
Gaeumann, Ernst, and V. Prelog, to Ciba Corp. Antibiotic angolamycin and method of production. 3,131,127, 4–28–64, Cl. 167—65.
Gaeumann, Ernst, and H. Bickel, to Ciba Corp. Grisonomycin and process for its manufacture. 3,147,184, 9–1–64, Cl. 167—65.
Gaeumann, Ernst, V. Prelog, H. Bickel, and E. Vischer, to Ciba Corp. Process for producing ferrioxamines. 3,153,-621, 10–20–64, Cl. 195—80.
Gaeumann, Ernst, E. Vischer, and H. Bickel, to Ciba Corp. Antibiotic A22765 and process of production. 3,155,578, 11–3–64, Cl. 167—65.
Gaeumann, Ernst, V. Prelog, H. Bickel, and E. Vischer, to Ciba Corp. Process for the manufacture of desferrioxamines. 3,158,552, 11–24–64, Cl. 195—80.
Gaffney, John E., Jr., to International Business Machines Corp. Information storage system. 3,140,473, 7–7–64, Cl. 340—174.
Gage, Charles W. Paper dispenser. 3,154,232, 10–27–64, Cl. 225—77.
Gage, Edwin G. Change box control. 3,148,709, 9–15–64, Cl. 139—171.
Gage, George L. Pencil cleaner. 3,150,398, 9–29–64, Cl. 15—210.
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Fisk, Wooster H., Floan, and Gage. 3,119,419.
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Gagg, James, to Molins Machine Co. Ltd. Mechanism for joining webs of material. 3,123,268, 3–3–64, Cl. 226—111.
Gage, Lonnie L. Zone selector tubing joint. 3,148,732, 9–15–64, Cl. 166—226.
Gage, Robert M., to Union Carbide Corporation. Method and apparatus for heating metal melting furnaces. 3,147,329, 9–1–64, Cl. 13—9.
Gage, Robert M., to Union Carbide Corp. Method for furnacing conductive materials. 3,147,330, 9–1–64, Cl. 13—9.
Gage, Robert M., G. M. Skinner, W. F. Cuddihy, and D. W. Sundstrom, to Union Carbide Corp. Arc torch apparatus for use in metal melting furnace. 3,130,292, 4–21–64, Cl. 219—75.
Gage, Seymour, and O. M. Martinson. Means and method for constructing buildings. 3,148,434, 9–15–64, Cl. 25—131.5.
Gage, William P., and F. Jaffe, to W. R. Grace & Co. Production of formaldehyde polymers. 3,140,271, 7–7–64, Cl. 260—67.
Gageant, Louis M., to Campbell Soup Co. Automatic pie machine. 3,136,268, 6–9–64, Cl. 107—1.
Gageur, Fritz, to Lindauer Dornier Gessellschaft m.b.H. Tenter chain mechanism. 3,142,108, 7–28–64, Cl. 26—61.
Gagliano, Louis J., and C. C. Wanser, to Hercules Powder Co. Copper phthalocyanine pigments of improved dispersibility and strength. 3,156,575, 11–10–64, Cl. 106—288.
Gagliardi, Domenick D. Method of ornamenting preformed polyolefin substrates with coating containing water insoluble pigments and resultant article. 3,140,194, 7–7–64, Cl. 117—15.
Gagliardi, Domenick D. Treatment of polyolefin articles and resulting products. 3,145,073, 8–18–64, Cl. 8—100.
Gagliardi, Domenick D. Treatment and coloring of preformed polyolefin materials. 3,148,017, 9–8–64, Cl. 8—4.
Gagliardi, Domenick D. Treatment of polyolefin articles and resulting products. 3,150,917, 9–29–64, Cl. 8—55.
Gagliardi, Domenick D., and W. J. Jutras, Jr., to Argus Chemical Corp. Tributyl-tin salt of levulinic hydantoin. 3,117,-130, 1–7–64, Cl. 260—299.
Gagliardo, Joseph J.: *See*—
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Cousteau, Jacques Y., Gagnan, and Alinat. 3,131,406.
Gagnan, Emile, and J. Y. Cousteau, to La Spirotechnique. Acoustic warning assembly for skin diving apparatus. 3,144,171, 8–11–64, Cl. 222—3.
Gagnan, Emile, and J. Y. Cousteau, to La Spirotechnique. Flow signal for compressed gas tanks. 3,149,752, 9–22–64, Cl. 222—3.
Gagnaux, Pierre: *See*—
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Gagnier, Walter. Adjustable mount for a telescopic firearm sight. 3,134,174, 5–26–64, Cl. 33—50.
Gagniere, Claude, to Charbounages de France. Protection device for electric networks. 3,119,049, 1–21–64, Cl. 317—9.
Gagniere, Claude, to Charbounages de France. Electric network protection device. 3,119,050, 1–21–64, Cl. 317—29.
Gagniere, Claude, and P. Belugou, to Charbonnager de France. Devices for detecting earth faults in electric distribution networks. 3,158,785, 11–24–64, Cl. 317—18.
Gagnon, George A., to Warwick Electronics Inc. Stand up insertion heads. 3,149,340, 9–22–64, Cl. 1—323.
Gagnon, George A., and M. R. Parke, to Warwick Mfg. Corp. Pin inserting machine. 3,134,982, 6–2–64, Cl. 1—28.
Gagnon, Pierre, and P. Laforest, to Paco Corp. Elevator system. 3,149,732, 9–22–64, Cl. 214—6.
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Gaido, San J., to Gaido-Lingle Co., Inc. Butt edge joining of enamel coated pipes. 3,138,861, 6–30–64, Cl. 29—475.
Gailliot, Paul, and J. G. Baget., to Rhone-Poulenc S.A. 4-quinolyl-aminoalkylamino derivatives. 3,126,384, 3–24–64, Cl. 260—268.
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Galati, Vincent J., and E. L. Herd, to United States of America, Air Force. Inclined chassis mounting for electronic equipment. 3,162,498, 12–22–64, Cl. 312—323.
Galbierz, Jerome J., and P. J. Ditto, to R. C. Can Co. Collision-proof paper or fiber walled container. 3,162,348, 12–22–64, Cl. 229—5.6.

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Bachrich, Jakob L. 3,149,932.
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Gale, Alfred J., to High Voltage Engineering Corp. Brushless high voltage D.C. electrostatic machine. 3,143,671, 8–4–64, Cl. 310—6.
Gale, Donald J.: *See*—
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Gale, Donald J., and H. H. Kuhn, to Deering Milliken Research Corp. Polyethyleneoxy azo fugitive tints. 3,154,534, 10–27–64, Cl. 260—198.
Gale, Ronald, to Victor Products Corp. Dispensing machine for beverages in bottles or cans. 3,158,247, 11–24–64, Cl. 194—10.
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Gale, William J., ½ to Trojan Ltd. Tractor attachments. 3,155,415, 11–3–64, Cl. 294—67.
Gale, William S., to McCord Corp. Soldering flux and method. 3,119,179. 1–28–64, Cl. 29—495.
Galejs, Janis, to Sylvania Electric Products Inc. Frequency modulation distance indicator. 3,132,340, 5–5–64, Cl. 343—14.
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Huffman, Charles O., Mission, and Galey. 3,146,926.
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Galinke, Joachim, and M. Dohr, to Henkel & Cie G.m.b.H. Process for the preparation of modified melamine resins. 3,130,178, 4–21–64, Cl. 260—67.6.
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Gallaccio, Anthony, and R. W. Wick, to United States of America, Army. Dulling hard aluminum oxide coatings on aluminum-rich basis metals. 3,140,245, 7–7–64, Cl. 204—35.
Gallacher, Andrew F., to Canada Iron Foundries, Ltd. Electric conducting means for metal pipes. 3,152,220, 10–6–64, Cl. 174—84.
Gallagher, Bernard S.: *See*—
Emmons, William J., and Gallagher. 3,141,581.
Gallagher, Cornelius A., and J. F. McDonald, to Servo Corp. of America. Railroad-wheel trip. 3,151,827, 10–6–64, Cl. 246—249.
Gallagher, Edward F., to Gallagher-Kaiser Corp. Spray booth. 3,119,675, 1–28–64, Cl. 55—257
Gallagher, Frank L., P. T. Spottiswoode, and N. L. Sherman, ½ to Rohm & Haas Co., and ½ to St. Regis Paper Co. Masking paper having a rugose coating of rubber latex. 3,152,921, 10–13–64, Cl. 117—68.5.
Gallagher, George A.: *See*—
Albin, Jerry R., and Gallagher. 3,136,745.
Gallagher, Gerald T., and E. J. Elliott, to FMC Corp. Process of alkaline scouring and peroxide bleaching of gray cotton cloth. 3,148,019, 9–8–64, Cl. 8—111.
Gallagher, Helen S. Reversible shirt dickey. 3,155,985, 11–10–64, Cl. 2—115.
Gallagher, James A., F. C. La Motta, and W. L. Van Nostrand, Jr., to Esso Research and Engineering Co. Heat stabilizing vinyl resins. 3,125,549, 3–17–64, Cl. 260—45.7.
Gallagher, James P.: *See*—
Foster, Robert L., Anderson, and Gallagher. 3,151,059.
Reed, Herbert B., and Gallagher. 3,149,217.
Gallagher, James P., to Sinclair Research, Inc. Selective isomerization process. 3,146,279, 8–25–64, Cl. 260—683.65.
Gallagher, John J., to Poor & Co. Method of making tie plate bearing rail anchors. 3,136,048, 6–9–64, Cl. 29—417.
Gallagher, John P. Method of making plastic containers. 3,148,103, 9–8–64, Cl. 156—224.
Gallagher-Kaiser Corp.: *See*—
Gallagher, Edward F. 3,119,675.
Gallagher, Raymond A.: *See*—
Fritz, Harry E., Gallagher, Galloway, Kerr, Plumb, Rittenhouse, and Sinnamon. 3,117,597.
Gallagher, Robert T., to Carey-McFall Co. Connector. 3,145,443, 8–25–64, Cl. 24—239.
Gallagher, Thomas H. Jointer and raking tool. 3,155,997, 11–10–64, Cl. 15—105.5.
Gallamos, Constancio R. Lossproof pen band. 3,157,925, 11–24–64, Cl. 24—13.
Galland-Henning Mfg. Co.: *See*—
Schwartz, Roy C. 3,159,086.
Gallant, Reginald R., and W. M. Preston, to Underwood Corp. Platen adjusting means for typewriters. 3,154,184, 10–27–64, Cl. 197—149.
Gallard, Jean H. M., and P. L. Sigel, to Compagnie des Machines Bull. Tape feeding apparatus. 3,162,345, 12–22–64, Cl. 226—95.
Gallas, Leonard E., to Control Switch Division of Controls Co. of America. Positive feel actuator. 3,121,777, 2–18–64, Cl. 200—172.
Gallaugher, Thomas L., to World Marine, Inc. Boat anchor. 3,158,127, 11–24–64, Cl. 114—206.
Gallaway, Norris W., to American Mfg. Co. of Texas. Automatic counterbalance for pumping unit including hydraulic brake. 3,130,601, 4–28–64, Cl. 74—590.
Gallaway, Norris W., and J. E. Lott, to American Mfg. Co. of Texas. Multiple stage pumping unit. 3,143,968, 8–11–64, Cl. 103—5.
Gallaway, William S.: *See*—
Burnell, Maurice R., Foster, and Gallaway. 3,134,898.
Gallaway, William S., R. A. Foster, J. C. Sternberg, and R. A. Dora, to Beckman Instruments, Inc. Flame ionization detection of materials. 3,140,919, 7–14–64, Cl. 23—232.
Galle, Edward M.: *See*—
Medlock, James D., Galle, and Atkinson. 3,125,174.
Medlock, James D., Galle, and Atkinson. 3,125,175.
Galleher, Ellis A., Jr. Oral inhaler or applicator with sealing means. 3,139,088, 6–30–64, Cl. 128—208.
Galler, Edward A., to The Cushman Chuck Co. Center-adjustable chuck adapter. 3,129,950, 4–21–64, Cl. 279—1.
Galley, Fred C., to American Radiator & Standard Sanitary Corp. Gas valve. 3,126,911, 3–31–64, Cl. 137—495.
Galley, Hollis T.: *See*—
Abel, Edward P., Galley, and Gerhardt. 3,152,940.
Galley, Robert: *See*—
Dreyfus, Gaspard P., Ertaud, Friberg, Galley, Julia, and Panossian. 3,150,822.
Gallistel, Albert F., to Waldorf Paper Products Co. Reinforcing pad for container liner. 3,144,188, 8–11–64, Cl. 229—14.
Gallmeyer & Livingston Co.: *See*—
Fant, William J., and Van Wyk. 3,157,969.
Gallo, John, Sr. Dispensing device. 3,135,428, 6–2–64, Cl. 222—94.
Gallo, Joseph. Fresh flower holder. 3,150,462, 9–29–64, Cl. 47—55.
Gallo, Joseph S. Foam anchor. 3,148,480, 9–15–64, Cl. 47—41.12.
Gallousis, George, to Allis-Chalmers Mfg. Co. Current transformer. 3,147,456, 9–1–64, Cl. 336—173.
Galloway, Benjamin J. Bullet mold stand. 3,126,594, 3–31–64, Cl. 22—90.
Galloway, Charles W., to Douglas Aircraft Co., Inc. Hydraulic cap and pressure ring seal. 3,149,848, 9–22–64, Cl. 277—165.
Galloway, Ethan C., to The Dow Chemical Co. Preparation of diaminopimelic acid. 3,122,583, 2–25–64, Cl. 260—531.
Galloway, Frederick M.: *See*—
Fritz, Harry E., Gallagher, Galloway, Kerr, Plumb, Rittenhouse, and Sinnamon. 3,117,597.
Galloway, Frederick M., R. M. Kerr, G. J. Rittenhouse, and R. H. Sinnamon, to H. K. Porter Co., Inc. Buoyant hose. 3,119,415. 1–28–64, Cl. 138—103.
Galloway, Richard T., to United States of America, Navy. Apparatus for determining the direction of arrival of wave energy. 3,130,385, 4–21–64, Cl. 340—6.
Galloway, Richard T., to United States of America, Navy. Steering indicator for range-bearing navigation system. 3,160,878, 12–8–64, Cl. 343—5.
Galloway, Robert K., to FMC Corp. Carton handling apparatus. 3,156,167, 11–10–64, Cl. 93—53.
Gallus, Julius P.: *See*—
Eckel, John E., and Gallus. 3,149,684.
Gallus, Julius P., to Jersey Production Research Co. Method for sealing porous surfaces. 3,123,158, 3–3–64, Cl. 175—59.
Gallus, Julius P., G. D. Ortloff, and B. T. Willman, to Jersey Production Research Co. Method of sampling underground formations. 3,158,209, 11–24–64, Cl. 175—59.
Gally, Jean-Jacques: *See*—
Rolin, Maurice, and Gally. 3,141,835.
Galmarini, Oscar L.: *See*—
Cataldi, Maria S., Pahn, and Galmarini. 3,159,541.
Galmiche, Philippe, to Office National d'Etudes et de Recherches Aerospatiales called O.N.E.R.A. Methods of treating metallic powders. 3,157,532, 11–17–64, Cl. 117—100.
Galneder, Franz X.: *See*—
Bauer, John G., and Galneder. 3,136,040.
Galonska, David A., and G. A. Widmoyer, to General Motors Corp. Ball bearing nut and screw assembly. 3,145,580, 8–25–64, Cl. 74—459.
Galonska, Walter O., to Talon, Inc. Apparatus for forming filamentary material for slide fasteners. 3,133,315, 5–19–64, Cl. 18—19.
Galorneau, Louis C., and J. G. Fowler. Tool holder. 3,143,177, 8–4–64, Cl. 175—413.
Galpin, Robert K. P., to Associated Electrical Industries Ltd. Hall effect apparatus. 3,161,845, 12–15–64, Cl. 338—32.
Galson, Allen E., to United States of America, Atomic Energy Commission. Pressure relief device for neutronic reactors. 3,123,533, 3–3–64, Cl. 176—38.
Galster, Helmuth, to Bran & Lubbe Wasseraufbereitung Maschinen-und Apparatebau. Apparatus for automatic titration. 3,121,614, 2–18–64, Cl. 23—253.
Galvin, Joseph T.: *See*—
Altman, Frank, Jr., Galvin, and Brown. 3,145,889.
Galvin, Ralph B. Heating apparatus. 3,128,756, 4–14–64, Cl. 126—116.
Gam Electronics, Inc.: *See*—
Nuttle, Andrew C. 3,145,384.

Gambale, John C., to Westinghouse Electric Corp. Protective relay assemblies. 3,144,586, 8–11–64, Cl. 317—36.
Gamberg, Edward R., to Westinghouse Electric Corp. Electrode for arc welding and method of using such electrode. 3,160,732, 12–8–64, Cl. 219—74.
Gamberini, Goffredo, to American Machine & Foundry Co. Tobacco cutter. 3,117,602, 1–14–64, Cl. 146—119.
Gamberini, Goffredo, to American Machine & Foundry Co. Cigarette package conveying and grouping machine. 3,125,378, 3–17–64, Cl. 302—2.
Gambill, Charles C., and A. B. Roby, to General Motors Corp. Electric range heater control. 3,161,759, 12–15–64, Cl. 219—494.
Gambill, Marvin. Hot caustic treatment of earth formations. 3,129,760, 4–21–64, Cl. 166—38.
Gambino, John R., to General Electric Co. Rare earth-iron garnet preparation. 3,131,082, 4–28–64, Cl. 117—49.
Gambino, Richard J., to United States of America, Army. Method of growing single crystals. 3,150,925, 9–29–64, Cl. 23—50.
Gamble Brothers, Inc.: *See*—
Dosker, Cornelius D. 3,142,600.
Gamble, Charles S. Organ drawbar demonstrator device. 3,143,914, 8–11–64, Cl. 84—343.
Gamble, Joseph H., and W. C. Woods, to United States of America, Navy. Frequency modulator for magnetron pulses utilizing variably phase shifted reflection from mismatch to pull magnetron frequency. 3,149,292, 9–15–64, Cl. 332—5.
Gamble, Leon W.: *See*—
Anderson, Joseph S., Gamble, Padgett, and Ray. 3,153,-681.
Gamblin, Rodger L., to International Business Machines Corp. Electromechanical transducer. 3,117,256, 1–7–64, Cl. 317—166.
Gamertsfelder, George R.: *See*—
Stavis, Gus, Gamertsfelder, and Lurie. 3,150,323.
Gamet, Louis J., to La Precision Industrielle. Machine tool spindle bearing assemblies. 3,144,283, 8–11–64, Cl. 308—207.
Gamewell Co. The: *See*—
Fieser, Garland E. 3,126,522.
Fieser, Garland E., and Schrepel. 3,133,264.
Hendricks, George D. 3,120,651.
Komatar, Frederick A. 3,125,291.
Gamichon, Denise M. N. Bedding articles. 3,134,110, 5–26–64, Cl. 5—336.
Gamma Research Laboratory Corp.: *See*—
Shuck, Richard L., and Lawlor. 3,118,720.
Gammie, John E., to Koehring Co. Rail threader. 3,120,819, 2–11–64, Cl. 104—5.
Gamo, Hideya, to International Business Machines Corp. Optical phase measuring apparatus. 3,134,840, 5–26–64, Cl. 88—14.
Gamo, Hideya, to International Business Machines Corp. Optical phase angle measuring apparatus. 3,160,696, 12–8–64, Cl. 88—14.
Ganahl, Alfred, to Ernest H. Fischer's Sohne, Aktiengesellschaft. Hydraulic piston machines. 3,123,013, 3–3–64, Cl. 103—161.
Gancel, Pierre: *See*—
Desvignes, Jean L., and Gancel. 3,145,807.
Gancel, Pierre, to Societe Anonyme D.B.A. Spot type disc brakes. 3,145,806, 8–25–64, Cl. 188—73.
Gancel, Pierre, to Societe Anonyme D.B.A. Disc brakes. 3,155,194, 11–3–64, Cl. 188—73.
Gancel, Pierre, to Societe Anonyme D.B.A. Yoke-caliper type disc brake. 3,162,272, 12–22–64, Cl. 188—73.
Ganchar, Leonard N., and J. Petro, to Commercial Shearing & Stamping Co. Multiple stage telescopic cylinders. 3,128,-674, 4–14–64, Cl. 91—167.
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De Ruggieri, Pietro, and Gandolfi. 3,129,220.
De Ruggieri, Pietro, and Gandolfi. 3,134,771.
De Ruggieri, Pietro, Gandolfi, and Chiaramonti. 3,137,710.
De Ruggieri, Pietro, Gandolfi, and Chiaramonti. 3,153,-063.
De Ruggieri, Pietro, Gandolfi, and Guzzi. 3,159,618.
Gandon, Louis, to Nobel-Bozel. Preparation of silica gels from alkaline silicates and polyalcohol esters. 3,149,985, 9–22–64, Cl. 106—74.
Gandy, Robert W., to Telephone Cables Ltd. Method of making a thermoplastic joint. 3,133,846, 5–19–64, Cl. 156—49.
Ganellin, Charon R.: *See*—
Jack, David, Spickett, and Ganellin. 3,159,634.
Gangbin, Marvin. Artificial daylight fixture. 3,152,763, 10–13–64, Cl. 240—1.1.
Ganguet, William A., and G. D. McKenzie. Cotton harvester. 3,144,744, 8–18–64, Cl. 56—31.
Ganguin, Karl O., D. W. C. Ramsay, and A. E. Kaye, to Ilford Ltd. Photographic developers. 3,134,673, 5–26–64, Cl. 96—66.
Ganowsky, Raymond J. Rotary solenoid. 3,144,593, 8–11–64, Cl. 317—165.
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Sherwood, Edwin T., and Ganiere. 3,130,359.
Ganitta, Eugen, and G. Vogel, to International Standard Electric Corp. Transistorized telephone subsets. 3,153,703, 10–20–64, Cl. 179—84.
Gann, James R., to Gann Machine Shop. Hosiery boarding machine. 3,121,520, 2–18–64, Cl. 223—76.
Gann Machine Shop: *See*—
Gann, James R. 3,121,520.
Gannaway, Edwin L.: *See*—
Comstock, Russell E., and Gannaway. 3,138,358.
Gannett, Wright K.: *See*—
Mast, Gifford M., and Gannett. 3,155,979.
Gannett, Wright K., to United States of America, Navy. Stereoscopic viewer. 3,137,760, 6–16–64, Cl. 88—29.
Gannon, Robert L.: *See*—
Blasch, Friedrich A. 3,154,358.
Grindheim, Earl A., Stenstrom, and Walus. 3,154,066.
Stenstrom, Arthur J., and Walus. 3,154,067.
Ganouna-Cohen, Gilbert, M. Dieval, C. Renaut, H. Rigaut, and J. Savouyaud. Electrostatic relay for measuring small currents and charges. 3,153,710, 10–20–64, Cl. 200—87.
Gans, Eugene H., to Hoffmann-La Roche Inc. Highly acidic cation exchange resin containing amprotropine cations. 3,131,121, 4–28–64, Cl. 167—55.
Gans, Manfred, to Halcon International Inc. Method for the removal of deposited crude maleic acid. 3,120,455, 2–4–64, Cl. 134—30.
Gans, Manfred, to Halcon International, Inc. Maleic anhydride composition and method of making same. 3,127,-419, 3–31–64, Cl. 260—346.8.
Gans, Manfred, and J. L. Russell, to Halcon International, Inc. Composition consisting of maleic anhydride and a fatty acid. 3,140,300, 7–7–64, Cl. 260—346.8.
Gans, Manfred, and R. W. Simon, to Halcon International, Inc. Stabilized maleic anhydride. 3,141,026, 7–14–64, Cl. 260—346.8.
Gant, Mary E. Sprocket arrangement. 3,156,130, 11–10–64, Cl. 74—243.
Gant, Preston L.: *See*—
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Gantz, Emmett J. Bird cage feeder device. 3,119,372, 1–28–64, Cl. 119—18.
Gantz, Jack I. Hydraulic leverage shear. 3,136,193, 6–9–64, Cl. 83—380.
Ganz, Daniel M., to Darrol Co. Adjustable display device. 3,162,148, 12–22–64, Cl. 108—10.
Ganz, Ernest D., and P. P. Grad, to Aerovox Corp. Method for impregnating capacitors. 3,116,535, 1–7–64, Cl. 29—25.41.
Ganz, Robert H., to Continental Can Co., Inc. Method and machine for positioning articles to be packaged. 3,119,482, 1–28–64, Cl. 198—33.
Ganzhorn, Karl: *See*—
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Gapp, Roland H., to Townsend Co. Rivet and method of riveting. 3,148,578, 9–15–64, Cl. 85—77.
Gapstur, John J., to Rubbermaid Inc. Rotary and percussive tool. 3,123,156, 3–3–64, Cl. 173—48.
Garabello, Giuseppe. Fuel tank control. 3,133,741, 5–19–64, Cl. 280—5.
Garabon, John. Paint applicators. 3,148,402, 9–15–64, Cl. 15—573.
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La Bossiere, Edgar L. 3,154,882.
Garbe, George F. W., to The United States Time Corp. "D" jewel watch escapement. 3,146,581, 9–1–64, Cl. 58—122.
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Keuchen, Erich, and Hoven. 3,163,769.
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Laakso, Thomas M., Williams, and Garber. 3,125,550.
Garber, Mike I., and H. Goldberg, to Miniwheel Ltd. Buckle. 3,156,961, 11–17–64, Cl. 24—84.
Garber, Roy W., to Jackson Mfg. Co. Row marker. 3,157,-316, 11–17–64, Cl. 222—169.
Garbers, Ernst. Method of an arrangement for automatically controlling the release operation in a marshalling yard. 3,141,420, 7–21–64, Cl. 104—26.
Garbett, Thomas A.: *See*—
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Garbo, Paul W., to Hydrocarbon Research, Inc. Process and apparatus for liquid-gas reactions. 3,151,060, 9–29–64, Cl. 208—213.
Garbus, Adolph J.: *See*—
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Gardiner, Terence E. G., and Garbutt. 3,156,298.
Gardiner, Terence E. G., Garbutt, and Davis. 3,135,417.
Garcea, Gianpaolo, to Alfo Romeo, S.p.A. Regulator for injection pumps for carburetor engines. 3,146,770, 9–1–64, Cl. 123—140.
Garcia, Arnulfo: *See*—
Penã, Jose M. 3,130,932.
Garcia, Daniel S. Floor and ceiling construction. 3,127,704, 4–7–64, Cl. 50—389.
Garcia, Manuel H.: *See*—
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Garcia Oller, José L. Radiological apparatus wherein the patient support and X-ray sources are supported on a rotatable horizontal shaft. 3,141,972, 7–21–64, Cl. 250—55.
Garcia, Pedro A. Method of manufacturing shoes. 3,117,-331, 1–14–64, Cl. 12—142.
Garcy Corp.: *See*—
Ruhnke, Richard R. 3,160,281.
Zurawski, Edward F. 3,154,001.
Gard Industries, Inc.: *See*—
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Gard, Jerold H., to Kaiser Aerospace & Electronic Corp. Triangular waveform generator with means for selectively allowing wide-angle swing of waveform slopes. 3,150,272, 9–22–64, Cl. 307—88.5.

Gard, Kenneth V. J., to Flight Refuelling Ltd. Pressure responsive flow control valves. 3,125,115, 3–17–64, Cl. 137—220.

Gardel, Robert, and E. Gorsky. Crying doll mechanism. 3,136,089, 6–9–64, Cl. 46—232.

Gardella, John M., to The S. S. White Dental Mfg. Co. Tray support for a dental unit. 3,160,379, 12–8–64, Cl. 248—124.

Gardella, William A. Model airplane launching anchor. 3,154,883, 11–3–64, Cl. 46—78.

Garden, William B., to Wilson & Garden Ltd. Tensioning device for a board for educational purposes. 3,142,194, 7–28–64. Cl. 74—242.14.

Gardener, Reginald H., to Northwest Industries Ltd. Heating element. 3,139,518, 6–30–64, Cl. 219—522.

Gardener, Reginald H., to Northwest Industries Ltd. Process utilizing shuttle moulds. 3,142,716, 7–28–64, Cl. 264—272.

Gardener, Reginald H., to Northwest Industries Ltd. Mobile means for plasticizing and applying thermoplastic materials and including injection molding and extrusion. 3,154,-811, 11–3–64, Cl. 18—12.

Gardenier, Karl-Josef: *See*—
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Gardenier, Karl-Josef, and H. Kothe, to Henkel & Cie G.m.b.H. Process for the preparation of sultones. 3,146,242, 8–25–64, Cl. 260—327.

Gardes, Alfred W., and J. R. Rosenski, to International Register Co. Coin controlled time switch with reset cam. 3,162,733, 12–22–64, Cl. 200—35.

Gardhouse, Percy H. Multiple hull water craft. 3,116,708, 1–7–64, Cl. 114—61.

Gardi, Rinaldo: *See*—
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Ercoli, Alberto, and Gardi. 3,120,548.
Ercoli, Alberto, and Gardi. 3,135,744.
Ercoli, Alberto, and Gardi. 3,139,425.
Ercoli, Alberto, and Gardi. 3,147,249.
Ercoli, Alberto, and Gardi. 3,152,154.
Ercoli, Alberto, and Gardi. 3,154,569.
Ercoli, Alberto, and Gardi. 3,159,620.

Gardiner, Albert J. Collapsible and reusable container. 3,148,821, 9–15–64, Cl. 229—41.

Gardiner, Frank J., to I-T-E Circuit Breaker Co. Structure for rotating seals. 3,120,919, 2–11–64, Cl. 230—69.

Gardiner, Frank J., to I-T-E Circuit Breaker Co. Pressure transformer. 3,145,909, 8–25–64, Cl. 230—69.

Gardiner, Paul C., and A. O. Jensen, to General Electric Co. Gas discharge gap tube. 3,119,040, 1–21–64, Cl. 313—214.

Gardiner, Ralph G., to FMC Corp. Apparatus for feeding and orienting fruit. 3,151,729, 10–6–64, Cl. 198—33.

Gardiner, Terence E. G., and P. W. Davis, to Bristol Siddeley Engines Ltd. Jet propulsion nozzles. 3,134,226, 5–26–64, Cl. 60—35.54.

Gardiner, Terence E. G., R. Garbutt, and P. W. Davis, to Bristol Aerojet Ltd. Plugs for pipes and locking means therefor. 3,135,417, 6–2–64, Cl. 220—55.3.

Gardiner, Terence E. G., and R. Garbutt, to Bristol Siddeley Engines Ltd. Heat shielding for ducts. 3,156,298, 11–10–64, Cl. 165—134.

Gardiner, William C., to Olin Mathieson Chemical Corp. Mercury cathode electrolytic cells. 3,140,991, 7–14–64, Cl. 204—219.

Gardipee, Walter E. Unloading conveyor for dump trucks. 3,122,251, 2–25–64, Cl. 214—509.

Gardner, Adryl W. Multiple-wheel articulated drive axle and vehicle. 3,161,250, 12–15–64, Cl. 180—22.

Gardner, Cyril, and J. F. Prescott, to Imperial Chemical Industries Ltd. Purification of hydrogenation products. 3,149,162, 9–15–64, Cl. 260—582.

Gardner, Cyril, and R. G. A. New, to Imperial Chemical Industries Ltd. Process for the catalytic reduction of dinitrotoluenes. 3,154,584, 10–27–64, Cl. 260—580.

Gardner, David M.: *See*—
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Gardner, David M., to Pennsalt Chemicals Corp. Monopropellant comprising sulfuric acid nitrosyl-pyrosulfate and a fuel stable to sulfuric acid. 3,138,500, 6–23–64, Cl. 149—74.

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Baker, William J. 3,143,307.
Bent, John H. 3,126,766.
Loy, Fred W., and Baker. 3,117,736.
Nelson, Arvid L., Saeger, and Seckman. 3,140,642.
Olds, William L., and Baker. 3,156,337.
Pohs, Henry A. 3,135,356.
Sorensen, Clarence A., and Workman. 3,129,642.
Wensing, Francis M., and Yerbury. 3,117,756.
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Winston, Earl B. 3,154,100.

Gardner, Donald B., to International Telephone and Telegraph Corp. Anti-slug control for refrigeration circuits. 3,130,-558, 4–28–64, Cl. 62—197.

Gardner, Donald H., to Harsco Corp. Die set bushing and method of assembling a bushing in a die set. 3,118,217, 1–21–64, Cl. 29—149.5.

Gardner, Donald H., to Elastic Die Engineering Co. Die cushion. 3,152,564, 10–13–64, Cl. 113—46.

Gardner, Donald H., to Elastic Die Engineering Co. Die cushion. 3,152,565, 10–13–64, Cl. 113—46.

Gardner, Donald L. Exhaust and water injector for internal combustion engines. 3,139,873, 7–7–64, Cl. 123—119.

Gardner, Douglas B., and F. B. Kuffer, to Beckman Instruments, Inc. Meter with adjustable pointer reference markers. 3,145,339, 8–18–64, Cl. 324—157.

Gardner, Ernest A. Necktie storage device. 3,131,805, 5–5–64, Cl. 206—7.

Gardner, Ernest A., to Count-Way, Inc. Measuring systems. 3,133,604, 5–19–64, Cl. 177—1.

Gardner, Ernest A., and P. T. McCauley, to Count-Way, Inc. Measurement and control systems. 3,133,607, 5–19–64, Cl. 177—108.

Gardner, Frank H., and D. T. Codd, said Gardner, assor, to Air Reduction Co., Inc. Anaesthetic and analgesic inhalers. 3,162,192, 12–22–64, Cl. 128—188.

Gardner, Frederick H., and R. E. Smith, to North American Aviation, Inc. Compressible fluid metering apparatus. 3,132,767. 5–12–64, Cl. 222—3.

Gardner, Grayson E., Jr., to General Motors Corp. Brush lead connection for dynamoelectric machine. 3,127,533, 3–31–64, Cl. 310—245.

Gardner, Guy F.: *See*—
Todd, Everett W., and Gardner. 3,117,541.

Gardner, Hal. Lift truck. 3,133,655, 5–19–64, Cl. 214—652.

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Gardner, James D.: *See*—
Bassinger, Ross, and Gardner. 3,132,704.

Gardner, John L., and J. P. Kottenstette. Recording bathroom scale. 3,154,159, 10–27–64, Cl. 177—10.

Gardner, John N., and G. L. Willey, to Smith Kline & French Laboratories. New benzo-1,3-dioxole derivatives. 3,149,-128. 9–15–64, Cl. 260—340.5.

Gardner, John N., and G. L. Willey, to Smith Kline & French Laboratories. Benzo-1,3-dioxole derivatives. 3,149,129, 9–15–64, Cl. 260—340.5.

Gardner, John R.: *See*—
Block, Charles, and Gardner. 3,140,645.

Gardner, Lawrence H. Elastic sleeve valve. 3,145,967, 8–25–64, Cl. 251—5.

Gardner, Leland C., Sr., and L. F. Waldrop, Jr. Pipe joint for soil pipes having wedge locking means. 3,148,902, 9–15–64, Cl. 285—339.

Gardner Mfg. Co.: *See*—
Peterson, Lawrence W. 3,144,113.

Gardner, Mark B.: *See*—
Barney, Harold L., and Gardner. 3,156,316.
Flanagan, James L., and Gardner. 3,161,838.

Gardner, Mark B., to Bell Telephone Laboratories, Inc. Transmission control in signaling system. 3,128,353, 4–7–64, Cl. 179—170.6.

Gardner, Mark B., and J. R. Nelson, to Bell Telephone Laboratories, Inc. Control of dynamic range and sensitivity of echo suppressor circuits. 3,145,269, 8–18–64, Cl. 179—170.6.

Gardner, Norman S. Molded plastic tampon applicator. 3,124,134, 3–10–64, Cl. 128—263.

Gardner, Percy S., Jr. Undersea mining apparatus with means to establish a pressure balance across the inlet to the conveyor tube. 3,143,816, 8–11–64, Cl. 37—71.

Gardner, Raymond, Jr.: *See*—
Cooksey, John C., Rowlands, and Gardner. 3,159,734.

Gardner, Thomas S., J. Lee, and E. Wenis, to Hoffmann-La Roche Inc. Sugar acid derivatives of aralkylhydrazines. 3,129,259, 4–14–64, Cl. 260—562.

Gardner, Weldon J.: *See*—
Foltz, James R., Gardner, and Strausberg. 3,140,151.

Gardner, William A.: *See*—
Mihram, Russell G., and Gardner. 3,153,580.

Gardner, Willis W.: *See*—
Gruber, Jerome M., and Gardner. 3,129,417.

Gardner, Wills W., to Waukesha Bearings Corp. Equalizing arrangements for tandem thrust bearings. 3,158,415, 11–24–64, Cl. 308—160.

Gardocki, Joseph F.: *See*—
Janssen, Paul A. J., and Gardocki. 3,141,823.

Gardon, John L., to Rohm & Haas Co. Method of crease-proofing cellulosic fabrics and products thereof. 3,125,405, 3–17–64, Cl. 8—116.3.

Gardpon, John L., and L. S. Luskin, to Rohm & Haas Co. Treatment of cellulosic fabrics and the products thereby obtained. 3,122,411, 2–25–64, Cl. 8—116.

Gare, Morris R. Water purifying device for aquariums. 3,152,987, 10–13–64, Cl. 210—169.

Garetto, Giuseppe, to Rhodiatoce-S.p.A. Method of coating with powdered cellulose acetate. 3,148,077, 9–8–64, Cl. 117—21.

Garfield, William L.: *See*—
Strong, Charles E., Garfield, and Lawson. 3,141,166.

Garfield, William L., to International Standard Electric Corp. Radio receiver including a monitoring circuit indicating an output upon input exceeding predetermined frequency. 3,149,243, 9–15–64, Cl. 307—88.5.

Garfola, Emma L.: *See*—
Carlson, Gus A. 3,135,560.

Gargrave, Rebecca G.: *See*—
Gargrave, Robert A. 3,145,861.

Gargrave, Robert A., deceased, by R. G. Gargrave, executrix, to Dayton Perforators, Inc. Work holder. 3,145,861, 8–25–64, Cl. 214—340.

Garibaldi, John A., and H. G. Bayne, to United States of America, Agriculture. Method of washing eggs. 3,131,067, 4–28–64, Cl. 99—113.
Gariepy, Henry J. Adjustable warp-resisting leg holder plate. 3,136,517, 6–9–64, Cl. 248—188.
Gariepy, Henry J. Upholstered furniture. 3,146,029, 8–25–64, Cl. 297—445.
Garland, Claude B. Forward and reverse transmission with brake. 3,132,729, 5–12–64, Cl .192—4.
Garland, John: *See*—
London, Joseph C., and Garland. 3,131,042.
Garland, Philip L., Jr., to Avisun Corp. Article carrier. 3,151,792, 10–6–64, Cl. 224—45.
Garland, Robert B., to G. D. Searle & Co. 2-(hydroxy/oxy)-N,N-di(lower alkyl)-5-(6-methoxy-2-naphthyl)cyclopentane-acetamides and congeners. 3,152,179, 10–6–64, Cl. 260—559.
Garland, Robert B., to G. D. Searle & Co. 17α-(2-carboxy-ethyl)-17β-hydroxy-6-nitroandrost-4-en-3-one γ-lactones. 3,159,622, 12–1–64, Cl. 260—239.57.
Garland, Ronald M., and E. S. Ashford, to Veeder-Root Inc. Apparatus for dispensing preselected mixtures of liquids. 3,141,572, 7–21–64, Cl. 222—28.
Garlasco, Christie B., Jr.: *See*—
Miller, Kenneth J., Peterson, and Garlasco. 3,132,617.
Garlinghouse Brothers: *See*—
Garlinghouse, Leslie H. 3,132,848.
Garlinghouse, Leslie H., to Garlinghouse Brothers. Quick mixer. 3,132,848, 5–12–64, Cl. 259—72.
Garlock Inc.: *See*—
Fisher, Edward W. 3,155,566.
Genz, Orville F. 3,155,014.
Genz, Orville F. 3,155,015.
Klein, Donald E. 3,147,982.
Schirmer, Alfred F. 3,144,253.
Webster, James R., Houghton, and Veit. 3,124,032.
Garmaise, David L.: *See*—
McKay, Arthur F., and Garmaise. 3,117,994.
Garmon, Thelbert W. Form for casting concrete wall slab. 3,148,429, 9–15–64 Cl. 25—1.
Garms, Ralph F.: *See*—
Himes, John M., and Garms. 3,161,036.
Garmy, Robert J., to Republic Steel Corp. Safety controls for electric furnaces. 3,118,013, 1–14–64, Cl. 13—9.
Garn, Wilhelm: *See*—
Griebsch, Eugen, and Gorn. 3,152,044.
Garnell, Lloyd L.: *See*—
Dwyer, Anthony A., Garnell, McClay, and Sealock. 3,159,351.
Garner, Albert Y.: *See*—
Abramo, John G., Chapin, and Garner. 3,143,569.
Abramo, John G., Garner, and Chapin. 3,161,667.
Chapin, Earl C., and Garner. 3,158,642.
Garner, Albert Y., to Monsanto Chemical Co. Novel phosphonyl polymers. 3,127,357, 3–31–64, Cl. 260—2.
Garner, Albert Y., to Monsanto. Polyphosphinate resins. 3,161,607, 12–15–64, Cl. 260—2.
Garner, Albert Y., to Monsanto Co. Phosphine oxide polymers. 3,161,687, 12–15–64, Cl. 260—606.5.
Garner, Edward V., to Bird Machine Co. Centering of rotary members. 3,144,784, 8–18–64, Cl. 74—411.
Garner, Harold K.: *See*—
Yates, Edwin T., and Garner. 3,157,625.
Garner, Kenneth B., and J. E. Ranger, to Combustion Engineering, Inc. Moving-tube solid panel welder. 3,127,503, 3–31–64, Cl. 219—129.
Garnett, Donald W.: *See*—
Olofsson, Gustav A., and Garnett. 3,156,311.
Garnett, John M., Jr. Mortar spreader. 3,148,432, 9–15–64, Cl. 25—118.
Garnett, Lawrence T., to Robertshaw Controls Co. Sealed electromechanical force balance unit with an externally adjustable magnetic circuit. 3,127,558, 3–31–64, Cl. 324—34.
Garnich, Alvin B., to The Yale and Towne Inc. Fork extending and side shifting construction. 3,142,400, 7–28–64, Cl. 214—730.
Garnick, Philip, W. H. Benner, and L. G. Wynne, to Sigma Instruments, Inc. Photosensitive control circuit with automatic rearming. 3,129,360, 4–14–64, Cl. 317—124.
Garnier, Henri L., L. Rubet, and R. H. F. Marchal, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Turbo-molecular vacuum pump. 3,138,318, 6–23–64, Cl. 230—122.
Garofalo, Frank, to United States Steel Corp. Method of treating boron coated steel to eliminate Lüders' bands. 3,151,001. 9–29–64, Cl. 148—14.
Garofalo, Vito M., to L. Cohen. Mechanical starting devices for miniature engines. 3,131,682, 5–5–64, Cl. 123—179.
Garofalo, Vito M., to L. Cohen. Spring starting devices for miniature engines and the like. 3,159,154, 12–1–64, Cl. 123—179.
Garon, Eugene L.: *See*—
Carton, Peirre, Jean, and Carton. 3,120,431.
Garoogian, Mike M. Illuminated aerial top. 3,162,979, 12–29–64, Cl. 46—228.
Garr, Bernard A.: *See*—
Garr, Charles G. and B. A. 3,140,849.
Garr, Charles G. and B. A. Support for paint rollers. 3,140,-849, 7–14–64, Cl. 248—304.
Garrard, Bruce: *See*—
Gentry, Hermond G., and Garrard. 3,127,720.
Garratt, Joseph A., to Hi-G Inc. Timing circuit. 3,158,790, 11–24–64, Cl. 317—142.
Garre, Bernward, to Giulini Gebruder, G.m.b.H. Livestock feed. 3,117,867, 1–14–64, Cl. 99—2.
Garret, Richard H., and G. M. O'Keiff, to Dixell Development and Mfg. Co. Rotating cylinder guided check-valve assembly. 3,157,191, 11–17–64, Cl. 137—332.
Garrett, Clarence L. Depth indicator for fishing line. 3,159,-920, 12–8–64, Cl. 33—129.
Garrett Corp., The: *See*—
Abrams, Edward F., and Silver. 3,133,721.
Bailey, George B. 3,144,913.
Byloff, Robert C. 3,122,199.
Cain, Earl S., Jr., Bosco, Kumm, and Green. 3,147,951.
Chapman, James E. 3,156,093.
Chapman, James E., and Bevan. Re. 25,659.
Dunn, Winfred F., and Austin. 3,131,040.
Fischer, Richard A. 3,145,638.
Fischer, Richard A., and Miller. 3,117,426.
Garrett, John C. 3,133,667.
Garrett, John C. 3,147,593.
Glaser, Jerry. 3,131,003.
Greenwald, Harold A. 3,122,375.
Jensen, Raymond W. 3,126,947.
Kidwell, Robert L., and Litherland. 3,146,356.
Killackey, James J., Mueller, and Tang. 3,147,823.
Lones, Dain B., and Padgett. 3,123,754.
McCoy, Allan W., and Whitaker. 3,117,418.
Miller, Lamon E. 3,126,711.
Motsinger, Richard N. 3,122,717.
Northrop, John K., and Wilson. 3,120,830.
Null, Robert A. 3,122,318.
Paul, Carlton H., and Wood. 3,163,003.
Rowland, Charles M. 3,122,153.
Silver, Alexander. 3,162,716.
Sladek, Leonard T. 3,132,660.
Speer, Ivan E. 3,133,414.
Ward, James J. 3,157,990.
Wardleigh, Henry W. 3,127,182.
Garrett, Daniel N.: *See*—
O'Gorman, William F. 3,154,761.
Garrett, Douglas R.: *See*—
Brown, Albert W., and Garrett. 3,144,954.
Garrett, Dwight A. Log stacker attachment for tractor vehicles. 3,140,002, 7–7–64, Cl. 214—147.
Garrett, Henry U., to Udell, Inc. Systems of expansible well tools. 3,137,349, 6–16–64, Cl. 166—196.
Garrett, Jim C., to Automatic Electric Laboratories, Inc. Intercept strapping bridge. 3,138,417, 6–23–64, Cl. 339—17.
Garrett, John C., to The Garrett Corp. Safety system. 3,133,667, 5–19–64, Cl. 220—88.
Garrett, John C., to The Garrett Corp. Fuel store. 3,147,-593, 9–8–64, Cl. 60—39.46.
Garrett, Lewis C., and H. S. Woodberry, to Monsanto Co. Slub detector. 3,154,943, 11–3–64, Cl. 73—160.
Garrett, Luther W., Jr.: *See*—
Pfeiffer, Robert W., and Garrett. 3,160,499.
Garrett, Neil L. Adjustable rodeo spur. 3,153,888, 10–27–64, Cl. 54—83.
Garrett, Roy C.: *See*—
Simmons, William B., Shealy, Garrett, and Shannon. 3,147,179.
Garrett, William G., and L. S. Williams, to Commonwealth Scientific and Industrial Research Organization. Process for the production of articles of ceramic ware from magnesium oxide. 3,133,134, 5–12–64, Cl. 264—86.
Garrety, Thomas E., to Buckeye Mfg. Co. Folding nest. 3,144,000, 8–11–64, Cl. 119—45.
Garriott, Donald H., and R. L. Hill, to Morgan Packing Co., Inc. Machine for loading particulate material in containers. 3,147,780, 9–8–64, Cl. 141—88.
Garrison, Allen D., and E. Eisner, to Texaco Inc. Radiological well logging using neutron collimator to reduce the effect of well fluid on the log. 3,163,761, 12–29–64, Cl. 250—83.3.
Garrison, Clifford L., to Oliver Instrument Co. Chuck construction. 3,141,678, 7–21–64, Cl. 279—114.
Garrison, James O., to Garrison Machine Works, Inc. Chuck. 3,149,853, 9–22–64, Cl. 279—106.
Garrison Machine Works, Inc.: *See*—
Garrison, James O. 3,149,853.
Garrison, Marion A. Drill-stem core bit and wall sampler. 3,150,727, 9–29–64, Cl. 175—78.
Garrison, Robert A., and C. F. Schoelm; said Schoelm assor. to said Garrison. Fluid operated booster valve. 3,133,473, 5–19–64, Cl. 91—372.
Garrison, William E., Jr., to E. I. du Pont de Nemours and Co. Acrylonitrile production. 3,118,928, 1–21–64, Cl. 260—465.3.
Garritsen, Johan W.: *See*—
Ottenheym, Johannes H., and Garritsen. 3,152,175.
Garrod, Norman J. Gramophone record sleeve. 3,116,870, 1–7–64, Cl. 229—68.
Garrolini, Mario. 15% to L. Huntley. Collapsible surfboard. 3,137,873, 6–23–64, Cl. 9—310.
Garrou, James E., to Alba-Waldensian, Inc. Hosiery package. 3,142,379, 7–28–64, Cl. 206—78.
Garrou, Victor H., to Pilot Research Corp. Knitted elastic cotton garments and method of forming the same. 3,132,-497, 5–12–64, Cl. 66—202.

Garshick, Alfred to Boston Insulated Wire & Cable Co. Buoyant cable. 3,155,768, 11–3–64, Cl. 174—101.5.

Garson, Stanley A., and C. Smith; said Smith assor. to said Garson. Convertible trailer. 3,155,419, 11–3–64, Cl. 296—28.

Garte, Mathew. Coffee making device. 3,120,170, 2–4–64, Cl. 99—287.

Garten, Roy E., Jr., to Continental Oil Co. Method and apparatus for plotting seismic data. 3,159,808, 12–1–64, Cl. 340—15.5.

Garth, Ernest D. G., deceased, by L. C. May, and A. B. Young, co-executors. Catheters. 3,131,694, 5–5–64, Cl. 128—349.

Gartland, William A.: *See*—
Sipinen, Edsel H., and Gartland. 3,139,774.

Gärtner, Kurt, to Herunter, Schuhfabrik Koflach F., ohg. Skiing boot. 3,125,816, 3–24–64, Cl. 36—2.5.

Gartner, Stanley J.: *See*—
Erskine, George B., and Gartner. 3,141,361.

Gartner, Wilhelm, to FMC Corp. Process for grinding or pulping wood. 3,130,116, 4–21–64, Cl. 162—27.

Garton, Corbin E., and C. C. Sahlroot, to Structural Clay Products Research Foundation. Universal Mason's corner pole. 3,127,683, 4–7–64, Cl. 33—85.

Garton, Walter T.: *See*—
Kussy, Frank, Stanback, and Garton. 3,134,050.

Garty, Kenneth T., and T. B. Gibb, Jr., to Union Carbide Corp. Polymerization of oxirane monoepoxides. 3,127,371, 3–21–64, Cl. 260—47.

Garutso, Sonia G. Brassiere. 3,149,635, 9–22–64, Cl. 128—460.

Garvey, Bernard F.: *See*—
Antinori, Paul. 3,135,689.

Garvey, Francis J., to Garvey Products Corp. Spring clamp for mold parts and the like. 3,159,888, 12–8–64, Cl. 24—23.

Garvey, George A.: *See*—
Antinori, Paul. 3,135,689.

Garvey Products Corp.: *See*—
Garvey, Francis J. 3,159,888.

Garvey, Thomas G. Process for applying a protective coating to metal surfaces. 3,117,017, 1–7–64, Cl. 117—16.

Garvey, Thomas G. Apparatus for finishing metal parts. 3,148,485, 9–15–64, Cl. 51—164.

Garvin, Milton M., to American Radiator & Standard Sanitary Corp. Apparatus for shaping hollow objects. 3,151,590, 10–6–64, Cl. 113—44.

Garvin, Robert W. Powder dispenser for animals. 3,118,428, 1–21–64, Cl. 119—159.

Garwin, Richard L.: *See*—
Sunstein, David E., Wiesner, and Garwin. 3,150,374.

Garwin, Robert: *See*—
Goldberg Max, and Garwin. 3,149,523.

Garwood, James C. Geometrical instruments. 3,136,062, 6–9–64, Cl. 33—46.

Garwood, John S., to Sperry Rand Corp. Anti-friction axial end play limiting device. 3,131,568, 5–5–64, Cl. 74—5.

Garwood, William E.: *See*—
Ciapetta, Frank G., Coonradt, and Garwood. 3,144,401.
Ciapetta, Frank G., Coonradt, and Garwood. 3,150,071.
Coonradt, Harry L., and Garwood. 3,142,635.

Gary, Ira J. Leaf and pine straw mulching lawn mower attachment. 3,134,212, 5–26–64, Cl. 56—25.4.

Gary, Leo A.: *See*—
Harrison, Walter G., Gary, and Audet. 3,140,771.
Harrison, Walter G., Gary, and Audet. 3,151,731.

Gary, Wright W., Jr., L. Isenberg, and M. A. Nadler, to Aerojet-General Corp. Acoustic panel. 3,132,714, 5–12–64, Cl. 181—33.

Garzia, Aldo, to Istituto Chemioterapico Italiano S.p.A. Process for preparing 2-p-amino-benzenesulphonamido-4,6-dimethyl-pyrimidine. 3,119,818, 1–28–64, Cl. 260—239.75.

Garzia, Aldo, to Istituto Chemioterapico Italiano S.p.A. Method of preparing sulphanyl-amidopyrimidine. 3,131,182, 4–28–64, Cl. 260—239.75.

Gas Council, The: *See*—
Dent, Frederick J., and Moignard. 3,124,436.

Gas Drilling Service Co.: *See*—
Grable, Donovan B. 3,151,690.

Gas Heat Engineering Corp.: *See*—
Fetner, Campbell B., and Jarvis. 3,150,864.

Gas Processing Inc.: *See*—
Hull, Raymond J. 3,121,056.

Gas Tools, Inc.: *See*—
Stolte, Robert D. 3,157,194.

Gasche, Fred, to Autoclave Engineers, Inc. Seal. 3,144,163, 8–11–64, Cl. 220—46.

Gaskell, Thomas F., and E. H. N. Watson, to The British Petroleum Co. Ltd. Straight borehole drilling with automatic detecting and correcting means. 3,141,512, 7–21–64, Cl. 175—26.

Gaskell, Walter L., and C. L. Seltz, to King-Seeley Thermos Co. Radial arm saw. 3,123,108, 3–3–64, Cl. 143—6.

Gaskill, George M., and T. A. Prewitt, to General Motors Corp. Automotive heating systems. 3,118,603, 1–21–64, Cl. 237—8.

Gaskins, Ernest, and E. J. Buyalos, to Allied Chemical Corp. Vapor phase hydrogenation of nitrosodialkylamines. 3,133,120, 5–12–64, Cl. 260—583.

Gaskins, Jack C.: *See*—
Ball, Gaines L., and Gaskins. 3,117,737.

Gaslow, Jonathan C., D. B. Harney, and W. O. Shepherd, to Dresser Industries, Inc. Well pump. 3,143,078, 8–4–64, Cl. 103—87.

Gaspar, Bela, to Minnesota Mining and Mfg. Co. Sensitizing methine dyes and intermediates, process for preparing same and photographic element containing these dyes. 3,152,905, 10–13–64, Cl. 96—84.

Gaspar, Bela, and G. B. Linden, to Minnesota Mining and Mfg. Co. Color photographic material and process. Re. 25,586, 6–2–64, Cl. 96—53.

Gaspar, Noel J.: *See*—
Bichard, John A., Butler, and Gaspar. 3,143,511.

Gasparac, Rudolph J.: *See*—
Balmer, Hansjörg, and Gasparac. 3,140,835.
Bond, Jack B., Gasparac, and Balmer. 3,133,708.

Gasparoni, Francesco, and C. Longiave, to Montecatini, Societa Generale per l'Industria Mineraria e Chimica. Process for polymerizing isobutylene to polyisobutylene. 3,123,592, 3–3–64, Cl. 260—94.8.

Gasper, Arthur D., to Monarch Molding, Inc. Orificial diagnostic instrument. 3,132,645, 5–12–64, Cl. 128—3.

Gasper, Melvin I., to Bell Telephone Laboratories, Inc. Translator circuit. 3,142,055, 7–21–64, Cl. 340—347.

Gasquet, Rene, and G. Trichot, to Societe Industrielle Generale de Mecanique Appliquee S.I.G.M.A. Remote control installations for a plurality of gate valves with common source of operating fluid. 3,156,255, 11–10–64, Cl. 137—344.

Gass, Charles: *See*—
Laufbahn, Jennie. 3,154,866.

Gass, David L. Universal dumperette assembly. 3,121,582, 2–18–64, Cl. 293—67.

Gasser, Adolf: *See*—
Ferrari, Alfredo, and Gasser. 3,119,891.
Flad, Hermann, and Gasser. 3,136,207.

Gasser, Clive G.: *See*—
Hargrave, Kenneth R., and Gasser. 3,125,593.

Gasser, Hermann, to Pneumafil Corp. Method and means for laying out slivers and the like. 3,141,201, 7–21–64, Cl. 19—159.

Gassino, Teresio, to Ing. C. Olivetti, & C., S.p.A. Paper carriage control mechanism for accounting machines. 3,121,487, 2–18–64, Cl. 197—176.

Gassino, Teresio, to Ing. C. Olivetti & C., S.p.A. Perforated record card reading apparatus. 3,139,520, 6–30–64, Cl. 235—61.11.

Gassler, Gerhard: *See*—
Muller, Rudolf, Lessnig, and Gassler. 3,135,426.

Gassmann, Gerhard-Gunter, to International Standard Electric Corp. Relaxation oscillator employing selective and non-selective feedback. 3,141,142, 7–14–64, Cl. 331—144.

Gassmann, Gerhard-Gunter, to International Standard Electric Corp. Phase- and frequency-comparison circuit comprising two rectifying sections. 3,144,612, 8–11–64, Cl. 328—133.

Gassmann, Hans U., L. Schibler, and H. R. Zbinden, to Ciba Ltd. Process for the manufacture of stable aqueous resin emulsions of the oil-in-water type. 3,137,667, 6–16–64, Cl. 260—29.4.

Gassmann, Johannes: *See*—
Scherenberg, Hans O., and Gassmann. 3,131,945.
Scherenberg, Hans O., and Gassmann. 3,138,038.

Gassmann, Johannes, and E. S. Neher, to Daimler-Benz Aktiengesellschaft. Vane construction. 3,163,397, 12–29–64, Cl. 253—77.

Gassner, Georges, to Les Ateliers de Constructions Mecaniques C. & A. Holweg, S.A.R.L. Machine for forming a fluid-tight bag of thermo-weldable material. 3,156,164, 11–10–64, Cl. 93—22.

Gassner, Hans, and O. Lang, to Kugelfischer Georg Schafer & Co. Drive system for false twisters. 3,142,953, 8–4–64, Cl. 57—77.45.

Gassner, Saul A.: *See*—
Katchalsky, Aharon, Vofsi, and Gassner. 3,145,117.

Gasson, Edward J., and J. F. McCaughey, to The Distillers Co. Ltd. Purification of phthalonitriles. 3,135,795, 6–2–64, Cl. 260—465.

Gast Mfg. Corp.: *See*—
Bielefeld, Rolf A. 3,138,321.

Gastonguay, Joseph E., to Pepperell Mfg. Co. Apparatus for making pillow slips. 3,126,848, 3–31–64, Cl. 112—10.

Gat, John D. Apparatus for making sewing implements. 3,135,301, 6–2–64, Cl. 140—149.

Gateff, George, and E. J. Leeson, to The B. F. Goodrich Co. Post-chlorinated vinyl chloride polymer compositions having increased impact strength and improved processability. 3,145,190, 8–18–64, Cl. 260—45.5.

Gateka, Fredrick A.: *See*—
Embree, Milton L., and Gateka. 3,135,876.

Gates and Fox Co., Inc.: *See*—
Fox, Kirk H. 3,132,474.

Gates, Francis H. Device for dispensing disks and the like. 3,163,170, 12–29–64, Cl. 133—8.

Gates, Harlan R., to Westinghouse Electric Corp. Fusion mold fixture assembly. 3,155,064, 11–3–64, Cl. 113—99.

Gates, Harris G., to Gates & Sons, Inc. Combination form wall reinforcing member and tie lock. 3,141,224, 7–21–64, Cl. 25—131.

Gates, John I.: *See*—
Young, Charles W., and Gates. 3,136,150.

Gates, John W., Jr., P. E. Miller, R. R. Phillips, and G. F. Nadeau, to Eastman Kodak Co. Photographic film base subbed with acid-cooked pigskin gelatin. 3,157,506, 11–17–64, Cl. 96—87.
Gates, Myron W., Jr. Apparatus and method for splicing tape having means for locating magnetic particles on the tape. 3,162,081, 12–22–64, Cl. 83—456.
Gates Rubber Co., The: *See*—
Haines, William M., Jr., and Carter. 3,138,962.
Gates, Sheldon W., and J. M. Sanborne, to Motorola, Inc. Electronic circuit for converting polar to rectangular coordinates. 3,131,297, 4–28–64, Cl. 235—189.
Gates & Sons, Inc.: *See*—
Gates, Harris G. 3,141,224.
Gates, Thomas S., to National Broach & Machine Co. Gear finishing machine. 3,127,813, 4–7–64, Cl. 90—1.6.
Gates, William H.: *See*—
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Atanasoff, John V., and Gathers. 3,137,390.
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Gatlin, Frank B., W. S. Guerrant, Jr., E. J. Patterson, Jr., and R. E. Snider, to United States of America, Army. Wire-rope-connector passing sheave assembly. 3,132,844, 5–12–64, Cl. 254—192.
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Gatsis, John G.: *See*—
Gleim, William K. T., and Gatsis. 3,161,585.
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Gatti, Arno, to General Electric Co. Method for producing composite bodies. 3,158,473, 11–24–64, Cl. 75—206.
Gatti, Mario. Toothbrush with automatic spraying of the bristles. 3,135,989, 6–9–64, Cl. 15—578.
Gatti, Robert L., to Associated Spring Corp. Positioning device for end loop forming means for spring coiling machine. 3,150,695, 9–29–64, Cl. 140—103.
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Gatzke, Harold E. Seed planting machine. 3,130,694, 4–28–64, Cl. 111—7.
Gatzke, Harold E. Art of seed-planting. 3,149,588, 9–22–64, Cl. 111—1.
Gaubatz, Arthur W., to General Motors Corp. Fuel pumping system for gas turbines. 3,147,712, 9–8–64, Cl. 103—5.
Gaubatz, Arthur W., to General Motors Corp. Bearing design. 3,157,028, 11–17–64, Cl. 60—35.55.
Gaubatz, Arthur W., to General Motors Corp. Bearing mounting. 3,157,442, 11–17–64, Cl. 308—191.
Gaubert, Rene J. Web cutting mechanism. 3,128,660, 4–14–64, Cl. 83—155.
Gaubis, Leonard L., to United Aircraft Corp. Pitch changing mechanism. 3,153,454, 10–20–64, Cl. 170—135.24.
Gaubis, Leonard L., and F. A. Young, to United Aircraft Corp. Clamp ring. 3,159,221, 12–1–64, Cl. 170—160.58.
Gauchat, Richard H. Rotary locking device. 3,139,769, 7–7–64, Cl. 74—565.
Gaudet, Frederick J., to Psychological Training Devices Corp. Baseball pitching practice target with ball and strike indicators. 3,157,399, 11–17–64, Cl. 273—26.
Gaudet, James A., to Alexander Kusko, Inc. Motor speed control system. 3,123,757, 3–3–64, Cl. 318—327.
Gaudier-Pons, Joseph, to The Sherwin-Williams Co. Color selector. 3,120,065, 2–4–64, Cl. 35—28.3.
Gaudier-Pons, Joseph, to The Sherwin-Williams Co. Paint calculating slide rule. 3,146,942, 9–1–64, Cl. 235—70.
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Gauld, William J. Disposable coffee percolator unit. 3,119,694, 1–28–64, Cl. 99—77.1.
Gauldie, Kenneth, to Hydraulic Crushers Ltd. Thrust transmitting device. 3,160,353, 12–8–64, Cl. 241—264.
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Gault, John M., and J. R. Moross, to International Rectifier Corp. Method of making a semiconductor device. 3,128,213, 4–7–64, Cl. 156—17.
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Gaunt, James K., and P. C. Stephens, to Massey-Ferguson (Australia) Ltd. Machines for harvesting tall row crops. 3,141,281, 7–21–64, Cl. 56—16.
Gaunt, James K., J. Wood, and J. E. Douglas, to Massey-Ferguson (Australia) Ltd. Topping device for sugar cane harvester. 3,144,743, 8–18–64, Cl. 56—17.
Gaunt, Wilmer B., Jr., to Bell Telephone Laboratories, Inc. Magnetic wire memory circuits. 3,137,843, 6–16–64, Cl. 340—174.
Gaunt, William E. Method of preparing sustained release pharmaceutical tablets. 3,148,124, 9–8–64, Cl. 167—82.
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Gauntt, Wayne M., N. W. Berst, and E. F. Maisel, to The Diversey Corp. Finish remover composition. 3,147,224, 9–1–64, Cl. 252—143.
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Gausewitz, Richard L. Whistling floating roly-poly toy. 3,126,669, 3–31–64, Cl. 46—91.
Gausewitz, Richard L. Container cap and whistle. 3,129,528, 4–21–64, Cl. 46—178.
Gausewitz, Richard L. Take-apart toy in which a whistle is caused to sound by piston action during assembly and disassembly. 3,138,895, 6–30–64, Cl. 46—175.
Gausmann, Carl: *See*—
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Gaussens, Pierre P. D., and P. Cazalet. Electric supply supervision. 3,155,817, 11–3–64, Cl. 235—151.
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Rentschler, Waldemar T. 3,134,316.
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Rentschler, Waldemar T. 3,148,608.
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Gauthier, Emile: *See*—
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Gauthier, Fernand J. Device for lighting altar candles. 3,138,944, 6–30–64, Cl. 67—6.
Gauthier, George E., to General Electric Co. Handle for enclosed electric switch including a locking slide frictionally positioned. 3,141,933, 7–21–64, Cl. 200—44.
Gauthier, George E., K. W. Klein, and D. B. Powell, to General Electric Co. Circuit breaker contact and arc extinguishing means. 3,118,036, 1–14–64, Cl. 200—144.
Gauthier, George E., and M. E. Sirois, to General Electric Co. Electric circuit breaker with lock-open latch. 3,134,879, 5–26–64, Cl. 200—169.
Gauthier, Robert, and J. Pigeroulet, to Societe Industrielle Generale de Mecanique Appliquce S.I.G.M.A. Power plants comprising an internal combustion engine provided with a governor and a variable ratio transmission. 3,133,407, 5–19–64, Cl. 60—19.
Gauthier, Robert O.: *See*—
Kanzelberger, Claude G., and Gauthier. 3,137,493.
Gauthier, William D., to Ransburg Electro-Coating Corp. Electrostatic coating apparatus. 3,128,045, 4–7–64, Cl. 239—15.
Gauthier, William D., to Ransburg Electro-Coating Corp. Electrostatic spray coating method and apparatus. 3,128,201, 4–7–64, Cl. 117—93.42.
Gauthron, Maurice: *See*—
Stohr, Jacques-Andre, and Gauthron. 3,129,140.
Gauvain, Roger, to Societe Alsacienne de Constructions Mecaniques. Rectilinear combers for textile fibers. 3,125,783, 3–24–64, Cl. 19—225.
Gavern, Joseph J., and F. H. Heissenbuttel, III, to United States of America, Navy. High frequency transistor bistable multivibrator. 3,143,669, 8–4–64, Cl. 307—88.5.
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Gavin, John C., to United Aircraft Corp. Pressure ratio bleed control. 3,137,210, 6–16–64, Cl. 91—47.
Gavreau, Vladimir, A. Calaora, and M. Miane, to Centre National de la Recherche Scientifique. Automatic remote position control system. 3,118,096, 1–14–64, Cl. 318—28.
Gavreau, Vladimir, A. Calaora, and M. Miane, to Centre National de la Recherche Scientifique. System for producing variable frequency signals representing a pattern tracing. 3,159,778, 12–1–64, Cl. 318—162.
Gavurnik, Steven: *See*—
McCauley, John H., and Gavurnik. Re. 25,603.
Gawlick, Heinz, and H. K. L. Stadler, to Dynamit Nobel Aktiengesellschaft. Stud cartridge shell. 3,120,808, 2–11–64, Cl. 102—44.

Gawlitza, Franz, M. Hontzsch, and F. Schmidt, to Verband Deutscher Konsumgenossenschaften G.m.b.H. Method for the baking of bread and other bakery products with infra-red rays. 3,119,354, 1–28–64, Cl. 107—54.

Gawlitza, Franz, M. Hontzsch, and F. Schmitz, to Verband Deutscher Konsumgenossenschaften G.m.b.H. Apparatus for the baking of bread and other bakery products with infra-red rays. 3,119,355, 1–28–64, Cl. 107—57.

Gawthrop, Alan, to Neotechnic Engineering Ltd. Metering dispenser for aerosol with fluid pressure operated piston. 3,142,420, 7–28–64, Cl. 222—335.

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Gaylor, Robert B., to Outboard Marine Corp. Reclining chair frame. 3,162,481, 12–22–64, Cl. 297—65.

Gaylord Bros., Inc.: *See*—
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Grant, Chester A., and Strand. 3,151,886.
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Magers, Lloyd E. 3,149,724.
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Magers, Lloyd E. 3,149,727.

Gaylord, John A., to H. Koch & Sons. Releasable coupling. 3,125,790. 3–24–64, Cl. 24—201.

Gaylord, John A., to H. Koch & Sons. Connector device for suspending straps. 3,133,329, 5–19–64, Cl. 24—230.

Gaynes, Raymond A., to Mystik Tape, Inc. Pressure-sensitive adhesive tape for use at low and high temperatures. 3,161,533, 12–15–64, Cl. 117—68.5.

Gaynor, Edwin G. Combination push-push and momentary switch. 3,143,605, 8–4–64, Cl. 200—5.

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Gazdik, Eva. Radial cosmetic compact. 3,132,652, 5–12–64, Cl. 132—82.

Gazdik, Eva. Multi-applicator for liquid cosmetic. 3,132,653, 5–12–64. Cl. 132—85.

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Geary, Daniel C., and R. W. Gaines, to Union Carbide Corp. Valve construction for aerosol dispensers of high solids slurries. 3,121,517, 2–18–64, Cl. 222—394.

Geary, Robert J., to Plant Products Corp. Cyclic terpene N-methyl carbamates and pesticidal compositions containing same. 3,123,525, 3–3–64, Cl. 167—30.

Geary, Robert J., to Plants Products Corp. Internal treatment of animals with resin biocidal compositions. 3,162,573, 12–22–64, Cl. 167—53.

Geary, William R. C. Hypodermic injection apparatus. 3,122,138, 2–25–64, Cl. 128—215.

Geary, William R. C. Shearing apparatus for animals, especially sheep. 3,145,607, 8–25–64, Cl. 83—578.

Gebel, Irving, to Controls Co. of America. Automatic washing machine with pressure switch means. 3,133,433, 5–19–64, Cl. 68—12.

Gebel, Radames K. H., to United States of America, Air Force. Screen raster photocathode having photoemissive and secondary emissive properties. 3,137,802, 6–16–64, Cl. 313—67.

Gebele, Kurt, and F. Singer, to Compur-Werk Gesellschaft mit beschrankter Haftung & Co. Photographic camera. 3,122,083, 2–25–64, Cl. 95—64.

Geber, Eugene E. Method of casting a revolver frame. 3,132,389, 5–12–64, Cl. 22—200.

Gebert, Gregory G., to Carrier Corp. Defrost control for refrigeration systems. 3,126,712, 3–31–64, Cl. 62—81.

Gebhardt, James J., Jr.: *See*—
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Gebhardt, Jerome G., and P. M. Cameron, to DCA Food Industries, Inc. Adjustable cutter disc. 3,143,085, 8–4–64, Cl. 107—14.

Gebhardt, Willi, and K. Zerbst, to Fichtel & Sachs A.G. Planet carrier for planetary gear. 3,154,970, 11–3–64, Cl. 74—750.

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Gebrueder Steidinger, Firm: *See*—
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Gecewicz, Norbert A., to Automatic Canteen Co. of America. Currency testing apparatus. 3,127,598, 3–31–64, Cl. 340—282.

Gecewicz, Norbert A., to Automatic Canteen Co. of America. Method and apparatus for currency testing. 3,131,798, 5–5–64, Cl. 194—4.

Gechele, Giovanni: *See*—
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Gedeon, Donald I. Combined pocket ash trays and cigarette cases. 3,143,116, 8–4–64, Cl. 131—238.

Gedeon, Roy M., to Towmotor Corp. Control servomechanism. 3,156,135, 11–10–64, Cl. 74—732.

Gedgaudas, Mindaugas E., and E. T. Klippenstein, to JRW Semiconductors, Inc. Vapor condensation doping method. 3,127,285, 3–31–64, Cl. 117—230.

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Gee, Paul Y. C., and H. J. Andress, Jr., to Socony Mobil Oil Co., Inc. Succinamic metal salts in turbine oil. 3,121,057, 2–11–64, Cl. 252—33.6.

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Geer, Henry G., C. J. Greiner, and R. Zuehlsdorff, to Kimberly-Clark Corp. Apparatus for manufacture of cellulosic products. 3,116,921, 1–7–64, Cl. 270—72.

Geer, Henry G., C. J. Greiner, and R. Zuehlsdorff, to Kimberly-Clark Corp. Apparatus for manufacture of cellulosic products. 3,136,104, 6–9–64, Cl. 53—234.

Geer, Norman F., to General Electric Co. Slot wedge retainer for electrical windings. 3,139,550, 6–30–64, Cl. 310—214.

Geer, Ronald L.: *See*—
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Geer, William E., and E. R. Wilfley, to A. R. Wilfley, and Sons, Inc. Standpipe connection for centrifugal pumps. 3,131,642, 5–5–64, Cl. 103—111.

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Geerk, Jens, and L. Jenckel, to Atlas-Werke Aktiengesellschaft. Apparatus for focusing a line type ion beam on a mass spectrometer analyzer. 3,122,631, 2–25–64, Cl. 250—41.9.

Geerk, Jens F. T., to Atlas-Werke Aktiengesellschaft. Impulse spectrometers having rectilinear magnetic boundries and an entry gap located thereon. 3,149,227, 9–15–64, Cl. 250—41.9.

Geerlings, Petrus J. Feed blender. 3,131,911, 5–5–64, Cl. 259—21.

Geerts, Marcellus J., W. J. Sandner, and W. L. Fierce, to The Pure Oil Co. Production and separation of cyanogen. 3,135,582, 6–2–64, Cl. 23—151.

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Geffcken, Walter, to Schott, Jenaer Glaswerk, & Gen. Method of preparing a multi-layer reflection reducing coating. 3,147,132, 9–1–64, Cl. 117—33.3.

Geffen, Theodore M., H. Grekel, and K. L. Hujsak, to Pan American Petroleum Corp. Underground reverse combustion process. 3,152,638, 10–13–64, Cl. 166—2.

Gegenheimer, Harold W., and A. N. Stad, to Baldwin-Gegenheimer Corp. Vertical ink fountain agitator. 3,128,699, 4–14–64, Cl. 101—364.

Gehardt, Carl W., to United States of America, Air Force. Apparatus for measuring corrosion rates. 3,150,522, 9–29–64, Cl. 73—86.

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Gehl, William B., to American Cyanamid Co. Peanut flocontrol sprayer. 3,138,482, 6–23–64, Cl. 118—2.

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Gehlen, Herman W., H. Eberhard, R. Pawlus, and H. Brockmann, to H. W. Gehlen, K.G. Eisenwerke Kaiserslautern, firma. Amphibious vehicle. 3,152,569, 10–13–64, Cl. 114—43.5.
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Gehman, Roland P., to Sperry Rand Corp. Hay rake. 3,157,979, 11–24–64, Cl. 56—377.
Gehre, Hans. Fluid meter construction. 3,144,768, 8–18–64, Cl. 73—231.
Gehrie, Charles S., to Presto Lock Co. Latching and locking means for luggage cases and like receptacles. 3,125,874, 3–24–64, Cl. 70—75.
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Geiersberger, Karl, H. Nees, and F. Vorster, to Chemische Fabrik Kalk G.m.b.H. Process for the production of complex fertilizers. 3,132,935, 5–12–64, Cl. 71—39.
Geiger, Darrell L., to Cleveland Institute of Radio Electronics. Slide rule. 3,120,342, 2–4–64, Cl. 235—70.
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Geiger, Friedrich, to Daimler-Benz Aktiengesellschaft. Ventilating system for vehicles. 3,136,239, 6–9–64, Cl. 98—2.
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Bochan, John, and Morey. 3,146,196.
Bondley, Ralph J. 3,138,228.
Bondley, Ralph J. 3,156,881.
Bondley, Ralph J. 3,156,882.
Boot, Reginald J. 3,153,007.
Boot, Reginald J., and Torkelson. 3,132,167.
Boothe, Willis A. 3,155,825.
Bovenkerk, Harold P., Wentor, and Savage. 3,136,615.
Boyd, Malcolm R. 3,121,822.
Boyle, Clarence J., and Newhouse. 3,139,337.
Boyles, Robert L. 3,118,027.
Boyles, Robert L. 3,138,674.
Brammerlo, Allen A., and Stout. 3,153,183.
Brandt, Thomas F., Jr. 3,153,713.
Bray, Thomas E. 3,132,325.
Bray, Thomas E., and Stewart. 3,163,763.
Breaulf, Homer H. 3,145,085.
Bremer, John W. 3,158,502.
Brewer, Stuart D., and De Sieno. 3,135,713.

General Electric Co.: *See*—Continued
Brickett, Sherman P., and Heter. 3,149,504.
Brickett, Sherman P., and Hoffman. 3,141,313.
Britten, Harold H., and Gayek. 3,161,818.
Brody, Herbert M. 3,153,913.
Brody, Herbert M. 3,162,021.
Brouillette, Joseph W., Jr., and Johnson. 3,159,743.
Brown, Bruce M. 3,147,779.
Brown, Clarence H. 3,130,902.
Brown, Dale H. 3,140,588.
Brown, John F., Jr. 3,145,225.
Bruch, Charles A. 3,155,534.
Brunner, Mathias J. 3,159,012.
Budlane, Stanley J. 3,155,144.
Bullock, Earl R. 3,158,761.
Burch, James R. 3,160,280.
Burke, Norman E. 3,123,274.
Caldwell, Andrew H. 3,120,412.
Caltagirone, Saverio. 3,131,372.
Cannon, Peter. 3,134,739.
Carbary, Richard J. 3,137,900.
Cardwell, John G. 3,148,296.
Cardwell, John G., and Arnold. 3,160,776.
Carlson, Harold A. 3,151,250.
Carlson, Harold G. 3,161,817.
Carlson, Jerome A. 3,150,471.
Carson, William N., Jr. 3,132,054.
Caruso, William J., Hoffman, and Neal. 3,149,502.
Casey, Edward J., and Sofianek. 3,155,879.
Casey, Robert T. 3,155,882.
Cech, Robert E. 3,163,528.
Chace, Richard L. 3,122,615.
Chafee, Glenn R., Jr. 3,116,983.
Chang, Han, and Stewart. 3,134,876.
Chen, Franklin P. H. 3,117,003.
Chisholm, Roy D., and Cleary. 3,132,640.
Chow, Woo F. 3,149,241.
Chu, William W. L., and Wagner. 3,117,896.
Clark, Donald E., and Simonson. 3,116,898.
Clark, Oliver R. 3,163,370.
Clark, Robert C. 3,134,961.
Clark, Stephen C., Jr., and Jones. 3,123,657.
Claussen, Walter F. 3,147,433.
Clothier, Norman G., McKendree, and Picozzi. 3,156,840.
Cobine, James D., and Harris. 3,149,247.
Coggeshall, Almy D. 3,135,888.
Coggeshall, Almy D., Whittlesey, and Darby. 3,158,770.
Collins, Clifford B., and Zubler. 3,132,278.
Collins, Lawrence R., and Faidy. 3,142,976.
Cook, Edward J. 3,134,950.
Cook, Leonard W., and Schauseil. 3,161,746.
Cook, Newell C. Re. 25,630.
Coolidge, Arthur W., Jr. 3,118,078.
Coolidge, Arthur W., Jr., and Slivka. 3,145,465.
Cooper, Benjamin, and Lane. 3,152,306.
Cooper, Glenn D. 3,137,720.
Cooper, Glenn D., and Finkbeiner. 3,161,689.
Cooper, Glenn D., and Gilbert. 3,125,554.
Cooper, Glenn D., and Prober. 3,143,524.
Coppola, Patrick P. 3,155,864.
Corey, Philip D., Plette, and Wellford. 3,124,740.
Cornell, Richard H. 3,156,291.
Coutant, Ralph E., and Clark. 3,133,452.
Cressman, George W., and Demchock. 3,123,993.
Crain, Norman R. 3,163,824.
Crowther, Russell L. 3,147,191.
Csicsatka, Antal. 3,122,610.
Cunningham, David R., Somers, Stone, and Hartman. 3,141,394.
Cushing, Donald S. 3,134,385.
Cutler, Clarence M., and Dobras. 3,152,277.
Cutler, Leon H. 3,119,909.
Cutler, Leon H. 3,138,177.
Cutler, Leon H. 3,140,727.
Cuzzone, Raymond, and Harvey. 3,163,208.
Dahlgren, John A. 3,163,025.
Dahn, Raymond C., Jr., Langan, and Meyer. 3,155,750.
Daly, Daniel F., and Tillson. 3,141,947.
D'Antonio, Nicholas F. 3,131,019.
Dantowitz, Philip. 3,119,308.
Darrow, Kenneth A., and Hull. 3,150,943.
Dart, Charles R. 3,136,183.
Dash, William C. 3,135,585.
Davidson, William E. 3,156,054.
Davis, Donald H., and O'Bryon. 3,141,476.
Davis, William C. 3,118,032.
Dawley, Daniel B. 3,129,837.
Dawley, Daniel B. 3,156,019.
Day, Harold R., Jr. 3,154,369.
Day, Harold R., Jr., Boldebuck, and Eustance. 3,136,441.
Dazley, Frederick C., Kimball, and Vermeulen. 3,138,418.
De Fries, Paul J. 3,152,263.
De Fries, Paul J. 3,155,833.
De Lai, Anthony J. 3,141,746.
De Monterey, Francis G. A. 3,153,006.
De Mott, Alfred E. 3,152,242.
Denison, James W., Jr. 3,123,470.
Denny, Dann W. 3,156,123.
Derbyshire, Charles E., and Andersen. 3,138,774.
Devol, James C., and Greene. 3,148,299.
De Wolf, George L., and Williams. 3,161,813.

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Dickey, Frank R., Jr. 3,127,607.
Dickey, Frank R., Jr. 3,147,477.
Dickey, Frank R., Jr. 3,157,876.
Diefendorf, Russell J. 3,138,434.
Diefendorf, Russell J. 3,138,435.
Diefendorf, Russell J., and Williams. 3,120,450.
Dillon, Eugene F. 3,126,470.
Dillow, Noel E., Albright, and Bianco. 3,137,829.
Doersam, Henry F. 3,122,769.
Dole, Marshall H. 3,138,412.
Dome, Robert B. 3,159,802.
Dome, Robert B. 3,163,714.
Dotson, James W. 3,133,109.
Douglas, David L., and Cairns. 3,134,696.
Downie, John W. 3,140,489.
Dresser, Kenneth J. 3,160,025.
Dunham, Stuart B. 3,140,598.
Durst, Paul T., and Fuhrman. 3,154,051.
Dvorin, Martin. 3,160,022.
Edgar, Robert F. 3,133,213.
Edson, William A. 3,128,433.
Edwards, George J. 3,131,986.
Eggenberger, Markus A. 3,147,821.
Egle, John E. 3,124,145.
Ehlert, Ralph C. 3,150,264.
Eichenauer, Carl J., Jr., and Storm. 3,119,069.
Eigelbach, Ray C. 3,125,365.
Eisenlohr, Alfred. 3,147,087.
Eldredge, Arnold L. 3,127,608.
Eldredge, Kenneth R. 3,157,748.
Ellis, Charles R., and McClure. 3,155,918.
Ellis, Marvin G., and Nowosielski. 3,150,659.
Eppert, Franklin P. 3,141,112.
Erickson, Clifford E. 3,123,939.
Erickson, Clifford E., and Stone. 3,155,462.
Ericson, Eric A. 3,134,877.
Erwin, John R. 3,146,590.
Essenburg, Jack L. 3,154,705.
Esten, Harold, and Jamison. 3,150,901.
Falk, Richard B. 3,156,650.
Falk, Richard B., and Hooper. 3,149,408.
Farrell, William M. 3,137,478.
Farrell, William M. 3,146,992.
Faus, Harold T. 3,161,056.
Feldmann, Herman F. and Sutton. 3,126,469.
Fiedler, Howard C. 3,147,158.
Fink, Robert R., and Zirkle. 3,153,918.
Fisher, Lawrence E. 3,125,628.
Fisher, Neil A. 3,151,282.
Flom, Donald G. 3,161,449.
Foldes, Stephen, and Wesolowski. 3,153,163.
Foote, Lawrence R. 3,132,294.
Foote, Lawrence R. 3,137,810.
Fortier, Arthur H. 3,135,939.
Foulds, John P. 3,131,871.
Fox, Daniel W. 3,144,432.
Fox, Daniel W. 3,148,172.
Fox, Daniel W. 3,153,008.
Fox, Robert S. 3,121,184.
Francis, Wallace R. 3,120,417.
Francis, Wallace R. 3,141,054.
Franklin, Burton P. 3,123,288.
Freeman, Arthur H. 3,152,398.
Freeman, Arthur H. 3,153,852.
Freeman, Arthur H., and Hicks. 3,121,285.
French, Allen D. 3,136,992.
Frischmann, Peter G., and Walter. 3,162,554
Furbee, Avery D., and Bernstein. 3,150,261.
Gabriel, Vincent T., and Manteuffel. 3,122,700.
Gambino, John R. 3,131,082.
Gardiner, Paul C., and Jensen. 3,119,040.
Gatti, Arno. 3,147,085.
Gatti, Arno. 3,158,473.
Gauthier, George E. 3,141,933.
Gauthier, George E., Klein, and Powell. 3,118,036.
Gauthier, George E., and Sirois. 3,134,879.
Geer, Norman F. 3,139,550.
Gelbard, Robert B. 3,136,001.
Genuit, Luther L. 3,119,058.
Genuit, Luther L. 3,120,633.
Genuit, Luther L. 3,120,634.
Gerlaugh, Howard E. 3,117,748.
Gerry, Otto F. 3,120,056.
Gettino, Nicholas A., and Murphy. 3,145,357.
Gibbs, Edward E., and Willyoung. 3,131,321.
Gibson, Van R., Jr. 3,147,341.
Giger, Walter, Jr. 3,146,379.
Giles, Walter B. 3,156,207.
Glenn, William E., Jr. 3,118,969.
Glenn, William E., Jr. 3,147,062.
Glenn, William E., Jr., and Henkes. 3,116,962.
Glenn, William E., Jr., and Watters. 3,134,852.
Gloersen, Per, Gorowitz, and Moses. 3,151,259.
Goetz, Ernest F. 3,138,673.
Goldberg, Eugene P. 3,157,622.
Goldberg, Eugene P. 3,161,615.
Good, William E., and True. 3,155,871.
Goodman, Thomas P. 3,158 038.
Gordon, Walter H., Jr. 3,161,806.
Graff, William A. 3,148,300.
Gravel, Jean-Paul J. 3,139,579.

General Electric Co.: *See*—Continued
Gray, Floyd L. 3,160,143.
Gray, Willard F. M. 3,132,205.
Greenwood, Allan N., and Lee. 3,133,209.
Greiner, Alfred, and Holle. 3,116,992.
Grenoble, Herbert E. 3,147,157.
Grimshaw, Charles. 3,123,697.
Grzeczkowski, Vincent A. 3,145,282.
Gulick, William K. 3,146,585.
Gustafson, Milton J., Jr. 3,154,311.
Guth, Lauren W. 3,124,251.
Hager, James A. 3,143,246.
Haines, Frederick J. 3,134,927.
Halpin, George N. 3,151,255.
Ham, Donald M. 3,118,421.
Hammerly, Herman J. 3,135,895.
Hammerly, Herman J. 3,142,002.
Hampton, Thomas L. 3,117,826.
Hardy, Albert L. 3,163,371.
Harle, Harold P. 3,116,615.
Harle, Harold P. 3,122,795.
Harle, Harold P., and Harrison. 3,151,472.
Harpley, Theodore R. 3,130,347.
Harpley, Theodore R. 3,151,289.
Harpley, Theodore R. 3,159,766.
Harrington, Dean B. 3,152,273.
Harris, Lawrence A. 3,119,041.
Harris, Samuel C., Jr., and Langley. 3,128,070.
Hausz, Walter, and Dickey. 3,121,868.
Haviland, Robert P. 3,151,295.
Haviland, Robert P. 3,162,764.
Havn, Svend E., and Freestone. 3,155,872.
Havn, Svend E., and Namordi. 3,118,084.
Hay, Allan S. 3,139,452.
Hays, Carl V. 3,142,149.
Henning, Eugene W. 3,145,346.
Herman, Luther R., and Jones. 3,128,443.
Hermann, Gerald P. 3,132,222.
Hermann, Gerald P. 3,150,243.
Herrick, Carlyle S. 3,148,083.
Herrick, Carlyle S. 3,154,432.
Herzog, Josef. 3,149,470.
Herzog, Josef, and Kovacik. 3,120,374.
Hesler, Joseph P., and Peil. 3,144,638.
Hess, Philip N. 3,156,879.
Hewett, Major W. 3,139,539.
Hodges, Merwyn E. 3,154,737.
Hodges, Ralph D., Antalis, and Wood. 3,161,843.
Hoffman, Herbert N. 3,141,384.
Hoffman, Herbert N. 3,148,282.
Hoffman, Herbert N. 3,155,395.
Hoffmeyer, William R., and Johnson. 3,157,805.
Hogue, Marcus P. 3,142,448.
Hogue, Marcus P. 3,163,369.
Holcomb, Richard H. 3,160,777.
Holdstock, Norman G. 3,117,149.
Holl, Peter M. 3,116,604.
Holl, Peter M. 3,133,693.
Hollenden, William J., and Welsh. 3,155,770.
Holub, Fred F. 3,161,541.
Holub, Fred F., and Kantor. 3,160,603.
Holub, Fred F., and Kantor. 3,160,604.
Hopper, William H., Jr., Norris, and Harrison. 3,156,828.
Hoppin, George S., III, and Young. 3,155,491.
Horecky, Stanley V. 3,122,426.
Horecky, Stanley V. 3,132,004.
Horn, Fordyce H. 3,140,373.
Houston, John M. 3,138,725.
Hovhanesian, Garabed, and Fisk. 3,152,272.
Howard, Charles F., Schultz, and Rhudy. 3,151,262.
Howell, Edward K. 3,158,781.
Hubner, Alvah G. 3,138,137.
Hummel, Wiley M. 3,143,619.
Hurko, Bohdan. 3,121,158.
Hurko, Bohdan. 3,151,608.
Hurt, William C., Jr., and Radke. 3,137,832.
Hurtle, Ralph L. 3,117,203.
Hurtle, Ralph L. 3,129,305.
Hurtle, Ralph L. 3,158,786.
Hurwitz, Henry, Jr. 3,149,251.
Hutt, Philip. 3,127,482.
Hutt, Philip. 3,163,739.
Imhoff, Donald H. 3,145,149.
Ishler, William E., and Apple. 3,124,539.
Jacobs, Lewis W. 3,131,997.
Jacobs, Lewis W., and Sabatella. 3,160,791.
Jacobson, Chester F. 3,133,168.
Jacobs, Lewis W., and Sabatella. 3,128,142.
Jarvinen, Willard B. 3,157,836.
Jayne, Frank J., and Foerst. 3,136,914.
Jellies, David A. 3,126,024.
Jellies, David A. 3,130,737.
Jencks, Charles L. 3,134,878.
Jencks, Charles L., and Murphy. 3,155,795.
Jencks, Charles L., and Murphy. 3,158,717.
Jenkins, Thomas E. 3,134,386.
Jenkins, Thomas E., and Kauffman. 3,124,146.
Johnson, Donald W., and Thompson. 3,161,365.
Johnson, Joseph F. 3,155,445.
Johnson, Peter D. 3,130,341.
Johnson, Robert H. 3,134,229.
Johnston, Donald L. 3,154,630.

General Electric Co.: *See*—Continued
Jones, Albert C., Lingel, and Troup. 3,122,047.
Jones, Cary D. 3,160,204.
Jones, Claude K., and Martin. 3,141,989.
Jones, Howard T. 3,160,837.
Jones, John E. 3,120,603.
Jones, Mertis E., and Miner. 3,142,785.
Jordan, Thomas J., and Plant. 3,133,285.
Joseph, Raymond S., and Kemeny. 3,149,607.
Joseph, Raymond S., Korol, and Wallis. 3,142,408.
Kaeding, Hugo C. 3,150,307.
Kalla, Ribhi M. 3,131,687.
Kamide, Harris P. 3,117,212.
Kane, Hugh N., and Pusch. 3,142,187.
Kantor, Simon W., and Holub. 3,160,602.
Kantor, Simon W., and Holub. 3,160,605.
Katchman, Arthur. 3,118,787.
Katchman, Arthur. 3,142,585.
Katchman, Arthur. 3,162,614.
Katchman, Arthur, and MacKenzie. 3,118,786.
Katz, LeRoy. 3,116,819.
Kauffman, Melvin R. 3,141,713.
Kauffman, Melvin R. 3,146,045.
Kaufman, Murray, and Wilde. 3,155,501.
Kautz, William H. 3,119,929.
Keeling, Kermit B., Sr., and Lewis. 3,151,612.
Keen, William A., Jr., Damasca, and Rabins. 3,142,029.
Kelley, Fred W., Jr., Lezan, and Rettig. 3,158,799.
Kemeny, Julius, Parsons, Cady, and Jones. 3,155,893.
Kendt, Norman L. 3,125,249.
Kendt, Norman L., and Sholtes. 3,150,904.
Kendziorski, Casimir, Jr., and Hora. 3,157,787.
Kennedy, Edwin C. 3,163,016.
Kernander, Warren N., Van Bennekom, and Camp. 3,123,293.
Kettler, Clarence J. 3,123,763.
Kiesel, George W., and Wegh. 3,143,627.
Kiesel, George W., and Wegh. 3,155,805.
Kim, Chang S. 3,131,353.
Kimball, Donald G. 3,120,416.
Kimball, Donald G., and Vermeulen. 3,134,632.
King, Ralph E. 3,116,614.
Kirchmayer, Leon K. 3,117,221.
Kirchmayer, Leon K. 3,124,699.
Klebe, Johann F. 3,125,636.
Klebe, Johann F. 3,125,637.
Klein, Keith W., and Powell. 3,155,803.
Klein, Keith W., and Powell. 3,162,739.
Klein, Keith W., and Powell. 3,162,740.
Klepfer, Harold H., and Sanderson. 3,141,227.
Klepfer, Harold H., and Snyder. 3,141,830.
Knab, Glenn W. 3,152,399.
Koert, Alvah C. 3,155,859.
Koff, Bernard L. 3,154,243.
Kohn, Julius A. 3,143,897.
Kolbe, Carl L., and McKechnie. 3,118,795.
Konikoff, John J. 3,127,243.
Koval, Leonide P. 3,158,716.
Koza, Stanley H. 3,156,885.
Krupp, Anton M., and Divoky. 3,128,141.
Krzewina, Thomas. 3,124,157.
Kuebrich, Herbert P., and Petro. 3,147,547.
Kuerzel, Robert E. 3,128,233.
Kwiatek, Jack. 3,134,753.
Lafferty, James M., Cobine, and Vanderslice. 3,149,249.
La Force, Ronald P., and Clemm. 3,145,119.
Lafuze, David L. 3,139,576.
Lafuze, David L. 3,151,294.
Lake, William H. 3,117,248.
Lambrecht, Jurgen H. 3,143,401.
Landolt, Paul H. 3,144,371.
Langdon, Robert S. 3,145,959.
Langdon, Robert S. 3,145,960.
Lapp, Marshall. 3,149,252.
La Rocca, Aldo V. 3,149,460.
Larsson, Per E. A. 3,158,168.
Laskowski, Edward. 3,155,136.
Laug, Ernst P. 3,132,230.
Lee, Thomas H. 3,163,734.
Leeds, Laurance M. 3,123,775.
Le Grand, Donald G., and Flom. 3,161,704.
Leis, Robert F. 3,123,283.
Leonard, Cullman K. 3,154,690.
Levesque, Robert L., and Babcock. 3,142,155.
Lipstein, Norman J. 3,131,688.
Livingston, Orrin W. 3,119,054.
Loch, Joseph F., De Mott, and Smigo. 3,119,000.
Loewenthal, Henry J., and Magester. 3,129,841.
Loncrini, Donald F. 3,140,299.
Lootens, William F., and Flowers. 3,160,798.
Love, Robert W. 3,160,339.
Low, Frank D. 3,140,595.
Luborsky, Fred E., and Morelock. 3,132,022.
Luebke, Emmeth A. 3,149,250.
Luebke, Emmeth A. 3,149,253.
MacCracken, Douglas C., Jr., and Mellon. 3,151,260.
MacIntosh, Joseph R. 3,163,187.
Mackinnon, John. 3,132,168.
Magester, Earl H. 3,132,382.
Maize, Donald G. 3,143,274.
Mangan, John L., and Hiniker. 3,150,487.
Mann, Friedrich H., and Miller. 3,155,910.

General Electric Co.: *See*—Continued
Manteuffel, Erich W. Re. 25,574.
Manteuffel, Erich W. 3,129,381.
Manteuffel, Erich W. 3,159,777.
Marderness, Howard P. 3,156,253.
Marrs, Roscoe E. 3,132,293.
Martens, Stanton C., and Rothenberg. 3,148,169.
Martin, Cecil. 3,156,008.
Martinek, Frank. 3,129,351.
Martyny, William C. 3,143,435.
Mattson, Rodney A. 3,126,479.
May, Howard F. 3,147,742.
McCarty, Lewis V. 3,116,623.
McCreight, Louis R. 3,138,009.
McFerran, James B. 3,162,775.
McGee, Archie A. 3,144,589.
McGee, Archie A., Jr. 3,140,422.
McGinn, John H. 3,146,371.
McLean, Howard J. 3,135,224.
McLean, James O. 3,121,548.
McLean, James O., and Peslak. 3,117,767.
McMillan, Stephen L. 3,132,005.
McMillan, Stephen L. 3,142,165.
McMillan, Stephen L. 3,145,553.
McMillan, Stephen L., and Stelli. 3,145,552.
McQuade, James M. 3,132,056.
Meacham, John W. 3,124,642.
Meiklejohn, William H. 3,141,967.
Meyer, Burtis W. 3,147,372.
Meyer, Burtis W., and Miller. 3,147,343.
Meyer, Norbert J., Sr. 3,132,840.
Michaelson, William. 3,147,397.
Michl, Edward F. 3,135,643.
Milford, Richard E. 3,148,336.
Miller, Richard H. 3,163,735.
Miller, William J. 3,142,800.
Miller, William R. 3,133,237.
Millikan, Roger C. 3,136,126.
Mitick, Stanley R., Jr. 3,121,151.
Mitick, Stanley R., Jr. 3,155,799.
Mitoff, Stephen P., and Pry. 3,138,686.
Mobley, Paul R. 3,155,499.
Mollenberg, Leroy. 3,135,882.
Moody, Leroy S. 3,155,683.
Moore, Fred W., and Lawson. 3,145,881.
Moore, Fred W., and Pressley. 3,116,910.
More, Philip J. 3,161,757.
More, Philip J., and Walz. 3,131,684.
Morey, Everett D. 3,159,465.
Moreland, Jim N., and Nybo. 3,156,361.
Morgan, Raymond E. 3,128,396.
Morgan, Raymond E. 3,138,722.
Morley, David H., and Schultz. 3,128,381.
Morong, William H., Jr., Seamman, and Clarke. 3,150,-317.
Moschetti, Donald J., Roecks, and York. 3,116,626.
Mosher, Wesson G., and Kazura. 3,137,190.
Mount, Eldridge M., Jr. 3,130,353.
Moyer, Wayne B. 3,141,651.
Mullaney, George J. 3,125,076.
Mullings, Donald M. 3,159,108.
Murphy, Frank H. 3,134,880.
Murray, James G., Holub, and Smith. 3,125,634.
Murray, James G., Holub, and Smith. 3,125,635.
Murray, Sylvester F., and Peterson. 3,158,495.
Myers, Richard T., and Metzler. 3,140,445.
Myers, Richard T., and Spangler. 3,140,446.
Nadeau, Herman A. 3,158,701.
Nagamatsu, Henry T., Schmid, and Sheer. 3,161,789.
Nash, Dudley O., and Plungis. 3,156,094.
Nash, Dudley O., and Selmeier. 3,154,920.
Nelson, Ivan W. A. 3,132,306.
Nerad, Anthony J. 3,150,944.
Nerad, Anthony J., and Sheldon. 3,139,724.
Neugebauer, Franz J. 3,135,322.
Neumann, Clarence A., Helberg, and Bedford. 3,160,842.
Newberry, Sterling P., and Norton. 3,120,991.
Newhouse, Vernon L., Bremer, and Edward. 3,123,720
Ney, Robert J. 3,155,865.
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Carpenter, Keith H. 3,137,135.
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Massoll, Stanley R. 3,121,902.
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McKenna, Howard W. Re. 25,658.
McMurray, Eugene C. 3,132,711.
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Meads, Marshall M. 3,130,682.
Meyer, Engelbert A. 3,130,822.
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Flower, Robert A. 3,134,103.
Fogarty, Laurence E. 3,153,143.
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Germain, Lloyd M., to Electro-Mechanical Research, Inc. Amplitude density probability computer. 3,140,477, 7–7–64, Cl. 340—345.

Germain, Louis, to Progil, S.A. Process for the production of strong solutions of alkali metal salts of increased purity. 3,129,057, 4–14–64, Cl. 23—107.

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Gettinger, Lillian L. Bonnet-type head covering. 3,144,662, 8–18–64, Cl. 2—204.

Gettino, Nicholas A., and A. F. Murphy, to General Electric Co. Expansion chamber for orienting liquid level. 3,145,357, 8–18–64, Cl. 336—94.

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Gilmore, William J.: *See*—
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Gilmore, William J., to American Chain & Cable Co., Inc. Cable locking device. 3,147,527, 9–8–64, Cl. 24—126.

Gilmour, Donald K.: *See*—
Shellard, Arthur D., and Gilmour. 3,151,083.

Gilpin, William V. Automatic excess fluid flow valve. 3,138,-174, 6–23–64, Cl. 137—498.

Gilreath, Lafayette E. Hydraulic motor. 3,120,154, 2–4–64, Cl. 91—135.

Gilreath, Lafayette E. Hydraulic slip setting apparatus. 3,122,811, 3–3–64, Cl. 24—263.

Gilreath, Lafayette E. Hydraulic gear apparatus. 3,123,-012, 3–3–64, Cl. 103—126.

Gilsdorf, Robert T., to E. I. du Pont de Nemours and Co. Preparation of organic titanates. 3,119,852, 1–28–64, Cl. 260—429.5.

Gilson, Albert R., and L. K. Parker. Apparatus for determining the melting point of a material. 3,153,337, 10–20–64, Cl. 73—17.

Gilson Bros. Co.: *See*—
Hotz, Kenneth A. 3,132,539.
Versch, Roman H. 3,161,301.
Versch, Roman H., and Donner. 3,154,200.

Gilson, Norman F. Wheel blocking device. 3,119,466, 1–28–64, Cl. 188—32.

Gilson, Paul R., to Burroughs Corp. Tape transport apparatus. 3,124,317, 3–10–64, Cl. 242—55.12.

Gilson, Paul R., to Beckman Instruments, Inc. Serial-to-parallel converter. 3,139,614, 6–30–64, Cl. 340—347.

Gilson, Paul R., to Burroughs Corp. Magnetic tape storage system for digital computers wherein an indication of the number of bits in a message is stored with the message. 3,141,151, 7–14–64, Cl. 340—172.5.

Gimber, George A.: *See*—
Cotilla, Edward J., and Gimber. 3,140,886.

Gimera, Ralph J.: *See*—
Weisner, Edward F., Woolsey, and Gimera. 3,152,049.

Gin, Winston: *See*—
Glennan, Thomas K. 3,122,098.

Ginat, Jonathan J. Chair. 3,142,514, 7–28–64, Cl. 297—449.

Ginaven, Marvin E.: *See*—
Dill, Richard R., and Ginaven. 3,118,624.

Gindi, Abraham M., to International Business Machines Corp. Monostable multivibrator with early reset if desired. 3,145,308, 8–18–64, Cl. 307—88.5.

Gindoff, Sol, to Pioneer Magnetic Inc. Wire stripping tool having heated filaments which open when jaws are closed. 3,139,777, 7–7–64, Cl. 81—9.5.

Gindroz, Frank H., Jr., to Electronic Specialty Co. Quick reversing mechanism. 3,139,761, 7–7–64, Cl. 74—68.

Gingrande, Arthur, and G. J. Marotta, to Western Electric Co., Inc. Mold for casting electrical component mounting panels. 3,120,029, 2–4–64, Cl. 18—47.

Gingrande, Arthur, and G. J. Marotta, to Western Electric Co., Inc. Method of casting electrical component mounting panels. 3,120,573, 2–4–64, Cl. 264—277.

Gingras, Marcel, to Dominion Corset Co., Ltd. Foundation garment. 3,137,300, 6–16–64, Cl. 128—524.

Gingras, Marcel, to Dominion Corset Co., Ltd. Foundation garments. 3,137,301, 6–16–64, Cl. 128—528.

Gingras, Marcel, to Dominion Corset Co. Ltd. Brassieres. 3,140,717, 7–14–64, Cl. 128—503.

Gingras, William P.: *See*—
Jonker, Frederick, and Gingras. 3,156,137.

Ginsburg, Henry. Dispensing container for liquids. 3,146,-806, 9–1–64, Cl. 141—110.

Ginsburg, Herbert: *See*—
Opotow, Harold, and Ginsburg. 3,140,958.

Ginsburgh, Irwin, to Standard Oil Co. Method for sealing leaks and leak sealant. 3,144,049, 8–11–64, Cl. 138—97.

Ginther, Hans. Apparatus for servicing compressed air tools. 3,121,472, 2–18–64, Cl. 184—1.

Gintner, Walter B., to North American Aviation, Inc. Glove ventilating system. 3,121,877, 2–25–64, Cl. 2—159.

Gionet, Edmond R., to General Motors Corp. Hinge and hold open. 3,124,830, 3–17–64, Cl. 16—140.

Gionet, Edmond R., to General Motors Corp. Closure hinge. 3,153,260, 10–20–64, Cl. 16—142.

Giordani, Carlo. Accordion type folding closure. 3,126,943, 3–31–64, Cl. 160—84.
Giordano, Ames F., to International Telephone and Telegraph Corp. Color pattern display system. 3,117,488, 1–14–64, Cl. 88—24.
Giordano, Salvatore, to United States of America, Atomic Energy Commission. Non-reflective liquid termination of a coaxial cable. 3,121,204, 2–11–64. Cl. 333—22.
Giorgini, Norman L.: *See*—
Kotz, Arthur R., Appeldorn, Grieshaber, Peterson, and Giorgini. 3,163,755.
Giovagnoli, Paul S. Baseball pitching apparatus. 3,136,308, 6–9–64, Cl. 124—7.
Giovagnoli, Paul S. Pump. 3,156,189, 11–10–64, Cl. 103—57.
Giovannetti, Angelo, Jr., R. M. Himmelright, K. A. Meyer, and H. Nitta, to United States of America, National Aeronautics and Space Administration. High-temperature, high-pressure spherical segment valve. 3,158,172, 11–24–64, Cl. 137—340.
Giovannetti, Fiorello. Sheet metal expansion anchor adapted to clamp the screw upon insertion thereof. 3,148,579, 9–15–64, Cl. 85—834.
Gipe, Charles W.: *See*—
Paynter, Allison L., and Gipe. 3,128,732.
Giraitis, Albert P.: *See*—
Johnston, James D., Shapiro, and Giraitis. 3,133,104.
Giraitis, Albert P., H. Shapiro, and J. D. Johnston, to Ethyl Corp. Stable lead alkyl compositions and a method for preparing the same. 3,133,105, 5–12–64, Cl. 260—437.
Giraitis, Albert P., P. Kobetz, and H. Shapiro, to Ethyl Corp. Organo-lead compounds of ethylene glycols. 3,147,293, 9–1–64, Cl. 260—437.
Giraitis, Albert P., V. Norman, and T. P. Whaley, to Ethyl Corp. Preparation of supported nickel catalysts. 3,162,-606, 12–22–64, Cl. 252—466.
Giraldi, Piernicola, D. Artini, G. Nannini, and W. Logemann, to Carlo Erba S.p.A. Acylated s-triazines and process for their preparation. 3,118,888, 1–21–64, Cl. 260—249.9.
Girand, James: *See*—
Mixer, Richard A., and Girand. 3,133,877.
Girard, Christian F., to Canadian International Paper Co. Insulating wall board sizing. 3,138,480, 6–23–64, Cl. 117—65.2.
Girard, Jacques G. C.: *See*—
Quesnel, Georges, Girard, Thiot, Coates, and Brown. 3,121,731.
Girard, Jacques G. C., A. Thiot, and G. Quesnel, to La Bakelite, and Omnium de Produits Chimiques pour l'Industrie et l'Agriculture "OPCIA." Method of preparation and blends thereof with phenolaldehyde resins. 3,121,697, 2–18–64, Cl. 260—2.
Girard, Peter F.: *See*—
Ryan, Tubal C., and Girard. 3,159,360.
Girard, Peter F., to The Ryan Aeronautical Co. Auxiliary boom control for Rogallo type wing aircraft. 3,135,483, 6–2–64, Cl. 244—75.
Girard, Peter F., to The Ryan Aeronautical Co. Heliplane. 3,146,970, 9–1–64, Cl. 244—7.
Girard, Theodore A., to Heyden Newport Chemical Corp. Process for the control of slime-forming and other microorganisms with chlorophenyltrichloromethyl carbinol. 3,151,018, 9–29–64, Cl. 162—161.
Girard, Peter F., to Ryan Aeronautical Co. Articulated spreader bar lateral control system for flexible wing aircraft. 3,152,778, 10–13–64, Cl. 244—46.
Girard, Peter F., to The Ryan Aeronautical Co. Convertiplane. 3,155,341, 11–3–64, Cl. 244—7.
Girard, Theodore A.: *See*—
Fischer, Alfred, and Girard. 3,124,475.
Gradsten, Marcel A., and Girard. 3,154,518.
Girard, Peter F., to The Ryan Aeronautical Co. Flexible wing STOL assist system for aircraft. 3,135,482, 6–2–64, Cl. 244—43.
Giraudan Corp., The: *See*—
Eschinasi, Emile H., and Cotter. 3,163,658.
Girault, Pierre: *See*—
Allais, Andre, and Girault. 3,132,145.
Allais, Andre, and Girault. 3,132,146.
Allais, Andre, and Girault. 3,150,047.
Allais, Andre, and Girault. 3,151,026.
Warnant, Julien, Jolly, Allais, and Girault. 3,156,713.
Girault, Pierre, to C.S.F.-Compagnie Generale de Telegraphie Sans Fil. Miss distance indicator. 3,140,488, 7–7–64, Cl. 343—12.
Girden, Barney B. Swimmer's buoy. 3,123,845, 3–10–64, Cl. 9—311.
Girdler Corp.: *See*—
Mayland, Bertrand J. 3,144,301.
Girling Ltd.: *See*—
Parton, Clifford J. 3,122,218.
Riddy, Frederick T. 3,157,250.
Riddy, Frederick T. 3,160,236.
Sadler, Francis A. D. 3,138,071.
Wilkins, Douglas B., and Hopkins. 3,148,871.
Wilson, Alexander J. 3,143,000.
Girman, Bernard A.: *See*—
Walker, Donald C., and Girman. 3,133,025.
Girot, Pierre, to Le Methane Liquide, and Societe d'Etude du Transport et de la Valorisation des Gaz Naturels du Sahara, "S.E.G.A.N.S." Connecting element for expansion joints. 3,118,523, 1–21–64, Cl. 189—34.
Girotti, Enrico. Instrument for checking the punched cards used in accounting and statictical machines. 3,134,839, 5–26–64, Cl. 88—14.
Girouard, Philias H., C. V. Hickman (deceased, by J. W. Hickman, administratrix for said C. V. Hickman), G. A. Kane, J. I. Nelson, M. C. Neuman, H. Randolph, and T. C. Collier, to United States of America, Navy. Empty case ejector for automatic gun systems. 3,136,212, 6–9–64, Cl. 89—33.
Girouard, Philias H., C. V. Hickman (deceased, by J. W. Hickman, administratrix for said C. V. Hickman), G. A. Kane, J. I. Nelson, M. C. Neuman, H. Randolph, and T. C. Collier, to United States of America, Navy. Gun mount with shield means. 3,136,214, 6–9–64, Cl. 89—36.
Girouard, Philias H., C. V. Hickman, deceased (by J. W. Hickman, administratrix), G. A. Kane, J. I. Nelson, M. C. Neuman, H. Randolph, and T. C. Collier, to United States of America, Navy. Breech block operating mechanism. 3,144,809, 8–18–64, Cl. 89—4.
Girouard, Philias H., C. V. Hickman, deceased (by J. W. Hickman, administratrix), G. A. Kane, J. I. Nelson, M. C. Neumann, H. Randolph, and T. C. Collier, to United States of America, Navy. Breech block and ejector assembly. 3,146,671, 9–1–64. Cl. 89—24.
Girouard, Philias H., C. V. Hickman, deceased (by J. W. Hickman, administratrix), G. A. Kane, J. I. Nelson, M. C. Neuman, H. Randolph, and T. C. Collier, to United States of America, Navy. Means for charging hydraulic systems for guns. 3,146,672, 9–1–64, Cl. 89—43.
Giroud, Henri P. Humidifiers. 3,127,106, 3–31–64, Cl. 237—78.
Giroux, Anthony E., and J. R. Hulme, to Halliburton Co. Pump. 3,143,075, 8–4–64, Cl. 103—37.
Gish, John W. Non-glare lamp. 3,130,924, 4–28–64, Cl. 240—41.3.
Gisholt Machine Co.: *See*—
Fibikar, Robert J., and Senger. 3,159,059.
Greiner, Richard A. 3,128,395.
Sethne, Norman C. 3,116,643.
Gisiger-stähli, Joseph, and H. Benn. Combined timepiece and time-controlled switch. 3,146,324, 8–25–64, Cl. 200—37.
Gislason, Thorsteinn, to Sporlan Valve Co. Head pressure control for refrigeration system. 3,149,475, 9–22–64, Cl. 62—197.
Gisser, Henry, J. Messina, and S. Portnoy, to United States of America, Army. Lubricating process using non-spreading lubricants. 3,133,021, 5–12–64, Cl. 252—34.7.
Gist, John F., to G. & A. Firkins Ltd. Means for handling finely divided material. 3,155,287, 11–3–64, Cl. 222—189.
Gist, John I. Fifth wheel. 3,146,040, 8–25–64, Cl. 308—222.
Gist Mfg. Co.: *See*—
Crane, Jack P. 3,156,106.
Gist, Newman H., and S. G. Fowler. Self-cleaning racing plate. 3,159,220, 12–1–64, Cl. 168—24.
Gister, Sidney: *See*—
Reisner, David B., Gister, and Klein. 3,124,507.
Reisner, David B., Gister, and Klein. 3,124,588.
Gitlin, Robert M., and R. L. Muller, to American Aerospace Controls, Inc. Angular error compensating device. 3,149,-482, 9–22–64, Cl. 64—24.
Gits Bros. Mfg. Co.: *See*—
Jensen, Hans. 3,138,390.
Jensen, Hans, and Andersen. 3,120,959.
Warner, Dale J. 3,120,879.
Gits, J. P., Molding Corp.: *See*—
Gits, Jules P. 3,148,233.
Gits, Jules P. Molded articles and methods of making same. 3,130,856, 4–28–64, Cl. 220—31.
Gits, Jules P. Molded articles and methods of making same. 3,132,649, 5–12–64, Cl. 129—24.
Gits, Jules P., to J. P. Gits Molding Corp. Methods of making molded articles. 3,148,233, 9–8–64, Cl. 264—161.
Gitter, Roy E., to International Telephone and Telegraph Corp. Recurring signalling condition detector. 3,144,514, 8–11–64, Cl. 179—15.
Gittinger, William C.: *See*—
Carlozzi, Michael, and Gittinger. 3,148,113.
Gittins, William G., and C. H. Close. Manufacture of plastic covered panels for use in building construction. 3,130,101, 4–21–64, Cl. 156—163.
Gittleman, Herman M.: *See*—
Greenfield, Anthony F. 3,141,690.
Gittler, Allan. Printing device. 3,120,163, 2–4–64, Cl. 95—75.
Giudice, Sante. Smoke and heat operated electrical alarm device. 3,162,846, 12–22–64, Cl. 340—237.
Giuffrida, Philip: *See*—
Graves, Donald L., and Giuffrida. 3,143,161.
Graves, Donald L., and Giuffrida. 3,143,162.
Giuffrida, Philip, to Electronics Corp. of America. Combustion control system. 3,154,724, 10–27–64, Cl. 317—130.
Giuliani, Adamo. Automatic automobile cigarette lighter with case. 3,143,245, 8–4–64, Cl. 221—147.
Giulie, Joe D., to Illumitronic Systems Corp. Weighing cell. 3,148,742, 9–15–64, Cl. 177—46.
Giulie, Joe D., and C. F. Peasley, to Illumitronic Systems Corp. Rejection system. 3,129,803, 4–21–64, Cl. 198—31.
Giulini, Gebruder, G.m.b.H.: *See*—
Garre, Bernward. 3,117,867.
Giulitto, Vito F.: *See*—
Burr, Warren W., Durbin, Giulitto, Seeger and Snyder. 3,127,135.

Giustiniani, Piero, G. Natta, M. Farina, G. Mazzanti, and G. Crespi, to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Polymer compositions and textile fibers produced therefrom. 3,151,185, 9–29–64, Cl 260—889.

Giustiniani, Piero, G. Natta, G. Mazzanti, and G. Crespi, to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Poly-alpha-olefin composition having improved dye affinity. 3,153,680, 10–20–64, Cl. 260—45.5.

Givaudan Corp., The: *See*—
Erickson, Julius L. E., Dorsky, and Easter. 3,137,731.
Nikawitz, Edward J. 3,133,119.
Nikawitz, Edward J. 3,152,122.
Wood, Thomas F., and Angiolini. 3,151,174.
Wood, Thomas F., and Angiolini. 3,152,192.

Given, Richard L., R. G. Nyder, and R. C. Lee, to United States of America, Navy. Four layer diode transmission gate. 3,124,701, 3–10–64, Cl. 307—88.5.

Givon, Bernd S.: *See*—
Chubb, Donald E., and Givon. 3,150,277.

Givry, Jean: *See*—
Bocquentin, Jacques, and Givry. 3,159,561.

Gizdich, Jerry M. Portable automobile stop signal. 3,121,416, 2–18–64, Cl. 116—28.

Gizeski, Terrence, to Ferguson, Hille & Associates, Inc. Electro-pneumatic valve operator. 3,135,493, 6–2–64, Cl. 251—30.

Gizeski, Terrence. Digital control system. 3,162,365, 12–22–64, Cl. 235—200.

Gjerken Elektro A/S: *See*—
Gjerken, Haakon. 3,148,363.

Gjerken, Haakon, to Gjerken Elektro A/S. Electric temperature control and fire alarm system. 3,148,363, 9–8–64, Cl 340—227.

Gjertsen, Paul R. Mold apparatus used in making ceramic and abrasive products. 3,161,937, 12–22–64, Cl. 25—119.

Gjessvag, Oyvind: *See*—
Eriksson, Elof E., Gjessvag, and Olsson. 3,126,508.
Szarvas, Gyorgy, and Gjessvag. 3,149,238.

Glabe, Elmer F., to Food Technology, Inc. Method of making continuous-mix bread. 3,121,013, 2–11–64, Cl. 99—90.

Glabe,, Elmer F., to J. H. Kraft. Partially hydrolyzed roasted sesame food product and process for producing same. 3,134,677, 5–26–64, Cl. 99—80.

Glabisch, Dietrich, W. Becker, and I. Dennstedt, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of thermostable acrylonitrile polymers having an improved dyeing capacity. 3,126,361, 3–24–64, Cl. 260—78.

Glaces de Boussois, S.A.: *See*—
Long, Bernard. 3,116,863.

Glacier Metal Co. Ltd., The: *See*—
Fulford, Bruce B. 3,132,418.
Love, Phil P. 3,161,446.

Gladding, Edward K., to E. I. du Pont de Nemours and Co. Olefin copolymerization catalyst. 3,147,230, 9–1–64, Cl. 252—429.

Gladding, Edward K., to E. I. du Pont de Nemours and Co. Ethylene polymers prepared in the form of a coherent film at a quiescent liquid catalyst surface. 3,162,620, 12–22–64, Cl. 260—80.5.

Gladding, Edward K., and K. A. Saegebarth, to E. I. du Pont de Nemours and Co. Process for preparing vanadium tris (acetylacetonate). 3,119,851, 1–28–64, Cl. 260—429.

Glade, Leonard: *See*—
Willits, Myron H. 3,154,018.

Gladieux, Norman K.: *See*—
Badger, Alfred E., Gladieux, and King. 3,137,556.

Gladieux, Norman K., G. F. Ritter, Jr., and A. E. Badger, to Libbey-Owens-Ford Glass Co. Method and apparatus for supporting sheet material. 3,150,948, 9–29–64, Cl. 65—25.

Gladrow, Elroy M.: *See*—
De Feo, Richard J., and Gladrow. 3,157,591.
Mattox, William J., and Gladrow. 3,121,754.

Gladson, Curtis L.: *See*—
Neil, Hugh G., Gladson, and Wiklund. 3,126,450.

Gladstone, Murray N. Reproduction of photographic images on ceramic surfaces. 3,156,562, 11–10–64, Cl. 96—34.

Glaenzer Spicer Societe Anonyme: *See*—
Orain, Michel. 3,125,870.

Glaesener, Ernest. Steel making. 3,151,976, 10–6–64, Cl. 75—53.

Glahe, Erwin, to Durrwerke Aktiengesellschaft. Device for low load operation of once-through boilers. 3,120,839, 2–11–64, Cl. 122—406.

Glahe, Frederick W., to Wilson Athletic Goods Mfg. Co., Inc. Chest protector. 3,125,762, 3–24–64, Cl. 2—2.

Glaisher, Edward J., to North American Philips Co., Inc. Time-base circuit for magnetic beam deflection. 3,133,228, 5–12–64, Cl. 315—27.

Glamann, Wilhelm. Internal combustion engines. 3,143,849, 8–11–64, Cl. 60—13.

Glamorene Industries Factors, Inc.: *See*—
Kahan, Mortimer J. 3,119,695.

Glamorise Foundations, Inc.: *See*—
Morano, Patrick J. 3,131,698.
Morano, Patrick J. 3,154,083.
Rosner, Leonard A. 3,131,697.

Glandon, Adrian E.: *See*—
Canaday, Roscoe H., and Glandon. 3,131,350.

Glaner, Louis O. Paper and deodorant dispenser. 3,151,822, 10–6–64, Cl. 242—55.55.

Glantz, Alvin: *See*—
Pascucci, Vito, and Glantz. 3,161,103.

Glanville, James W.: *See*—
Arendt, Harry S., and Glanville. 3,131,760.

Glas, Wayne W., and C. J. Trick. Catheter. 3,161,197, 12–15–64, Cl. 128—295.

Glasbrenner, Harold, to Jackson Exit Device Corp. Door closer spindle arm. 3,148,407, 9–15–64, Cl. 16—129.

Glasby, Alan, and Co. Ltd.: *See*—
Glasby, Alan G. S. 3,138,328.

Glasby, Alan G. S., to Alan Glasby and Co. Ltd. Apparatus for generating aerosols. 3,138,328, 6–23–64, Cl. 239—77.

Glasby, Francis G.: *See*—
Couzens, Reginald, and Glasby. 3,150,575.

Glasby, Francis G., to Robinson & Sons Ltd. Method and apparatus for making spirally wound containers. 3,133,483, 5–19–64, Cl. 93—80.

Glasby, Francis G., to Robinson & Sons Ltd. Method for the production of spirally wound containers. 3,139,011, 6–30–64, Cl. 93—80.

Glasby, Francis G., to Robinson & Sons Ltd. Method and apparatus for cutting spirally wound tubes in accurate register. 3,150,574, 9–29–64, Cl. 93—80.

Glaser, David, to Burroughs Corp. Destructive readout of delay line. 3,157,838, 11–17–64, Cl. 328—121.

Glaser, David, and W. I. de Versterre, to Burroughs Corp. Signal converters. 3,140,480, 7–7–64, Cl. 340—347.

Glaser, David, and G. P. Hlavka, to Burroughs Corp. Photosensitive light gun. 3,151,248, 9–29–64, Cl. 250—227.

Glaser, Donald A.: *See*—
Didde, Carl W., Glaser, and Higgins. 3,122,391.

Glaser, Edward L., to Burroughs Corp. Electronic digital computer with word field selection. 3,161,763, 12–15–64, Cl. 235—157.

Glaser, Gunther: *See*—
Herr, Fritz, and Glaser. 3,156,857.

Glaser, Gunther, A. Kopp, and A. Lamprecht. Magnetic escapement. 3,149,269, 9–15–64, Cl. 317—201.

Glaser, Günther, and F. Herr. Driving mechanism for the movement regulator of an electric clock. 3,163,787, 12–29–64, Cl. 310—38.

Glaser, Jerry, to The Garrett Corp. Gimbal mount for bearings and other devices. 3,131,003, 4–28–64, Cl. 308—22.

Glaser, Kurt F., to Reynolds Metals Co. Apparatus for assembling interlocking extrusions and the like. 3,119,173, 1–28–64, Cl. 29—200.

Glaser, Lewis I.: *See*—
Lang, Charles W., Terwilliger, and Glaser. 3,134,041.

Glaser, Marvin B., and I. Lichtenstein, to Esso Research and Engineering Co. Process for reducing the pour points of crude oils. 3,136,711, 6–9–64, Cl. 208—37.

Glaser, Peter E., A. Pastuhov, and L. R. B. Hervey, to Arthur D. Little, Inc. Process for forming insulation and resulting product. 3,124,853, 3–17–64, Cl. 20—101.

Glaser, Peter E., W. A. Salmon, and A. G. Emslie, to Arthur D. Little, Inc. Insulation. 3,151,364, 10–6–64, Cl. 20—4.

Glaser, Peter E., A. G. Emslie, and W. A. Salmon, to Arthur D. Little, Inc. Insulation material and structures containing same. 3,151,365, 10–6–64, Cl. 20—4.

Glaser, Rolf, to Starrfrasmaschinen AG. Hydraulic control for moving elements of a machine tool. 3,135,170, 6–2–64, Cl. 91—461.

Glaser, Rolf, to Starrfrasmaschinen AG. Hydraulic control arrangement for moving elements of a machine tool. 3,154,922, 11–3–64, Cl. 60—52.

Glaser, William F., and A. E. Prince, to Otis Elevator Co. Selector arrangement for indicating the location of elevator cars. 3,149,305, 9–15–64, Cl. 340—21.

Glasgow, Clarence O., to National Tank Co. Manifold valve. 3,134,395, 5–26–64, Cl. 137—315.

Glasgow, Clarence O. Valve seat. 3,134,572, 5–26–64, Cl. 251—363.

Glasgow, Clarence O. Gasket ring for pipe couplings. 3,134,612, 5–26–64, Cl. 285—112.

Glasgow, Clarence O. Rotating electric sign device. 3,153,292, 10–20–64, Cl. 40—39.

Glasgow, Clarence O., and R. W. Coggins, to National Tank Co. Method and apparatus for producing oil and gas wells. 3,119,674, 1–28–64, Cl. 55—20.

Glasgow, George U., to Wallace & Tiernan Inc. N-halo organic compounds having improved water-wettability. 3,142,647, 7–28–64, Cl. 252—187.

Glasrock Products, Inc.: *See*—
North, John W. 3,151,964.

Glass, Emmett F.: *See*—
Brackbill, Warren H., and Glass. 3,123,966.

Glass, Emmett F., to Sperry Rand Corp. Caster wheel for a side delivery rake. 3,124,922, 3–17–64, Cl. 56—377.

Glass, Ferris N., and L. J. Kreiser. Heating element for eliminating ice from a roof. 3,129,316, 4–14–64, Cl. 219—19.

Glass, Fred T., to Roberts Co. Stop motion for twisting frame or the like. 3,162,005, 12–22–64, Cl. 57—84.

Glass, Henry P. Body supporting furniture of the polygonal tension type. 3,123,395, 3–3–64, Cl. 297—16.

Glass, John P., to Litton Industries, Inc. Magnetizable core. 3,123,747, 3–3–64, Cl. 317—158.

Glass, John P. Cam operated sampling switch having means for changing the switch-closing time by small increments. 3,144,523, 8–11–64, Cl. 200—38.

Glass, John Y., and J. L. Amos, to The Dow Chemical Co. Electrostatic spraying of polyurethane foam. 3,147,137, 9–1–64, Cl. 117—93.4.
Glass, Marvin, and Associates: *See*—
Glass, Marvin I., and Kripak. 3,151,866.
Glass, Marvin I., and Meyer. 3,120,079.
Glass, Marvin I., and Meyer. 3,120,958.
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Kripak, Leonid. 3,139,280.
Stan, Henry. 3,128,099.
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Braverman, Robert P. 3,139,237.
Braverman, Robert P. 3,159,109.
Glass, Marvin I., and B. C. Meyer, to Marvin Glass and Associates. Wheeled figure toy with sounding and dispensing means. 3,120,079, 2–4–64, Cl. 46—98.
Glass, Marvin I., and C. Ayala; said Ayala assor. to said Glass. Toy cooking utensil with sounding means. 3,120,717, 2–11–64, Cl. 46—14.
Glass, Marvin I., and C. Ayala; said Ayala, assor. to said Glass. Toy barbecue grill with sounding means. 3,120,718, 2–11–64, Cl. 46—14.
Glass, Marvin I., and B. C. Meyer, to Marvin Glass & Associates. Game. 3,120,958, 2–11–64, Cl. 273—95.
Glass, Marvin I., and B. C. Meyer; said Meyer assor. to said Glass. Movable figure toy. 3,130,518, 4–28–64, Cl. 46—105.
Glass, Marvin I., and B. C. Meyer, to Marvin Glass Associated. Wheeled toy target with ball retaining and sounding means. 3,132,864, 5–12–64, Cl. 273—127.
Glass, Marvin I., and L. Kripak, to Marvin Glass and Associates. Self-propelled target toy with electrical target hit indicating means. 3,151,866, 10–6–64, Cl. 273—102.2.
Glass, Marvin I., and D. E. Verbickas, to Marvin Glass & Associates. Game using object spelling cards and object representing playing pieces. 3,159,403, 12–1–64, Cl. 273—135.
Glass, William A., Jr. Hand fin for swimming. 3,122,760, 3–3–64, Cl. 9—308.
Glass, William H., to Westinghouse Air Brake Co. Vacuum brake system for railway trains. 3,144,277, 8–11–64, Cl. 303—12.
Glass, William H., to Westinghouse Air Brake Co. Variable load vehicle fluid pressure brake system. 3,147,044, 9–1–64, Cl. 303—22.
Glassburn, William E.: *See*—
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Glassburn, William E., to Westinghouse Electric Corp. Electroresponsive protective systems. 3,133,230, 5–12–64, Cl. 317—36.
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Elizer, Lee H., Glasscock, and Seitz. 3,136,646.
Glasser, Alan, to Creative Consultants Corp. Projectile and weapon for firing same. 3,145,658, 8–25–64, Cl. 102—38.
Glasser, Alan, to Creative Consultants Corp. Method of drawing sheet stock. 3,146,880, 9–1–64, Cl. 205—1.
Glasser, Harry W., and S. McCaslin. Panel retaining structure. 3,130,833, 4–28–64, Cl. 206—80.
Glassman, Aaron, and P. Bonarrigo, to Pennsylvania Sewing Research Corp. Attachments for sewing machines. 3,143,092, 8–4–64, Cl. 112—105.
Glassman, Frederick R. Toy shuffleboard game. 3,147,977, 9–8–64, Cl. 273—126.
Glassman, Jacob A. Surgical instrument trays. 3,116,828, 1–7–64, Cl. 206—72.
Glassman, Jacob A. Surgical extractors. 3,137,298, 6–16–64, Cl. 128—328.
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Buckley, Donald, and Glassman. 3,137,685.
Glassner, Harvey F., R. E. Smith, and J. H. Watson, to Douglas Aircraft Co., Inc. Method and apparatus for automatically analyzing disorders of the human body. 3,140,710, 7–14–64, Cl. 128—2.05.
Glassoloid Corp. of America: *See*—
Jemison, Volney M., and Young. 3,139,816.
Glasson, Woodrow R., and C. Voss, to Reliance Electric and Engineering Co. Automatic belt tensioner for expansible V-pulley drive. 3,138,033, 6–23–64, Cl. 74—230.17.
Glasspoole, Alan J.: *See*—
Stansfield, Frank M., Glasspoole, Morland, and Bradshaw. 3,125,082.
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Ellis, Charles A. 3,122,621.
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Glastra, Hendrik, to North American Philips Co., Inc. Cutting mechanism for use in an electronic yarn cleaner. 3,132,407, 5–12–64, Cl. 28—64.
Glastra, Hendrik. Spinning-spindle. 3,162,994, 12–29–64, Cl. 57—13.
Glastra, Hendrik, and G. C. van den Berg, said van den Berg assor. to said Glastra. Yarn winding machine. 3,131,879, 5–5–64, Cl. 242—35.6.
Glastra, Hendrik, and G. C. van den Berg; said van den Berg assor. to said Glastra. Combination of a ring spinning frame with a winding machine. 3,132,463, 5–12–64, Cl. 57—52.
Glatfelter, Edward W., and E. T. Keast, Jr., to The Boeing Co. Pickup system. 3,127,133, 3–31–64, Cl. 244—77.
Glatfelter, P. H., Co.: *See*—
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Glathe, Manfred, and K. Bar, to Chemische Werke Huls Aktiengesellschaft. Removal of iron from a butadiene-styrene latex by the use of an alkali metal hydroxide. 3,117,109, 1–7–64, Cl. 260—85.1.
Glatt, Werner, and H. Wiedman; said Wiedmann, assor. to Glatt. Devices for drying damp granules. 3,144,310, 8–11–64, Cl. 34—186.
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Matter, Max, and Glatthard. 3,118,931.
Glättli, Hans H., to International Business Machines Corp. Fluid logical device. 3,122,313, 2–25–64, Cl. 235—61.
Glatz, Albert. Umbrella. 3,120,238, 2–4–64, Cl. 135—21.
Glatz, Edward J. Poultry clip device. 3,131,448, 5–5–64, Cl. 24—87.
Glauber, Myron J. Collapsible type cartridge valve. 3,144,042, 8–11–64, Cl. 137—454.6.
Glaubke, Allen F., to Western Electric Co., Inc. Part transfer apparatus. 3,151,727, 10–6–64, Cl. 198—24.
Glaude, Leopold F. Tool adapter apparatus for a drill press. 3,118,261, 1–21–64, Cl. 51—241.
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De Voghel, Raymond J. M. J. 3,126,208.
Glavis, Frank J.: *See*—
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Glaxo Group Ltd.: *See*—
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Elks, Joseph, Oughton, and Stephenson. 3,130,212.
Muggleton, Peter W., Dudley, and Gonzalez Bellido. 3,135,663.
Oughton, John F., and Stephenson. 3,133,940.
Rhodes, Alan, Boothroyd, Fantes, McGonagle, and Crosse. 3,123,530.
Ritchie, Alexander C., Clark, Walker, and Whiting. 3,121,722.
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Wilkinson, Peter A., and Tebby. 3,161,684.
Wilson, Alan, Raper, Sayer, Best, Richards, Shaw, and Lockwood. 3,152,150.
Glaxo Laboratories Ltd.: *See*—
Evans, Elwyn, and White. 3,143,550.
Ritchie, Alexander C., and Clark. 3,159,638.
Glaz, Gideon, to Radio Corp. of America. Threshold circuit utilizing series capacitor-diode combination and employing diode clamp to maintain information transmission. 3,131,316, 4–28–64, Cl. 307—88.5.
Glaze, Ardelle, to The Tyler-Wayne Research Corp. Process of producing a unitary multiple wire strand. 3,131,469, 5–5–64, Cl. 29—470.5.
Glazier, Edwin M., R. W. Helwig, and V. J. Yeakley, to Gulf Research & Development Co. Hydrodealkylation process. 3,149,176, 9–15–64, Cl. 260—672.
Gleason, Charles H.: *See*—
Staples, Robert L., Warnken, and Gleason. 3,137,792.
Gleason, Fred C., to American Home Products Corp. Shoe polish dispenser. 3,147,512, 9–8–64, Cl. 15—566.
Gleason, Fred C., to American Home Products Corp. Apparatus for orienting elongated tailed objects. 3,148,762, 9–15–64, Cl. 198—33.
Gleason, Frederick C., W. G. Krack, and H. W. Soukup, to American Home Products Corp. Aerosol valve inserting machine. 3,118,218, 1–21–64, Cl. 29—200.
Gleason, Quin R., and K. A. Boyd, to Master Pneumatic, Inc. Air line lubricator. 3,131,786, 5–5–64, Cl. 184—55.
Gleason Reel Corp.: *See*—
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Gleason Works, The: *See*—
Carlsen, Leonard O., and Deprez. 3,146,551.
Dammert, Earl D., Fidd, and Pedersen. 3,138,996.
Deprez, Thomas A. 3,136,093.
Howing, George H. 3,139,194.
Treverton, Richard W. 3,138,995.
Gledhill, Alvin F., to Boeing Airplane Co. Motion meters. 3,122,023, 2–25–64, Cl. 73—490.
Gledhill, Arthur E., to The Stanley Works. Mounting bracket. 3,135,489, 6–2–64, Cl. 248—223.
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Gleichert, Robert D., to Pittsburgh Plate Glass Co. Process for the manufacture of calcium hypochorite. 3,134,641, 5–26–64, Cl. 23—86.
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Gleim, William K. T., to Universal Oil Products Co. Treating hydrocarbon distillates. 3,130,148, 4–21–64, Cl. 208—189.
Gleim, William K. T., to Universal Oil Products Co. Hydrorefining with decomposed organo-metallic catalyst. 3,161,584, 12–15–64, Cl. 208—264.
Gleim, William K. T., and J. G. Gatsis, to Universal Oil Products Co. Hydrorefining crude oil with colloidally dispersed catalyst. 3,161,585, 12–15–64, Cl. 208—264.
Gleisner, William C., Jr., to Kearney & Trecker Corp. Twin reader tool identifying apparatus. 3,163,291, 12–29–64, Cl. 211—1.5.
Glendenning, Don M.: *See*—
Onulak, Eugene W., and Glendenning. 3,141,347.
Glendenning, Robert W.: *See*—
Westwood, Roy B., and Glendenning. 3,153,493.

Glenister, Paul R.: *See*—
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Glenn, Charles A., and T. H. Holmes, to United Aircraft Corp. Fusible shaft seal. 3,117,792, 1–14–64, Cl. 277—22.
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Glenn, Edward R. Sliding door accessory. 3,143,773, 8–11–64, Cl. 20—19.
Glenn, Eldridge M., to The Upjohn Co. Glyceraldehyde as a topical anti-inflammatory agent. 3,162,576, 12–22–64, Cl. 167—58.
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Meucci, William J. 3,137,014.
Glenn, George G., and W. W. Gibson, to Glenn Pacific Corp. High efficiency auto-modulated welding arc power supply. 3,136,884, 6–9–64, Cl. 219—131.
Glenn, Howard J., to Abbott Laboratories. Method of making a radioactive composition. 3,127,313, 3–31–64, Cl. 167—51.
Glenn, John H., and G. M. Brown, to Brown Mud Co. Method of reducing seepage from waterways. 3,124,934, 3–17–64, Cl. 61—36.
Glenn, Lester W. Method of dispersing fluid beneath slab floors. 3,124,893, 3–17–64, Cl. 43—124.
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Glenn, George G., and Gibson. 3,136,884.
Glenn, Richard L., and R. A. O'Dell, to Butler Mfg. Co. Storage bin unloading apparatus. 3,134,491, 5–26–63, Cl. 214—17.
Glenn, William E., Jr., to General Electric Co. Color projection system. 3,118,969, 1–21–64, Cl. 178—5.4.
Glenn, William E., Jr., to General Electric Co. Medium for recording. 3,147,062, 9–1–64, Cl. 346—77.
Glenn, William E., Jr., and J. L. Henkes, Jr., to Generel Electric Co. Information recording and developing apparatus and method. 3,116,962, 1–7–64, Cl. 346—77.
Glenn, William E., Jr., and R. L. Watters, to General Electric Co. Color signal system. 3,134,852, 5–26–64, Cl. 178—5.4.
Glennan, Thomas K., Administrator of the National Aeronautics and Space Administration, with respect to an invention of W. Gin, L. R. Piasecki, and R. Geoffrey. Apparatus and method for control of a solid fueled rocket vehicle. 3,122,098, 2–25–64, Cl. 102—49.
Glenner, Edward J., to Automatic Electric Laboratories, Inc. Automatic toll ticketing telephone system. 3,136,857, 6–9–64, Cl. 179—7.1.
Glenny, Clarence S., deceased (by M. Glenny, administratrix), to The Washburn Co. Hamburger press. 3,120,678, 2–11–64, Cl. 17—32.
Glenny, Clarence S., deceased (by M. Glenny, administratrix), to The Washburn Co. Baskets of wire and sheet metal construction. 3,144,161, 8–11–64, Cl. 220—19.
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Glenny, Clarence S. 3,120,678.
Glenny, Clarence S. 3,144,161.
Gleockler, Frederick M. Air conditioner for a face mask. 3,140,590, 7–14–64, Cl. 62—459
Glerum, Irvin L., to W. C. Dillon & Co., Inc. Measuring device transducer. 3,151,303, 9–29–64, Cl. 336—30.
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Ohsol, Ernest O., and Gleysteen. 3,147,205.
Glezen, William H., and J. C. Ludwick, Jr., to Gulf Research & Development Co. Method and apparatus for making grain shape analyses. 3,142,180, 7–28–64, Cl. 73—432.
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Kaufman, David, Buccino, and Glick. 3,125,095.
Glicken, Harry. Method for rolling thread forms having extremely high helix angles. 3,137,185, 6–16–64, Cl. 80—61.
Glickman, Samuel A.: *See*—
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Glickman, Samuel A., to General Aniline & Film Corp. Film forming composition of copolymers of N-vinyl-ε-caprolactam. 3,145,147, 8–18–64, Cl. 167—87.1.
Glickman, Samuel A., and E. S. Miller, to General Aniline & Film Corp. Polymerization of pyrrolidone and piperidone employing N,N-disubstituted ureas as chain initiators. 3,148,174, 9–8–64, Cl. 260—78.
Glickman, Samuel A., E. S. Miller, and S. R. Buc, to General Aniline & Film Corp. Polymerization of pyrrolidone and piperidone; process employing halides and oxyhalides of sulfur and phosphorus. 3,158,589, 11–24–64, Cl. 260—78.
Glicksman, Richard, and E. T. Casterline, to Radio Corp. of America. Semiconductor devices. 3,151,004, 9–29–64, Cl. 148—33.3.
Glidden Co., The: *See*—
Anderson, Theodore R. 3,129,110.
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Kingston, Joseph G., and Vale. 3,117,942.
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Gliksmann, David, to Burlington Industries, Inc. Worsted stretch fabric and process for manufacturing same. 3,127,658, 4–7–64, Cl. 28—72.
Glindmeyer, Victor B. High fidelity speaker mounting. 3,138,220, 6–23–64, Cl. 181—31.
Glisson, Fredrick M. Air charger for water storage tanks. 3,162,130, 12–22–64, Cl. 103—6.
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Globe-Union, Inc.: *See*—
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Marks, Bert H., and Sperry. 3,124,718.
Roup, Rolland R., Laird, and Taylor. 3,117,094.
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Gloersen, Per, B. Gorowitz, and K. G. Moses, to General Electric Co. Plasma accelerator system. 3,151,259, 9–29–64, Cl. 310—11.
Glomb, Walter L., to International Telephone and Telegraph Corp. Amplifier control system. 3,121,844, 2–18–64, Cl. 330—10.
Gloor, Paul, to Rotel A.G. Domestic juice centrifuges. 3,126,336, 3–24–64, Cl. 210—369.
Gloor, Urs, R. Rüegg, and U. Schwieter, to Hoffmann-La Roche Inc. Isoprenoid substituted quinones of the coenzyme Q type. 3,118,914, 1–21–64, Cl. 260—396.
Gloor, Walter E., to Hercules Powder Co. Drilling fluid. 3,157,599, 11–17–64, Cl. 252—8.5.
Glore, Robert F., to Bell Telephone Laboratories, Inc. Ferromagnetic sensing device. 3,138,720, 6–23–64, Cl. 307—88.
Glorioso, Paul A., to Gregory Industries, Inc. Condenser discharge stud welding apparatus. 3,136,880, 6–9–64, Cl. 219—98.
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Glover, Clarence D., to Hydro-Centura Engineering, Inc. Retractable sprinkler system. 3,118,609, 1–21–64, Cl. 239—205.
Glover, Clyde P., to United States of America, Navy. Support for electro-acoustic transducer. 3,137,836, 6–16–64, Cl. 340—10.
Glover, Donald J., J. C. Dacons, D. V. Sickman, M. E. Hill, and M. J. Kamlet, to United States of America, Navy. Process for the manufacture of nitroform and its salts. 3,125,606, 3–17–64, Cl. 260—644.
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Glover, William C., Jr., to Bill Glover, Inc. Automatic laundry machine. 3,152,461, 10–13–64, Cl. 68—12.
Glowka, Martin. Rustproof covers for garment hangers. 3,120,913, 2–11–64, Cl. 223—98.
Gluck, Alfred, to VEB Zahnschneidemaschinenfabrik Modul. Gear finishing machine. 3,149,533, 9–22–64, Cl. 90—1.6.
Gluck, Jerome E., and C. C. A. Wells, to Lockheed Aircraft Corp. Optical alignment device for viewing opposite sides of a test element. 3,153,112, 10–13–64, Cl. 88—14.
Gluck, Martin J. Moldable composition. 3,121,656, 2–18–64. Cl. 161—158.
Gluck, William, to United International Dynamics Corp. Electrical connection. 3,147,059, 9–1–64, Cl. 339—193.

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Grishman, Simon. 3,144,870.
Gluckstein, Martin E., to Ethyl Corp. Ignition system for solid propellants. 3,147,710, 9–8–64, Cl. 102—70.
Gluesenkamp, Earl W., W. R. Richard, Jr., and J. F. K. Wilshire, to Monsanto Co. Bis(arene)chromium-aluminum alkyl polymerization catalysts. 3,149,080, 9–15–64, Cl. 252—431.
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Glynn, Brian, to Tridon Mfg. Ltd. Attachment clip for automobile windshield wipers. 3,147,508, 9–8–64, Cl. 15—250.32.
Glynn, Theodore W., to American-Saint Gobain Corp. Colored glass article. 3,117,886, 1–14–64, Cl. 117—45.
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Glyptis, Nicholas D. Character display cathode-ray tube. 3,143,685, 8–4–64, Cl. 315—15.
Gmitter, George T., to The General Tire & Rubber Co. Cellular polyetherurethanes and methods of making same. 3,149,083, 9–15–64, Cl. 260—2.5.
Gmitter, George T., to The General Tire & Rubber Co. Preparation of urethanes using polycyclic polyamine catalysts. 3,156,658, 11–10–64, Cl. 260—2.5.
Gmitter, George T., and E. V. Braidich, to The General Tire & Rubber Co. Method of making a polyetherurethane using an aromatic tin catalyst. 3,148,162, 9–8–64, Cl. 260—2.5.
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Marek, Bruno S. V., and Gneisz. 3,141,813.
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Eck, John C., and Gocze. 3,156,544.
Goda, George: *See*—
Asnes, Marvin A., and Goda. 3,148,146.
Rovin, Herman, Goda, and Sundheimer. 3,132,665.
Goda, George, to Clay-Adams, Inc. Adjustable stroke liquid dispenser having yieldable aligning means. 3,122,280, 2–25–64, Cl. 222—309.
Goda, James A.: *See*—
Shields, Harold L., and Goda. 3,137,356.
Godar, Charles L., to Etude et Realisatin d'Omnis Precision "E.R.O.P." C. I. Godar. Machine tools. 3,135,071, 6–2–64, Cl. 51—166.
Godart-Manimex, N.V.: *See*—
De Dobbeleer, Gilbert D. P. 3,118,440.
Godat, Jean J. L., and L. Pedersen, to General Precision, Inc. Automatic film transport lock and drive mechanism. 3,149,796, 9–22–64, Cl. 242—55.12.
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Godbey, Josiah J., to The Atlantic Refining Co. Discriminator for frequency modulated seismic signals. 3,122,707, 2–25–64, Cl. 329—117.
Godbey, Josiah J., to The Atlantic Refining Co. F.M. system for seismic exploration. 3,153,221, 10–13–64, Cl. 340—15.5.
Goddard, Denis A., to Dominion Engineering Works Ltd. Calender. 3,157,110, 11–17–64, Cl. 100—170.
Goddard, Denis A., to Beloit Corp. Automatic flying splice. 3,161,367, 12–15–64, Cl. 242—58.4.
Goddard, John A., and J. Orr, to Ronson Corp. Operating mechanism for mechanical lighters. 3,116,622, 1–7–64, Cl. 67—7.1.
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Van Horne, William E., Barnett, and Goddard. 3,149,900.
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Goddard, Murray C., and R. W. Huboi, to Eastman Kodak Co. Exposure control system for color printers. 3,120,782, 2–11–64, Cl. 88—24.
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Godderidge, Jean. Apparatus for winding wire. 3,147,934, 9–8–64, Cl. 242—82.
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Godefroi, Erik F., and R. F. Parcell, to Parke, Davis & Co. Process for the production of N-substituted-1-phenylcyclohexylamines. 3,145,229, 8–18–64, Cl. 260—570.5.
Godefroy, Johan. Dry shaver with reciprocating inner cutter and compound oscillating outer shear plate. 3,156,045, 11–10–64, Cl. 30—43.3.
Godel, Siegfried, to American Machine & Foundry Co. Pawl and ratchet mechanisms. 3,138,030, 6–23–64, Cl. 74—159.
Godel, Siegfried, to American Machine & Foundry Co. Bidirectional stepping motor. 3,156,835, 11–10–64, Cl. 310—22.
Godfrey, James H., and K. Damijonaitis, to The Stanley Works. Portable reciprocating saw. 3,155,128, 11–3–64, Cl. 143—68.
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Godfrey, Kenneth L., to Monsanto Co. Controlling vegetation with aryl thioalkylamines. 3,142,554, 7–28–64, Cl. 71—2.3.
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Lesesne, Sherman D., Godfrey, and Moss. 3,161,682.
Moss, Philip H., and Godfrey. 3,151,115.
Godfrey, Norman B., to Jefferson Chemical Co., Inc. Method for preparing N-alkyl substituted piperazines. 3,120,524, 2–4–64, Cl. 260—268.
Godfrey, Sir George, & Partners (Holdings) Ltd.: *See*—
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Godfrey, Thomas A., to American Machine & Foundry Co. Method and apparatus for feeding web in a cigar machine. 3,152,497, 10–13–64, Cl. 83—18
Godfrey, Thomas A., and S. T. Gustavson, to American Machine & Foundry Co. Cigar bunch wrapping machine. 3,139,091, 6–30–64, Cl. 131—30.
Godier, Alec L., to Texaco Trinidad, Inc. Sensitive low frequency servo system. 3,135,901, 6–2–64, Cl. 318—29.
Godinez, William S.: *See*—
Chupungco, Estanislao J., Quintos, and Godinez. 3,148,051.
Godins "The Rollers of Steel Sections" Ltd.: *See*—
Nash, Leonard J. 3,144,071.
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Morgan, David L., and Godkin. 3,139.897.
Godlewski, Edward S. Collating device with selective dispensing means. 3,158,366, 11–24–64, Cl. 270—58.
Godlove, Terry F., to United States of America, Navy. Spark gap trigger circuit. 3,141,111, 7–14–64, Cl. 315—181.
Godman, Warren L. Destratifying uniform blender. 3,155,377, 11–3–64, Cl. 259—180.
Godowsky, Leopold, and J. J. Duane, to Eastman Kodak Co. Method for controlling speed and contrast of photographic emulsions. 3,152,907, 10–13–64, Cl. 96—98.
Godsey, James H., to Hercules Powder Co. Heat-resistant propellants. 3,152,027, 10–6–64, Cl. 149—83.
Godshalk, James B., to Fox Products Co. Automatic valves and poultry waterers embodying the same. 3,132,664, 5–12–64, Cl. 137—408.
Godshalk, James B., and L. A. Medlar, to Fox Products Co. Battery chargers. 3,129,373, 4–14–64, Cl. 320—25.
Godtfredsen, Wagn O., to Løvens Kemiske Fabrik Ved A. Kongsted. Method for the production of 6-aminopenicillanic acid. 3,161,573, 12–15–64, Cl. 195—36.
Godwin, Homer A., F. G. Brockardt, and J. H. Koch, to West Virginia Pulp and Paper Co. Thread break detection device. 3,159,123, 12–1–64, Cl. 112—219.
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Goebel, Siebert, M. Haeberle, W. Zacher, and G. Schmidt-Thomee, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Apparatus for purifying high pressure polyethylene. 3,117,953, 1–14–64, Cl. 260—94.9.

Goecke, Max, and R. Nagelschmidt, to Deutsche Gold- und Silber Schneideanstalt vormals Roessler. Production of bonded bodies of at least two different halogenated natural or synthetic rubber bodies. 3,158,521, 11–24–64, Cl. 156—310.

Goedicke, Volkmar, to Schering Aktiengesellschaft. 1,3-diketosteroids. 3,118,916, 1–21–64, Cl. 260—397.4.

Goehle, Earl G., to Gay-Lee Co. Spacing gauge. 3,162,954, 12–29–64, Cl. 33—148.

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Goeke, Eberhard, to Heinrich Koppers G.m.b.H. Fluid heating process and apparatus. 3,150,865, 9–29–64, Cl. 263—19.

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Goenaga, Alvaro M., to Chas. Pfizer & Co., Inc. Inhibiting plant growth with 6-azauracil and salts thereof. 3,116,994, 1–7–64, Cl. 71—2.5.

Goepfert, Benjamin L.: *See*—
Shatto, Howard L., Jr., Dozier, and Goepfert. 3,154,854.

Goepfert, Benjamin L., to Shell Oil Co. Apparatus for handling pipe. 3,143,220, 8–4–64, Cl. 214—2.5.

Goepfert, George J., and E. C. Johns, to The Cincinnati Milling Machine Co. Method of making cold-molded abrasive wheel. 3,116,986, 1–7–64, Cl. 51—297.

Goepfert, George J., A. H. Frye, V. G. Soukup, and F. J. Buescher, to The Cincinnati Milling Machine Co. Preparation of Grignard reagents in predominantly hydrocarbon media. 3,140,321, 7–7–64, Cl. 260—665.

Goepfert, George J., F. H. Bratton, and F. U. Zolg, to The Cincinnati Milling Machine Co. Panel for printed circuits. 3,149,021, 9–15–64, Cl. 161—214.

Goepper, Donald I., and H. A. Wagner, to The Alvey-Ferguson Co. Drive for roller-type conveyor. 3,127,003, 3–31–64, Cl. 198—127.

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Goerrig, Dieter, W. Schabacher, and F. Schubert, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of boranates. 3,140,150, 7–7–64, Cl. 23—14.

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Goerz, David J., R. B. Neal, and K. B. Mallory, to United States of America, Atomic Energy Commission. Method and apparatus for phasing a linear accelerator. 3,147,396, 9–1–64, Cl. 315—5.42.

Goeschel, Heinz, and F. Burhorn, to Siemens-Schuckertwerke Aktiengesellschaft. Magnetohydrodynamic generator. 3,160,768, 12–8–64, Cl. 310—11.

Goeschel, Karl-Heinz R., and G. Perrin, to Daimler-Benz Aktiengesellschaft. Control arrangement for internal combustion engines. 3,129,795, 4–21–64, Cl. 192—.62.

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Goettl, Adam D., to McGraw-Edison Co. Evaporative cooler construction. 3,147,319, 9–1–64, Cl. 261—29.

Goettl, Adam D., to McGraw-Edison Co. Pad frame and rack construction. 3,150,210, 9–22–64, Cl. 261—96.

Goettl, Adam D. and J., to McGraw-Edison Co. Evaporative cooler and pad frame latch means therefor. 3,121,480, 2–18–64, Cl. 189—36.

Goettl, Henry D., and A. W. Bauer, to Goettl's Metal Products Co. Coat hanger bar. 3,120,309, 2–4–64, Cl. 211—123.

Goettl, John: *See*—
Goettl, Adam D. and J. 3,121,480.

Goettl, William H. Floating boat trailer. 3,124,259, 3–10–64, Cl. 214—84.

Goettl, William H. Heat pump and means for defrosting the outside coils thereof. 3,135,317, 6–2–64, Cl. 165—17.

Goettl, William H., and E. W. Moore. Air conditioning unit. 3,153,332, 10–20–64, Cl. 62—305.

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Goetz, Daniel A. and C. R., to Stylette Plastics, Inc. Connection between a metal leg structure and a plastic tray. 3,139,188, 6–30–64, Cl. 211—126.

Goetz, Ernest F., to General Electric Co. Externally adjustable rotating limit switch. 3,138,673, 6–23–64, Cl. 200—27.

Goetz, Frank M., to Bell Telephone Laboratories, Inc. Error-correcting systems. 3,155,818, 11–3–64, Cl. 235—153.

Goetz, Frank M., to Bell Telephone Laboratories, Inc. Error correcting system. 3,155,819, 11–3–64, Cl. 235—153.

Goetz, George. Lawn mower apparatus. 3,134,213, 5–26–64, Cl. 56—26.5.

Goetz, Robert L., to Inland Container Corp. Corner lock fibreboard container. 3,126,142, 3–24–64, Cl. 229—36.

Goetzberger, Adolf, to Clevite Corp. Semiconductive electron emissive device. 3,119,947, 1–28–64, Cl. 313—346.

Goetze, Gerhard W., to Westinghouse Electric Corp. Continuously variable permanent magnet for imaging purposes. 3,155,860, 11–3–64, Cl. 313—84.

Goetze, Gerhard W., and H. Kanter, to Westinghouse Electric Corp. Radiation image pickup tube. 3,128,406, 4–7–64, Cl. 313—65.

Goetze, Wolfgang, and E. Griebsch, to General Mills, Inc. Thixotropic agents and preparation thereof. 3,141,787, 7–21–64, Cl. 106—252.

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Frenzel, Manfred. 3,152,552.
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Mandlinger, Heinrich, and Kreuzer. 3,152,676.

Goetzmann, William M., Jr. Balloon mounted antenna with reeling and storage container. 3,142,063, 7–21–64, Cl. 343—706.

Goewey, George E. Supporting device. 3,160,378, 12–8–64, Cl. 248—61.

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Goffe, Charles A.: *See*—
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Joly, Robert, Warnant, Jolly, Guillemette, and Goffinet. 3,129,219.
Snozzi, Candido, Goffinet, Joly, and Jolly. 3,117,142.

Goffinet, Bernard, G. Muller, C. Plotka, R. Jequier, and L. Velluz, to Roussel-UCLAF, S.A. Method of reducing hyperlipemia by 11β,17β-dihydroxy 17α-ethynyl-$\Delta^{1,4}$-androstadiene-3-one. 3,127,314, 3–31–64, Cl. 167—65.

Goffinet, Edward P., Jr., to E. I. du Pont de Nemours and Co. Process for making acetylene. 3,161,695, 12–15–64, Cl. 260—679.

Gofman, John W.: *See*—
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Seaborg, Glenn T., Gofman, and Stoughton. 3,123,535.

Gogan, Joseph. Method and apparatus for treating springs. 3,120,306, 2–4–64, Cl. 209—79.

Gogan, Joseph. Bar quenching machine. 3,149,189, 9–15–64, Cl. 266—6.

Goggi, Charles P., to Goggi Corp. Apparatus and method for recovering engine drainage. 3,128,748, 4–14–64, Cl. 123—73.

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Goggi, Charles P. 3,128,748.

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Göhmann, Karl. Transport container with removable undercarriage or truck. 3,125,353, 3–17–64, Cl. 280—179.

Gohmann, Karl. Transport containers. 3,154,316, 10–27–64, Cl. 280—103.

Gohorel, Fernand P., to International Standard Electric Corp. Telephonic systems. 3,121,141, 2–11–64, Cl. 179—18.

Gohring, John E. and W. R., to American Fastener Corp. Machine for applying metal fasteners to flexible containers. 3,131,398, 5–5–64, Cl. 1—329.

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Gohring, John E. and W. R. 3,131,398.

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Golay, Donaven E., to Golay & Co., Inc. Bulk feed storage and dispenser. 3,135,436, 6–2–64, Cl. 222—328.
Golay, Marcel J. E. Aligning means and optical system for radiation detectors. 3,155,828, 11–3–64, Cl. 250—83.3.
Gold, Allan R., and G. M. Baumann, to Ziff-Davis Publishing Co. Attenuator spraying device. 3,125,296, 3–17–64, Cl. 239—216.
Gold, Charles M., to Yardney International Corp. Deferred-action battery diaphragm-rupturing device. 3,132,974, 5–12–64, Cl. 136—90.
Gold, Daniel H., to American Cyanamid Co. Crystallizing 2,2′-dithiobisbenzothiazole. 3,126,394, 3–24–64, Cl. 260—306.5.
Gold, David, to Irving Air Chute Co., Inc. Quick divestible parachute harness. 3,154,272, 10–27–64, Cl. 244—151.
Gold, Heinrich, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of N,N′-tetra-substituted 3-amino-2-azaprop-2-en-1-ylidene ammonium halides. 3,155,-651, 11–3–64, Cl. 260—240.
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Gold, Nicholas: *See*—
Land, Edwin H., Gold, and Sable. 3,152,531.
Gold, Nicholas, to Polaroid Corp. Apparatus for treating photographic sheet materials with a processing fluid. 3,120,794, 2–11–64, Cl. 95—89.
Gold, Nicholas, and A. J. Sable, to Polaroid Corp. Self-developing camera. 3,134,313, 5–26–64, Cl. 95—13.
Gold, Nicholas, and A. J. Sable, to Polaroid Corp. Photographic light source. 3,139,018, 6–30–64, Cl. 95—77.5.
Gold, Nicholas, and A. J. Sable, to Polaroid Corp. Photographic document-copying apparatus. 3,147,684, 9–8–64, Cl. 95—75.
Gold, Robert L., and S. Schnell, to Wagner Electric Corp. Retarder valve and brake system. 3,118,706, 1–21–64, Cl. 303—6.
Gold, Robert L., and S. Schnell, to Wagner Electric Corp. Retarder valve. 3,118,708, 1–21–64, Cl. 303—40.
Gold, Samuel, C. D. Marotta, and M. A. Kuclar, ½ to National Starch and Chemical Corp., and ½ to Birge Co., Inc. Process for making remoistenable adhesive coatings and products resulting therefrom. 3,122,446, 2–25–64, Cl. 117—62.1.
Gold, Theodore, to Sperry Rand Corp. Flight control systems. 3,128,623, 4–14–64, Cl. 73—178.
Gold, Theodore, to Sperry Rand Corp. Aircraft performance monitoring apparatus. 3,148,540, 9–15–64, Cl. 73—178.
Gold, Vance B., to American Can Co. Body maker and method. 3,117,214, 1–7–64, Cl. 219—64.
Goldann, Karl, to Bohme Fettchemie G.m.b.H. Method for the manufacture of alkali metal or alkaline earth metal sulphates of high-molecular, unsaturated fatty alcohols. 3,120,552, 2–4–64, Cl. 260—459.
Goldbeck, Bernard H., and V. V. D'Amato, to The A. C. Gilbert Co. Spreadable coupler for HO gage model railroad vehicles. 3,140,784, 7–14–64, Cl. 213—75.
Goldberg, Abraham A.: *See*—
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Goldberg, Abraham A., to Columbia Broadcasting System, Inc. Apparatus for recording a modulated carrier upon film. 3,151,215, 9–29–64, Cl. 178—6.7.
Goldberg, Alan A., and H. J. Smith, to The Pyrethrum Board of Kenya. Production of purified pyrethrum extract. 3,133,004, 5–12–64, Cl. 202—52.
Goldberg, Albert I.: *See*—
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Goldberg, Albert I., J. Fertig, and M. Skoultchi, to National Starch and Chemical Corp. Ethylenically unsaturated derivatives of ortho-dihydric phenols. 3,156,720, 11–10–64, Cl. 260—486.
Goldberg, Albert I., M. Skoultchi, and J. Fertig, to National Starch and Chemical Corp. Ethylenically unsaturated derivatives of 2,4-dihydroxybenzophenone. 3,162,676, 12–22–64, Cl. 260—486.
Goldberg, Bernard, to United States of America, Army. Frequency shift transmission system. 3,117,305, 1–7–64, Cl. 340—171.
Goldberg, Eugene P., to General Electric Co. Resinous compositions. 3,157,622, 11–17–64, Cl. 260—77.5.
Goldberg, Eugene P., to General Electric Co. Resinous copolymeric polycarbonate of a mixture of dihydric phenols. 3,161,615, 12–15–64, Cl. 260—47.
Goldberg, Harold D. and M. I. Method and apparatus utilizing a conductor loop in a magnetic field for measuring areas and related quantities. 3,142,796, 7–28–64, Cl. 324—71.
Goldberg, Harry, 15% to, R. Kelton, 7.50% to, H. R. Levin, 7.50% to G. C. Hashizaki, and 1.25% to, G. Evans. Automatic pocket pressing machine. 3,152,736, 10–13–64, Cl. 223—38.
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Goldberg, Martin, to Olin Mathieson Chemical Corp. Stable compositions of alkali metal salts of synthetic penicillins and polyacetic acids. 3,141,822, 7–21–64, Cl. 167—65.
Goldberg, Max. Servo-mechanisms. 3,130,597, 4–28–64, Cl. 74—388.
Goldberg, Max, and R. Garwin. Die cutting press. 3,149,-523, 9–22–64, Cl. 83—534.
Goldberg, Milton I.: *See*—
Goldberg, Harold D. and M. I. 3,142,796.
Goldberg, Moses W.: *See*—
Berger, Julius, Goldberg, Müller, and Sternbach. 3,118,813.
Goldberg, Moses W., and M. Müller, to Hoffmann-La Roche Inc. N-(α-methyl-2,4-dichlorophenethyl) hydroxylamine and its salts. 3,118,933, 1–21–64, Cl. 260—501.
Goldberg, Moses W., and L. M. Jampolsky, to Hoffman-La Roche Inc. Phenanthrene carboxamides and derivatives thereof. 3,123,611, 3–3–64, Cl. 260—294.7.
Goldberg, Moshe. Device for holding and delivering coins. 3,136,322, 6–9–64, Cl. 133—5.
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Goldberger, Richard H. Process of uniformly blending finely divided cement, sand and pigment. 3,152,793, 10–13–64, Cl. 259—146.
Goldbohm, Erich. Antenna array and simultaneous lobing tracking system. 3,136,993, 6–9–64, Cl. 343—7.4.
Golde, Dimitri, to Le Chassis Metallique Belge "Chamebel" Societe Anonyme. Roller blind mountings. 3,163,204, 12–29–64, Cl. 160—26.
Golde, H. T., G.m.b.H., & Co., K.G.: *See*—
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Werner, Johannes. 3,163,054.
Golde, Hans. Manually operable device for operating a sliding roof. 3,148,913, 9–15–64, Cl. 296—137.
Goldemberg, Robert L., and H. Akrongold, to Shulton, Inc. Cold wave lotion package. 3,141,825, 7–21–64, Cl. 167—87.1.
Golden Arrow Mfg. Ltd.: *See*—
Palmer, John E. 3,117,725.
Golden, Carl E. Liquid petroleum gas vaporizer. 3,153,439, 10–20–64, Cl. 158—53.
Golden, John T. Quick opening oil saver. 3,116,930, 1–7–64, Cl. 277—66.
Golden, Kenneth E., to Sawyers, Inc. Slide projector. 3,130,637, 4–28–64, Cl. 88—28.
Golden, Louis D., to Caterpillar Tractor Co. Two turn inductor block with integral quench. 3,143,628, 8–4–64, Cl. 219—10.49.
Golden, Norman R. Cutting tooth. 3,153,867, 10–27–64, Cl. 37—191.
Golden, Robert K., to International Business Machines Corp. Magnetic core analog to digital converter. 3,123,817, 3–3–64, Cl. 340—347.
Golden, Ruben L. Jarring tool. 3,139,933, 7–7–64, Cl. 166—178.
Goldenberg, Max. Servo-mechanisms. 3,130,597, 4–28–64, Cl. 74—388.
Golden Shore Seafoods, Inc.: *See*—
Lewis, Samuel L. 3,135,190.
Goldfarb, Adolph E. Calculator. 3,127,686, 4–7–64, Cl. 35—31.
Goldfarb, Adolph E. Toy paper bursting gun. 3,135,067, 6–2–64, Cl. 46—195.
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Shapland, John S., and Goldfarb. 3,125,423.
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Goldfarb, Stanley. Convertible hobby horse. 3,161,417, 12–15–64, Cl. 280—7.1.
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Holowaty, Michael O., Sheets, and Goldfein. 3,151,844.
Goldfischer, Lester I., to General Precision, Inc. Aircraft doppler measuring system. 3,134,102, 5–19–64, Cl. 343—9.
Goldfischer, Lester I., D. H. Grossman, and R. M. Pincus, to General Precision, Inc. Adjustable beat frequency oscillator having multiple frequency outputs. 3,134,081, 5–19–64, Cl. 331—38.
Goldfischer, Lester I., S. K. Benjamin, and R. M. Pincus, to General Precision, Inc. Doppler frequency tracker. 3,139,-618, 6–30–64, Cl. 343—9.
Goldhaft, Tevis M., and N. E. Wernicoff, to Vineland Poultry Laboratories. Method of introducing adjuvants into avian egg interiors. 3,120,834, 2–11–64, Cl. 119—1.
Goldich, David E., to The Permalux Co. Liquid dispenser. 3,161,904, 12–22–64, Cl. 15—528.
Golding, Frank E.: *See*—
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Golding, William F. Apparatus for separating waste and work in cut sheets. 3,117,499, 1–14–64, Cl. 93—36.
Golding, William F. Apparatus for converting oscillating into intermittent motion. 3,124,964, 3–17–64, Cl. 74—88.
Goldingay, Charles H., to Joseph Lucas (Industries) Ltd. Means for closing the filling orifices of electric storage batteries. 3,161,548, 12–15–64, Cl. 136—177.
Goldkamp, Arthur H., to G. D. Searle & Co. 4-chloro-6-(hydroxyamino)-1,3-benzenedisulfonamides and intermediate. 3,125,589, 3–17–64, Cl. 260—397.7.
Goldkamp, Arthur H., to G. D. Searle & Co. 3,17-bisoxygenated 16α,16β-difluoroandrostenes and process. 3,148,198, 9–8–64, Cl. 260—397.3.
Goldman, Alan L., to General Precision, Inc. Parallel parity checker. 3,150,350, 9–22–64, Cl. 340—146.1.
Goldman, Arthur J., and G. Breidenbach, to United States of America, Atomic Energy Commission. Steam-water mixing device for steam-cooled reactor. 3,150,053, 9–22–64, Cl. 176—54.
Goldman, Edward J., and L. C. Babb, to Walworth Co. Gas valves. 3,133,723, 5–19–64, Cl. 251—309.
Goldman, Henry, to Shepard Airtronics, Inc. Button assembly for pilot's helmet. 3,117,322, 1–14–64, Cl. 2—6.

Goldman, Isidore. Positioning swivel for revolver holsters. 3,117,708, 1–14–64, Cl. 224—2.

Goldman, Jerome N. and M. A. Aquariums and three-dimensional display therefor. 3,121,417, 2–18–64, Cl. 119—5.

Goldman, Joshua. Apparatus for converting a tubular web to a flat web. 3,132,986, 5–12–64, Cl. 156—427.

Goldman, Lawrence, and H. E. Weller, to Western Electric Co., Inc. Apparatus for continuously moving a strand through an extruder at a constant speed. 3,163,372, 12–29–64, Cl. 242—47.08.

Goldman, Leon: *See*—
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Goldman, Martin, to Ratsey Safety Belts, Inc. Seat belt buckle. 3,147,530, 9–8–64, Cl. 24—230.

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Goldman, Max, and M. Wallenfels, to E. I. du Pont de Nemours and Co. Process of treating polymeric film. 3,141,-912, 7–21–64, Cl. 264—95.

Goldman, Percy. Water sweeper attachment for garden hose. 3,144,211, 8–11–64, Cl. 239—532.

Goldman, Sanford D. Continuous dental matrix unit. 3,147,-552, 9–8–64, Cl. 32—63.

Goldman, Tibor Z. Periscopic rear view apparatus for vehicles. 3,127,191, 3–31–64, Cl. 280—87.

Goldmark, Peter C., to United States of America, Navy. Automatic jamming system. 3,142,060, 7–21–64, Cl. 343—18.

Goldmuntz, Lawrence, to TRG, Inc. Fixed tracker radar system. 3,153,233, 10–13–64, Cl. 343—8.

Goldner, Artur: *See*—
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Goldner, George R.: *See*—
Herr, Richard F., and Goldner. 3,145,891.

Goldrosen, David. Package for plastic articles. 3,136,416, 6–9–64, Cl. 206—56.

Goldsborough, James M. Machine and method for making ice. 3,130,556, 4–28–64, Cl. 62—73.

Goldsby, Arthur R., D. K. Beavon, and H. Flynn, to Texaco Inc. Alkylation process. 3,121,126, 2–11–64, Cl. 260—683.62.

Goldschmidt, Eric N., to Warner-Lambert Pharmaceutical Co. 5-(4-biphenyiyl)-3-methylvaleric acid and functional derivatives thereof. 3,120,551, 2–4–64, Cl. 260—455.

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Goldsmith, Edwin A., to California Research Corp. Hydrodealkylation of alkylbenzenes. 3,151,175, 9–29–64, Cl. 260—672.

Goldsmith, Henry A., to Purex Corp. Process and device for detecting the intensity of ultrasonic energy. 3,134,728, 5–26–64, Cl. 204—1.

Goldsmith, Henry A., and R. B. Roessler, to Purex Corp., Ltd. Coating remover composition. 3,138,556, 6–23–64, Cl. 252—136.

Goldsmith, Paul H., to International Harvester Co. Transmission control mechanism. 3,122,941, 3–3–64, Cl. 74—473.

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Goldstein, Arnold. Illumination diffuser construction. 3,124,-308, 3–10–64, Cl. 240—46.01.

Goldstein, Arthur. Electrical radiant panel heater. 3,153,138, 10–13–64, Cl. 219—34.

Goldstein, Arthur M., and E. N. Alter, to Stein, Hall & Co., Inc. Stabilized galactomannan gum solutions and process. 3,146,200, 8–25–64, Cl. 252—8.5.

Goldstein, Daniel, to Schenley Industries, Inc. Combination shipping container and display device. 3,123,207, 3–3–64, Cl. 206—44.

Goldstein, Daniel, to Schenley Industries, Inc. Combined container for bottles and advertising display. 3,133,632, 5–19–64, Cl. 206—44.

Goldstein, Daniel, to Schenley Industries, Inc. Combination shipping container and display device. 3,152,687, 10–13–64, Cl. 206—44.

Goldstein, Daniel, to Schenley Industries, Inc. Ornamental package. 3,153,503, 10–20–64, Cl. 229—8.

Goldstein, David J., and S. S. Grimley, to Canadian Industries Ltd. Viscosity compensated flowmeter. 3,143,880, 8–11–64, Cl. 73—205.

Goldstein, George. Wrist band key holder. 3,119,249, 1–28–64, Cl. 70—456.

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Goldstein, Irving S., and W. J. Oberley, to Koppers Co., Inc. Proess for making plywood. 3,137,607, 6–16–64, Cl. 156—281.

Goldstein, Irving S., and W. A. Dreher, to Koppers Co., Inc. Method of imparting fire retardance to wood and the resulting product. 3,159,503, 12–1–64, Cl. 117—137.

Goldstein, Irving S., and W. J. Oberley, to Koppers Co., Inc. Method of treating wood with an improved fire retardant composition. 3,160,515, 12–8–64, Cl. 117—62.1.

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Goldstein, Lester, L. Joseph, M. S. Silberstein, and A. A. Weinstein, to United States of America, Atomic Energy Commission. Nuclear reactor. 3,149,043, 9–15–64, Cl. 176—17.

Goldstein, Mark to Container Corp of America. Web-corner carton with integral cover. 3,156,403, 11–10–64, Cl. 229—31.

Goldstein, Milton. Method and apparatus for inserting resilient rods into flexible tubes. 3,139,677, 7–7–64, Cl. 29—451.

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Goldstone, Edward G., to Allen Industries, Inc. Apparatus for edge-turning of covers on door panels. 3,146,150, 8–25–64, Cl. 156—444.

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Goldtrap, Charley L., to Twentieth Century Products Corp. Toilet tank supply valve assembly. 3,144,875, 8–18–64, Cl. 137—414.

Goldwater, Robert, and F. B. Calhoun, to Safeway Stores, Inc. Store ordering system and apparatus. Re. 25,600, 6–16–64, Cl. 178—4.

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Golightly, James S., D. H. Doehlert, and C. R. Davidson, Jr., to Pittsburgh Plate Glass Co. Apparatus for bending glass sheets to compound curvatures. 3,161,493, 12–15–64, Cl. 65—158.

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Göltner, Wolfgang, and P. Schlack, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Brüning. Process for the manufacture of acrolein copolymers. 3,-136,742, 6–9–64, Cl. 260—73.

Golub, Samuel J., and N. E. Silbert, to Activator Inc. Orally ingestible compositions and method of preparing same. 3,117,866, 1–14–64, Cl. 99—2.

Golucke, Karl, and F. Muller, to Klockner-Humboldt-Deutz Aktiengesellschaft. Method and apparatus for preheating of fine-grain material. 3,146,998, 9–1–64, Cl. 263—21.

Golumbo, Jerome J., and F. Realmuto, to David Wolf, Esq. Vending machine. 3,152,721, 10–13–64, Cl. 221—129.

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Goucz, John H., to Edgerton, Germeshausen & Grier, Inc. Faraday shield suppressor for secondary emission current in crossed electric and magnetic field electronic tubes. 3,148,298, 9–8–64, Cl. 313—106.
Gonda, Tibor, to International Business Machines Corp. Transmission line filter having coupling extending quarter wave length between strip line resonators. 3,142,808, 7–28–64, Cl. 333—73.
Gonda, Tibor, to International Business Machines Corp. Coupling between and through stacked circuit planes by means of aligned waveguide sections. 3,150,336, 9–22–64, Cl. 333—33.
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Gongoll, Vernon F., C. J. Boyer, and J. N. Simpson, to The Electric Storage Battery Co. Ear protector. 3,122,613, 2–25–64, Cl. 179—182.
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Gongwer, Calvin A., to Aerojet-General Corp. Multiple disc valve. 3,133,557, 5–19–64, Cl. 137—512.1.
Gongwer, Calvin A., to Aerojet-General Corp. Space capsule. 3,137,290, 6–16–64, Cl. 128—1.
Gonia, August T., H. H. Fante, and M. J. Shepard, to Rockwell Standard Corp. Method of and apparatus for bending preformed formed wire strips. 3,141,481, 7–21–64, Cl. 140—71.
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Gonski, Joseph, and J. S. Newton, to Goodman Mfg. Co. Scroll type continuous mining machine. 3,121,558, 2,18–64, Cl. 262—19.
Gontcharuk, Joseph. Snow disposal apparatus. 3,150,660, 9–29–64, Cl. 126—343.5.
Gonzalez, Frank A. Rotary internal combustion engine. 3,155,081, 11–3–64, Cl. 123—15.
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Gooch, Fred P., to Pennsalt Chemicals Corp. Pusher-type centrifuge. 3,136,722, 6–9–64, Cl. 210—376.
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Good, Raymond J. Bird cage means. 3,138,139, 6–23–64, Cl. 119—26.
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Goodman, David M. Radar display for collision warning device and navigational aid. 3,134,975, 5–26–64, Cl. 343—11.

Goodman, Earl W. Transformer terminal mounting assembly. 3,150,230, 9–22–64, Cl. 174—59.

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Gordon, Ralph R. Positioning system and its control. 3,157,986, 11–24–64, Cl. 60—10.5.

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Gorham, William F., and A. G. Farnham, to Union Carbide Corp. Compositions comprising ethylene homopolymer and ethylene-styrene copolymer and method of preparing same. 3,117,946, 1–14–64, Cl. 260—45.5.

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Gorin, Everett, to Consolidation Coal Co. Process for producing liquid fuels from coal. 3,162,594, 12–22–64, Cl. 208—57.

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Gorman, Gerald W. Seal. 3,123,365, 3–3–64, Cl. 277—83.

Gorman, James G., and A. C. Buckland, to American Cyanamid Co. Process for recovery of catalyst in acrylonitrile synthesis. 3,149,149, 9–15–64, Cl. 260—465.3.

Gorman-Rupp Industries, Inc.: *See*—
Schmitt-Matzen, John G. 3,129,711.
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Gorman, William G.: *See*—
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Gorman, William G., to Sterling Drug Inc. Aerosol valve having a metering gasket. 3,117,700, 1–14–64, Cl. 222—394.

Gorman, William G., to Sterling Drug Inc. Metered aerosol valve. 3,123,261, 3–3–64, Cl. 222—394.

Gorman, William G., to Sterling Drug Inc. Metered valve construction. 3,128,924, 4–14–64, Cl. 222—394.

Gorman, William G., to Sterling Drug Inc. Valve constructions for aerosol containers. 3,135,437, 6–2–64, Cl. 222—394.

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Gormay, Lewis R., to Radio Corp. of America. Anode structure. 3,154,714, 10–27–64, Cl. 313—356.

Gormley, Harry L. Wire stripping tool having blades with aligning means. 3,151,509, 10–6–64, Cl. 81—9.5.

Gormley, William R.: *See*—
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Gornston, David, and W. Berg. Device for beating time to music. 3,122,961, 3–3–64, Cl. 84—484.

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Gorozpe, Raul D., to Corn Products Co. Method for preparing quick-cooking rice. 3,157,514, 11–17–64, Cl. 99—80.

Gorrell, John E., to Electronic Associates, Inc. Bar chart recording system having a plurality of preselected coded patterns. 3,161,455, 12–15–64, Cl. 346—45.

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Voegeli, Marvin M., and Gorsica. 3,154,423.

Gorsich, Richard D., to Ethyl Corp. Preparation of polyethylene using a catalyst containing mono-cyclopentadienyl titanium trichloride. 3,161,629, 12–15–64, Cl. 260—94.9.

Gorski, Michael, to Adlee Corp. Gear shifting mechanism. 3,130,596, 4–28–64, Cl. 74—365.

Gorski, Robert A., to E. I. du Pont de Nemours and Co. Fire extinguishing apparatus. 3,139,934, 7–7–64, Cl. 169—31.

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Gort, William J., to Koppers Co., Inc. Thermally insulating panels. 3,160,925, 12–15–64, Cl. 20—15.

Gorth, Edward J., Sr. Missal holder. 3,146,986, 9–1–64, Cl. 248—447.

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Gorton, Howard B.: *See*—
Fremstad, Viles K., and Gorton. 3,149,811.

Gorton's of Gloucester, Inc.: *See*—
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Gory, Frank A. Tile manufacturing machine. 3,122,812, 3–3–64, Cl. 25—43.

Gory, Frank A. Coating attachment for tile machine. 3,138,843, 6–30–64, Cl. 25—43.

Goshorn, Roland H., R. Ferren, and H. Q. Smith, to Pennsalt Chemicals Corp. Novel process for N-alkylmorpholines. 3,155,656, 11–3–64, Cl. 260—247.

Goslee, David E., L. Frank, and A. C. Pezzi, to Martin-Marietta Corp. Method of manufacturing nuclear reactor fuel elements. 3,139,681, 7–7–64, Cl. 29—474.3.

Gosmann, Enart, to Western Electric Co., Inc. Visual aid technique of presenting drawing changes. 3,161,510, 12–15–64, Cl. 96—43.

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Goss, Charles L., and L. C. Liptak, to Corning Glass Works. Infrared gas burner. 3,161,227, 12–15–64, Cl. 158—99.
Goss, Harry E. Automatic trap primer valve. 3,134,392, 5–26–64, Cl. 137—118.
Goss, John B. Hydraulic cleaning apparatus. 3,147,767, 9–8–64, Cl. 137—608.
Goss, Kenneth G., and W. E. Duryea, to Life Service, Inc. Medical history pocket folders. 3,117,608, 1–14–64, Cl. 150—35.
Goss, Willis C., and L. F. Gilley, to United States of America, Atomic Energy Commission. High speed Kerr cell framing camera. 3,116,660, 1–7–64, Cl. 88—16.
Goss, Worth C., to Gossol, Inc. Preparation of lignosulfonate resins. 3,141,873, 7–21–64, Cl. 260—124.
Goss, Worth C. Fiberboard containing a thermosetting resin derived from waste sulphite liquor and process of making same. 3,159,528, 12–1–64, Cl. 162—163.
Gossel, Dieter, to North American Philips Co., Inc. Digital system for the control of components of a mixture. 3,154,-670, 10–27–64, Cl. 235—92.
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Gossett, Earl C., to Sinclair Research, Inc. Method of removing metals from petroleum hydrocarbons. 3,117,078, 1–7–64, Cl. 208—251.
Gossett, Earl C., to Sinclair Research, Inc. Process for cracking a residual oil containing metallic impurities. 3,146,-188, 8–25–64, Cl. 208—73.
Gossol, Inc.: *See*—
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Gossweiler, Rudolf. Orthopedic foot support. 3,120,231, 2–4–64, Cl. 128—581.
Gostomski, Frank T. Rear end loader. 3,127,999, 4–7–64, Cl. 214—140.
Gostovich, Nick. Shouldering machine. 3,131,616, 5–5–64, Cl. 94—46.
Gostyn, Ernest, to General Instrument Corp. Width controlling means for cathode ray tube display. 3,162,791, 12–22–64, Cl. 37—200.
Gostyn, Ernest, and B. B. Chasens, to General Instrument Corp. Correcting magnetic arrangement for deflection yokes. 3,152,292, 10–6–64, Cl. 317—200.
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Duner, Viking N. C. 3,127,817.
Jericijo, Boris. 3,149,604.
Näsholm, Karl A. 3,127,596.
Sjostrom, Rainer V. A. 3,127,925.
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Gotcher, James W., Sr., and J. W. Gotcher, Jr. Burner carrier for flame cultivators. 3,137,289, 6–16–64, Cl. 126—271.2.
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McGow, Thomas C., Gotham, Sebastian, and Cooper. 3,146,874.
McGow, Thomas C., Schneider, and Gotham. 3,146,875.
Göthberg, Karl E. A., and S.-E. Malmstrom, to Svenska Kullagerfabriken, Aktiebolaget. Roller bearing. 3,122,400, 2–25–64, Cl. 308—217.
Gothreau, John R. Automatic dispenser of individual flat sheets from a stack. 3,117,694, 1–14–64, Cl. 221—23.
Goto, Asahiko, to Kobe Steel Works, Ltd. Bonded structure for tubular or cylindrical bodies. 3,136,610, 6–9–64, Cl. 29—183.
Goto, Asahiko, to Kobe Steel Works, Ltd. Titanium or zirconium lining structure. 3,148,953, 9–15–64, Cl. 29—191.
Goto, Eiichi, to Zaidan Hojin Parametron Kenkyuyo (known as Parametron Institute). Dynamic storage circuit utilizing two tunnel diodes and reflective delay line. 3,138,723, 6–23–64, Cl. 307—88.5.
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Imiai, Mitsuo, Nakayama, Goto, Shimanaka, Tsuruoka, Matoba, Onot, and Kamada. 3,157,538.
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Gotte, Ernst, and A. Kirstahler, to Bohme Fettchemie G.m.b.H. Process for the separation of suspended particles from gases. 3,155,470, 11–3–64, Cl. 55—97.
Gottesleben, Alvin H., to Twin Pane Corp. Window construction. 3,152,369, 10–13–64, Cl. 20—56.5.
Gottesman, Roy T., to Heyden Newport Chemical Corp. Herbicidal compositions. 3,123,461, 3–3–64, Cl. 71—2.5.
Gottfried Bischoff Bau Kompl. Gasreinigungs-u Wasserruckkuhlanlagen K.G.: *See*—
Hausberg, Gerhard. 3,140,163.
Gottfried, Louis, and J. Berger. Frame of a canopy for a stroller or the like. 3,135,546, 6–2–64, Cl. 296—102.
Gottfried, Max, to Jobst Institute, Inc. Pressure bandage-splint. 3,153,413, 10–20–64, Cl. 128—165.
Gottily, Arthur L.: *See*—
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Gottily, Arthur L., to Monsanto Chemical Co. Yarn shipping package. 3,124,242, 3–10–64, Cl. 206—46.
Gottlieb, Bernard. Lamp shade and method of making same. 3,161,358, 12–15–64, Cl. 240—108.
Gottlieb, Nathan, to American Optical Co. Optical projector lens systems. 3,127,810, 4–7–64, Cl. 88—24.
Gottlieb, Robert. Play pen. 3,158,876, 12–1–64, Cl. 5—99.
Gottlieb, Robert. Adjustable gate. 3,163,205, 12–29–64, Cl. 160—216.
Gottschal, Auko J., S. F. Spearman, S. G. Wiechers, and J. R. Wilson, to South African Council for Scientific and Industrial Research. Electrodialysis apparatus. 3,149,-062, 9–15–64, Cl. 204—301.
Gottschald, Rudolf, to A. Ehrenreich & Cie. Ball joints. 3,119,634, 1–28–64, Cl. 287—87.
Gottschald, Rudolf, to Viktor Langen. Ball and socket joints. 3,155,406, 11–3–64, Cl. 287—87.
Gottschald, Rudolf, to A. Ehrenreich & Cie. Ball and socket joints. 3,155,407, 11–3–64, Cl. 287—87.
Gottschald, Rudolf, to V. Langen. Ball and socket joints. 3,160,430, 12–8–64, Cl. 278—87.
Gottschalk, Michael. Wallet protector. 3,126,598, 3–31–64, Cl. 24—3.
Gottschalk, Roy F., to Chemetron Corp. Process and apparatus for treating molten metals. 3,159,478, 12–1–64, Cl. 75—93.
Gottschalk, William H., to B-D Laboratories, Inc. Hypodermic assembly. 3,118,448, 1–21–64, Cl. 128—218.
Gottschalk, William, Jr.: *See*—
Macintosh, Charles, and Gottschalk. 3,150,766.
Gottschall, Herbert A. Rectilinear potentiometer. 3,139,-602, 6–30–64, Cl. 338—176.
Gottschall, Paul P., and C. L. Grebe, to United States Steel Corp. Apparatus for evaluating strip material. 3,160,741, 12–8–64, Cl. 235—92.
Gottscho, Adolph, Inc.: *See*—
Clark, Winslow T. 3,120,177.
Gottscho, Ira S., and Talarico. 3,116,684.
Gottscho, Ira S., and Talarico. 3,120,176.
Gottscho, Ira S., and Talarico. 3,154,011.
Talarico, Lawrence J. 3,128,692.
Worth, Francis C. 3,138,098.
Worth, Francis C. 3,146,698.
Gottscho, Ira S., and L. J. Talarico, to Adolph Gottscho, Inc. Marking apparatus. 3,116,684, 1–7–64, Cl. 101—35.
Gottscho, Ira S., and L. J. Talarico, to Adolph Gottscho, Inc. Carton marking machines. 3,120,176, 2–4–64, Cl. 101—37.
Gottscho, Ira S., and L. J. Talarico, to Adolph Gottscho, Inc. Rotary web feeding and marking apparatus. 3,154,011, 10–27–64, Cl. 101—228.
Gottsegen, Marten, to Gotham Industries, Inc. Combination vehicular and portable insulated food and beverage container. 3,163,338, 12–29–64, Cl. 224—42.01.
Gottula, Gerard W. Fishing rod protector. 3,131,503, 5–5–64, Cl. 43—26.
Gottula, Gerard W. Fishing rod container. 3,138,891, 6–30–64, Cl. 43—26.
Gottwik, Carl K., to The Wilson Rubber Co. Glove assembly. 3,140,495, 7–14–64, Cl. 2—270.
Gottzmann, Christian F.: *See*—
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Gottzmann, Christian F., to Union Carbide Corp. High-pressure pump for cryogenic fluids. 3,136,136, 6–9–64, Cl. 62—55.
Gottzmann, Christian F., to Union Carbide Corp. Cryogenic pump sealing rings. 3,145,629, 8–25–64, Cl. 92—155.
Gotwald, David E. S., Jr., and C. J. Munchel, to The Dentists' Supply Co. of New York. High speed tool. 3,157,384, 11–17–64, Cl. 253—2.
Gotz, Wolfgang, and H. Günther to VEB Carl Zeiss Jena. Crystal holder for X-ray monochromators. 3,126,478, 3–24–64, Cl. 250—51.
Götze, Erich, to Zeiss Ikon Aktiengesellschaft. Projection lamp with air cooling. 3,120,928, 2–11–64, Cl. 240—47.
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Gouba, Alfred J. Link cutting machine. 3,156,006, 11–10–64, Cl. 17—1.
Goudey, Alan: *See*—
Klein, Martin L., and Goudey. 3,146,617.
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Goudy, William E., to Armco Steel Corp. Rotary hydraulic power devices. 3,118,279, 1–21–64, Cl. 60—54.
Gough, Bernard A., and A. F. Baldwin, to Dunlop Tire and Rubber Corp. Apparatus for conveying and joining lengths of rubberized fabric. 3,141,805, 7–21–64, Cl. 156—353.
Gough, George L. Positioning table. 3,124,018, 3–10–64, Cl. 77—63.
Gough, Vernon E., and C. W. Barson, to Dunlop Rubber Co. Ltd. Apparatus for testing pneumatic tyres. 3,142,178, 7–28–64, Cl. 73—146.
Gouin, Paulette, (nee Gouin). Collapsible strut. 3,125,352, 3–17–64, Cl. 280—150.5.
Gould, Albert W. Kite construction. 3,116,902, 1–7–64, Cl. 244—153.
Gould, Arthur S., and P. Nathanson, to The Dow Chemical Co. Dust cloth. 3,144,671, 8–18–64, Cl. 15—1.5.
Gould, Charles T.: *See*—
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Reimann, Hans, and Gould. 3,131,200.
Gould, David H., and E. L. Shapiro, to Schering Corp. 6,7-dihalogenated corticoids. 3,148,184, 9–8–64, Cl. 260—239.55.
Gould, Harold W., to Crane Packing Co. Joint seal for split packing. 3,120,394, 2–4–64, Cl. 277—124.
Gould, Herbert H., and N. F. Toda, to Sperry Rand Corp. Temperature gradient attenuating device. 3,129,755, 4–21–64, Cl. 165—89.
Gould, Herbert J. Vapor phase crystallization. 3,121,062, 2–11–64, Cl. 252—62.3.
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Gould, Ira L., to General Motors Corp. Refrigerating apparatus with defrost control means. 3,125,862, 3–24–64, Cl. 62—156.
Gould, Jack R., to Thiokol Chemical Corp. Rocket propulsion method using iron pentacarbonyl additive. 3,150,482, 9–29–64, Cl. 60—35.4.
Gould, Jack R., and R. A. Smith, to Stauffer Chemical Co. Process of making tetrafluorohydrazine and fluorocarbons. 3,122,416, 2–25–64, Cl. 23—205.
Gould, Lawrence A.: *See*—
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Gould, Lincoln E., to Shell Oil Co. Soil treating apparatus. 3,148,642, 9–15–64, Cl. 111—7.
Gould, Lincoln E., to Shell Oil Co. Soil treating method. 3,158,958, 12–1–64, Cl. 47—58.
Gould, Lyle D. Fishing rod holder. 3,162,970, 12–29–64, Cl. 43—21.2.
Gould, Max R., and D. L. Swartz, to The Quaker Oats Co. Process for precooking a substantially water-insoluble farinaceous product. 3,133,818, 5–19–64, Cl. 99—80.
Gould, Melvin: *See*—
Slater, Thomas S., and Gould. 3,140,344.
Gould, Merle L.: *See*—
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Gould, Richard E., to General Motors Corp. Refrigerating apparatus. 3,146,601, 9–1–64, Cl. 62—3.
Gould, Richard E., to General Motors Corp. Filter for a dry cleaning apparatus. 3,156,647, 11–10–64, Cl. 210—209.
Gould, Richard E., and J. W. Jacobs, to General Motors Corp. Flask electric surface element control. 3,127,498, 3–31–64, Cl. 219—20.
Gould, Russell D., and J. E. Richter. Tree shaker. 3,120,091, 2–4–64, Cl. 56—328.
Gould, Thomas R., and C. D. Simmers, to Johns-Manville Corp. Process and apparatus for cleaning, separating and felting fibrous materials. 3,133,319, 5–19–64, Cl. 19—205.
Gould, Thomas R., W. P. Hahn, D. O. Coleman, and C. D. Simmers, to Johns-Manville Corp. Process and apparatus for opening and cleaning fibrous material. 3,142,869, 8–4–64, Cl. 19—205.
Gould, William A.: *See*—
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Wu, Yao H., Feldkamp, and Gould. 3,118,907.
Wu, Yao H., Feldkamp and Gould. 3,127,415.
Gould, William A., to Mead Johnson & Co. 3-substituted-3-pyrrolidinols. 3,135,766, 6–2–64, Cl. 260—326.5.
Gould, William A., and J. A. La Budde. Oxy-phenyl-2-(1-methyl-2-phenoxyethylamino)-alkanols. 3,155,726, 11–3–64, Cl. 260—570.6.
Gould, William L.: *See*—
Ferguson, Edgar A., Jr. 3,118,890.
Goulden, John D. S., to National Research Development Corp. Method and apparatus for the analysis of emulsions and suspensions. 3,161,768, 12–15–64, Cl. 250—43.5.
Goulden, Osmund A. Vehicle transmission. 3,160,220, 12–8–64, Cl. 180—7.
Goulet, Ralph A., and T. S. Randolph, to United States of America, Navy. Bearing tester. 3,146,528, 9–1–64, Cl. 33—174.
Goulston, Arthur B. Process for preparing non-greasy fried comestibles. 3,127,271, 3–31–64, Cl. 99—100.
Gourley, Raymond C., to Dan River Mills, Inc. Machine and method for making paper yarn. 3,131,527, 5–5–64, Cl. 57—32.
Gourlie, Larry C., to Boise-Cascade Corp. Automatic concrete pipe molding machine for belled pipe. 3,119,165, 1–28–64, Cl. 25—30.
Gourjon, Marie L. E. P. A., to Compagnie des Engins Hydromecaniques de Chantiers (C.H.O.C.). Mechanical shovel capable of working as a lifting device or loader. 3,148,789, 9–15–64, Cl. 214—140.
Gouttebel, Raymond: *See*—
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McClellan, Robert S., and Adam. 3,148,864.
Gouzene, Pierre, to Compagnie de Saint-Gobain. Filter fabric and method of making it. 3,150,033, 9–22–64, Cl. 162—145.
Gouzou, Jacques, and J. Zaeytydt, to Centre National de Recherches Metallurgiques. Continuous casting apparatus and method. 3,118,195, 1–21–64, Cl. 22—57.2.
Govatsos, Charles A. Device for folding box blanks. 3,149,544, 9–22–64, Cl. 93—51.
Govatsos, Edward A., and W. H. Corey. Support bracket for toilet paper rolls. 3,157,370, 11–17–64, Cl. 242—55.2.
Gover, Russell D., ⅛ to J. K. Smith, and ⅛ to M. M. Wilson. Hand shears. 3,143,799, 8–11–64, Cl. 30—259.
Govin, Charles T.: *See*—
Adams, George L., and Govin. 3,118,509.
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Speidel, Louis, Jr., and Gow. 3,140,127.
Gow, James G., and J. Milner, to The Distillers Co. Ltd. Amino acids concentrate. 3,152,955, 10–13–64, Cl. 167—65.
Gowland, Douglas K., and C. W. Bobinette. Toy vehicle chassis and electric motor. 3,124,902, 3–17–64, Cl. 46—243.
Goy, Andor. Feeding mechanism for typewriting machines. 3,144,116, 8–11–64, Cl. 197—84.
Goyette, Francis H., to Lodding Engineering Corp. Water box for paper making machinery. 3,139,374, 6–30–64, Cl. 162—232.
Gozzo, Franco: *See*—
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Graafsma, Richard S., and C. R. Myers, to Auto Specialties Mfg. Co. Lifting jack. 3,159,381, 12–1–64, Cl. 254—100.
Grabau, Ebbe: See—
Grabau, William C. 3,127,553.
Grabau, William C., deceased; by E. Grabau, executrix, to Precision Control Corp. Control system for energizing a direct-current load from an alternating-current source. 3,127,553, 3–31–64, Cl. 321—39.
Grabauskas, Joseph J., to Union Carbide Corp. Apparatus for mixing viscous liquids. 3,150,862, 9–29–64, Cl. 259—9.
Grabczyk, Edward L., and E. H. Walsh, to Inland Steel Co. Edge scraping apparatus. 3,140,960, 7–14–64, Cl. 118—122.
Grabel, Irwin J.: *See*—
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Brown, Frank R., Grabel, and Rubenstein. 3,118,397.
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Graber, Armin E.: *See*—
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Graber, Carl D., and J. M. Bryant, to Diebold, Inc. Vault door construction. 3,139,046, 6–30–64, Cl. 109—59.
Graber, John N., to Graber Mfg. Co., Inc. Pulley hold-down for traverse rods. 3,123,351, 3–3–64, Cl. 267—71.
Graber, Joseph V., to Graber Mfg. Co., Inc. Drapery rod fixture. 3,134,132, 5–26–64, Cl. 16—94.
Graber Mfg. Co., Inc.: *See*—
Graber, John N. 3,123,351.
Graber, Joseph V. 3,134,132.
Graber, Robert P., and M. B. Meyers, to General Mills, Inc. Preparation of 6α,16α-dimethyl-17α-hydroxyprogesterone. 3,123,600, 3–3–64, Cl. 260—239.55.
Graber, Robert P., and M. B. Meyers, to General Mills, Inc. Preparation of 6α,16α-dialkyl substance S and acylates thereof. 3,123,624, 3–3–64, Cl. 260—397.47.
Graber, Robert P., and M. B. Meyers, to General Mills, Inc. Preparation of oxido steroids. 3,133,058, 5–12–64, Cl. 260—239.55.
Graber, Robert P., and M. B. Meyers, to General Mills, Inc. 17,20-oxido-6,16-dialkyl-pregnanes and process for the preparation thereof. 3,145,199, 8–18–64, Cl. 260—239.55.
Graber, Robert P., and L. G. Hickman, to General Mills, Inc. Preparation of 16-alkyl-16-dehydropregnenolone. 3,157,680, 11–17–64, Cl. 260—397.4.
Grabhofer, Herbert, H. Schüler, H. Ulrich, and A. Randolph, to Agfa Aktiengesellschaft. Developing accelerators for silver halide emulsion layers. 3,129,100, 4–14–64, Cl. 96—66.
Grabiel, Richard H. Instrument for inserting corneal lenses. 3,139,298, 6–30–64, Cl. 294—1.
Grable, Donovan B., to Gas Drilling Service Co. Well drilling apparatus. 3,151,690, 10–6–64, Cl. 175—321.
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Grabmaier, Josef, to Siemens & Halske Aktiengesellschaft. Apparatus for accurately controlling the production of semiconductor rods. 3,134,695. 5–26–64, Cl. 118—5.
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Granius, Emil J. Chord-forming attachment for stringed musical instrument. 3,129,626, 4–21–64, Cl. 84—317.
Granlund, Hakon. Tubular rivet connection. 3,127,201, 3–31–64, Cl. 287—20.3.
Granning, Ole, to Ole Granning Trailer Service Inc. Tandem suspension for tractors and trailers. 3,133,745, 5–19–64, Cl. 280—112.
Granning, Ole, Trailer Service Inc.: *See*—
Granning, Ole. 3,133,745.
Granozio, Enrico. Apparatus for producing asymmetrically corrugated strips of cardboard, and the like. 3,157,551, 11–17–64, Cl. 156—471.
Granquist, Charles L., and J. C. Lazanas, to The Standard Oil Co. Hexachlorophene composition and method for rendering natural bristle bacteriostatic. 3,162,572, 12–22–64, Cl. 167—38.7.
Granqvist, Carl-Erik, to Svenska Aktiebolaget Gasaccumulator. Apparatus for use in distance measurement. 3,130,-403, 4–21–64, Cl. 343—12.
Granqvist, Carl-Erik, to Svenska Aktiebolaget Gasacummulator. Arrangement in speaking radio beacons. 3,138,799, 6–23–64, Cl. 343—106.
Granqvist, Carl-Erik, to Svenska Aktiebolaget Gasaccumulator. Fixed antenna system for creating a rotational field. 3,153,238, 10–13–64, Cl. 343—106.
Granrud, Robert E.: *See*—
Olyphant, Murray, Jr. 3,135,344.
Granryd, Thorvald G., to The Frank G. Hough Co. Vehicle parking brake. 3,136,399, 6–9–64, Cl. 192—4.
Granryd, Thorvald G., to The Frank G. Hough Co. Transmission controls. 3,139,766, 7–7–64, Cl. 74—472.
Granryd, Thorvald G., to The Frank G. Hough Co. Hydrostatic transmission arrangement for tractor loaders. 3,148,502, 9–15–64, Cl. 60—19.
Granryd, Thorvald G., to The Frank G. Hough Co. Tractor loaders. 3,161,306, 12–15–64, Cl. 214—140.
Granryd, Thorvald G., and A. L. Collins, to The Frank G. Hough Co. Tractor loaders. 3,148,792, 9–15–64, Cl. 214—140.
Grant, Bruce F., to Sinclair Research Inc. In situ heating process. 3,149,670, 9–22–64, Cl. 166—11.
Grant, Charles H. Controlled temperature flow around airfoils. 3,154,267, 10–27–64, Cl. 244—15.
Grant, Chester A., and A. H. Strand, to Gaylord Bros., Inc. Protective cover or envelope. 3,142,437, 7–28–64, Cl. 229—68.
Grant, Chester A., and A. H. Strand, to Gaylord Bros., Inc. Binder. 3,151,886, 10–6–64, Cl. 281—19.
Grant, Clyde P.: *See*—
Forrester, Gilbert, Grant, and Smith. 3,151,482.
Grant, Clyde P., and M. A. Look, to S. D. Warren Co. Shift register control for a paper finishing machine. 3,159,068, 12–1–64, Cl. 83—106.
Grant, David, and L. V. Hall, to Hughes Tool Co. Vibration damping mechanism. 3,144,082, 8–11–64, Cl. 170—160.55.
Grant, Donald W., to Wilgrant Automatics Ltd. Preselecting and control apparatus for dispensing devices. 3,122,271, 2–25–64, Cl. 222—17.
Grant, Ernest C.: *See*—
Cioccio, Armand, Frazier, Grant, and Lewis. 3,137,823.
Grant, Gardner L., W. Antonoff, E. Gauthier, and H. A. Powers, to Universal Controls, Inc. Fare collecting machine. 3,128,038, 4–7–64, Cl. 235—32.
Grant, George W. Test apparatus for automobile generators, alternators and voltage regulators. 3,142,797, 7–28–64, Cl. 324—73.
Grant, John A., to Owens-Corning Fiberglas Corp. Coated glass fiber combinations. 3,155,122, 11–3–64, Cl. 139—425.
Grant, Louis R.: *See*—
Burg, Anton B., and Grant. 3,118,951.
Grant, Nicholas J., to Corning Glass Works. Method of removing the pattern from a thin shell investment mold. 3,132,388, 5–12–64, Cl. 22—196.
Grant, Nicholas J. Strength recovery of dispersion hardened alloys. 3,139,682, 7–7–64, Cl. 29—552.2.
Grant, Norman H., and H. E. Alburn, to American Home Products Corp. New crystalline form of D-6-(2-amino-2-phenylacetamido) penicillanic acid. 3,144,445, 8–11–64, Cl. 260—239.1.
Grant, Norman H., and H. E. Alburn, to American Home Products Corp. Enzymatic process for preparing penicillins. 3,152,050, 10–6–64, Cl. 195—28.
Grant Oil Tool Co.: *See*—
Auer, Leland S. 3,128,614.
Grant, Peter J.: *See*—
Haines, Geoffrey H., and Grant. 3,140,982.
Grant, Philip O., and W. F. Hagner. Drum key holder. 3,139,783, 7–7–64, Cl. 84—411.
Grant, Richard T., to The Kent Mfg. Co. Elongated wire to flat cable connector. 3,144,288, 8–11–64, Cl. 339—17.
Grant, Samuel, to Helene Curtis Industries, Inc. Cold wave neutralizing composition and process. 3,143,476, 8–4–64, Cl. 167—87.1.
Grant, Tom S. Electric tape winding and display device. 3,145,943, 8–25–64, Cl. 242—67.4.
Grant, William T.: *See*—
Herring, Jerome L., Grant, and Pistner. 3,140,770.
Grantham, Frederick W., to The T. L. Smith Co. Door actuating mechanism for laundry dryer. 3,116,903, 1–7–64, Cl. 248—134.
Grantham, William G., to FMC Corp. Weftless tape and a method for the manufacture thereof. 3,118,806, 1–21–64, Cl. 161—143.
Granu-Flow Equipment Ltd.: *See*—
Feldsted, Robert J. C. 3,132,669.
Granzer, Joseph F., III, and R. W. Macy II. Piston pulling device. 3,137,060, 6–16–64, Cl. 29—200.
Grape, Leonard E. Pliers. 3,142,212, 7–28–64, Cl. 81—383.5.
Graphic Controls Corp.: *See*—
Ellison, Michael C. 3,158,506.
Graphtex, Inc.: *See*—
Markoff, Gerald N. 3,148,099.
Grasenick, Fritz: *See*—
Gessner, Siegfried, and Grasenick. 3,131,917.
Graser, Fritz: *See*—
Eisele, Julius, Federkiel, Schuster, Gehm, Tartter, Graser, Rohland, and Stoeckl. 3,154,533.
Eisele, Julius, Federkiel, Schuster, Gehm, Tartter, Graser, Rohland, and Stoeckl. 3,154,567.
Grasham, Anderson C.: *See*—
Buckreus, Allan J., Grasham, and Lewis. 3,149,594.
Grashow, Joseph. Automobile antenna mount structure. 3,138,661, 6–23–64, Cl. 174—153.
Grasmoen, Albert C. Pneumatic cushion coaster slide. 3,135,978, 6–9–64, Cl. 9—347.
Grass, Gary G., to Colonnag Ag. Apparatus for automatically cleaning vehicles or the like. 3,160,903, 12–15–64, Cl. 15—97.
Grass, Joseph J., to Abbott Laboratories. Closure assembly. 3,144,151, 8–11–64, Cl. 215—6.
Grasselli, Robert, T. B. Selover, Jr., and J. L. Callahan, to The Standard Oil Co. Manufacture of methyl t-butyl ether. 3,135,807, 6–2–64, Cl. 260—614.
Grasser, Arthur P., to Ball Damping Devices, Inc. Vibration damping method and device. 3,128,330, 4–7–64, Cl. 174—42.
Grasshoff, Hans-Joachim: *See*—
Lange, Guenter, Krehbeil, Kohler, and Grasshoff. 3,117,-961.

Grassman, Wolfgang, and K. Hannig. Device for the execution of the carrier free continuous electrophoresis. 3,125,500, 3–17–64, Cl. 204—299.
Grassmann, Wolfgang: *See*—
Maier, Karl-Heinrich, and Grassmann. 3,129,159.
Gråsvoll, Halvor, ⅓ each to G. G. Magnusson, and K. I. Weiner. Loading apparatus. 3,130,839, 4–28–64, Cl. 214—6.
Grater, Vivian S., to Dominion Engineering Works Ltd. Stock inlet. 3.128,790, 4–14–64, Cl. 137—605.
Gratian, Joseph W.: *See*—
Freytag, Richard W., and Gratian. 3,134,083.
Gratrex, Edward J.: *See*—
Basham, Edgar W. J., Gratrex, Harland, and Maskell. 3,142,968.
Gratzmuller, Jean L. Hydraulic power system control. 3,116,607, 1–7–64, Cl. 60—51.
Gratzmuller, Jean L. Pressure reducing devices. 3,131,717, 5–5–64, Cl. 137—505.23.
Gratzmuller, Jean L. Control system for hydraulic actuators. 3,136,226, 6–9–64, Cl. 91—442.
Gratzmuller, Jean L. Pressure operated circuit-breaker actuating systems. 3,138,676, 6–23–64, Cl. 200—82.
Gratzmuller, Jean L. Switch for large currents with one contact plastically deformable in proportion to current value. 3,153,131, 10–13–64, Cl. 200—170.
Gratzmuller, Jean L. Cooling systems for internal combustion engines. 3,162,182, 12–22–64, Cl. 123—41.08.
Gratzmuller, Jean L. Device for cooling internal combustion motors. 3,162,183, 12–22–64, Cl. 123—41.08.
Graubremse G.m.b.H.: *See*—
Nicolay, Heinz, and Gruener. 3,155,435.
Graue, Georg, and W. Lückerath, to Phoenix-Rheinrohr Aktiengesellschaft Vereinigte Hutten- und Rohrenwerke. Lubricants. 3,125,519, 3–17–64, Cl. 252—11.
Graue, William D. Filters. 3,137,652, 6–16–64, Cl. 210—331.
Grauert, Fritz: *See*—
Ullmann, Werner, and Grauert. 3,129,357.
Grauleau, Didier: *See*—
Huber, Harry, and Grauleau. 3,139,542.
Gravel, Jean J. O., to Mount Royal Rice Mills Ltd. and Canada Rice Mills Co. Method of removing volatile constituents and carbon from rice hulls. 3,125,043, 3–17–64, Cl. 110—28.
Gravel, Jean-Paul J., to General Electric Co. Self-balancing simulated bridge circuit for measuring impedance. 3,139,579, 6–30–64, Cl. 324—57.
Gravelle, John A.: *See*—
Ulseth, John W., Halberg, and Gravelle. 3,150,262.
Graven, Gene U., 20% to J. J. Erwin and 40% to L. Brossard. Pipe crimper and expander. 3,117,615, 1–14–64, Cl. 153—48.
Graves, Carl O., to The Cincinnati Milling Machine Co. Bearing surface and method of producing said surface. 3,150,940, 9–29–64, Cl. 29—198.
Graves, Donald L., and P. Giuffrida, to Electronics Corp. of America. Self-checking condition responsive system. 3,143,161, 8–4–64, Cl. 158—28.
Graves, Donald L. and P. Giuffrida, to Electronics Corp. of America. Self-checking condition responsive system. 3,143,162, 8–4–64, Cl. 158—28.
Graves, Floyd: *See*—
Vickery, Leslie S. 3.139,939.
Graves, George W., to Buehler Ltd. Polishing method and apparatus. 3,137,977, 6–23–64, Cl. 51—119.
Graves, Henry J. Wheeled support device for flat tires of vehicle. 3,145,860, 8–25–64, Cl. 214—334.
Graves, Howard K., to Xerox Corp., and Bell & Howell Co. Document reproducing apparatus. 3,139,013, 6–30–64, Cl. 95—1.7.
Graves, Jewel: *See*—
Kurtz, John S., and Graves. 3,124,102.
Rigterink, Preston D., and Graves. 3,138,086.
Graves, Maurice E. Articulated ladder. 3,139,949, 7–7–64, Cl. 182—36.
Graves, Robert W.: *See*—
Willis, William M., and Graves. 3,129,021.
Graves, Roger E. Information locating means for material stored on film rolls. 3,125,749, 3–17–64, Cl. 340—174.1.
Graves, Ross E., and J. M. Sacks, to Space Technology Laboratories, Inc. Precision phase detector. 3,142,804, 7–28–64, Cl. 328—133.
Graves, William C.: *See*—
Dickison, Earl B., Graves, Lagler, and Purdy. 3,120,307.
Graviner Mfg. Co. Ltd.: *See*—
Pannell, Robert G. 3,140,369.
Gravitt, James C.: *See*—
Denman, Eugene D., Welter, Gravitt, and Voones. 3,139,617.
Gray, Alan H.: *See*—
Griggs, William H., Gray, and Zaffrann. 3,132,944.
Gray, Allan P., to Neisler Laboratories, Inc. Octahydroisoindoles. 3,127,413, 3–31–64, Cl. 260—319.
Gray, Allan P., to Neisler Laboratories, Inc. Indolyl substituted piperidines. 3,136,770, 6–9–64, Cl. 260—293.
Gray, Burl B.: *See*—
Brutten, Eugene J., Gray, Rose, and Falk. 3,163,557.
Gray, Charles L., Jr.: *See*—
Brockett, William H., Dettre, and Gray. 3,130,071.
Gray, Charles L., Jr., to E. I. du Pont de Nemours and Co. Solvent-soluble water-repellency compositions containing wax, liquid titanium ester and stabilizer. 3,157,661, 11–17–64, Cl. 260—28.5.
Gray Co., Inc.: *See*—
Vork, William D. 3,116,882.
Gray, Cyril, to Associated Electrical Industries Ltd. X-ray tubes. 3,124,710, 3–10–64, Cl. 313—57.
Gray, Deckerd J., and A. T. Clifford, to Riegel Textile Corp. Flushable diaper. 3,131,693, 5–5–64, Cl. 128—284.
Gray, Dolph, and J. Suddarth, to Coburn Mfg. Co., Inc. Bevel edge grinder. 3,121,979, 2–25–64, Cl. 51—101.
Gray, Edward E.: *See*—
Dell, Harold R., Gray, Frank, and Stoltz. 3,161,458.
Gray, Floyd L., to General Electric Co. Quick release adjustable X-ray patient support belt. 3,160,143, 12–8–64, Cl. 119—96.
Gray, Frank P., and A. D. Penn. Endless spring belt assembly. 3,157,056, 11–17–64, Cl. 74—238.
Gray, G. A., Co., The: *See*—
Foster, Theodore, and Hake. 3,153,359.
Walter, John M. 3,129,641.
Gray, Gene W. Pocket hair brush. 3,151,346, 10–6–64, Cl. 15—187.
Gray, George F. Optical measuring instrument. 3,119,185, 1–28–64, Cl. 33—46.
Gray, George W.: *See*—
Hatke, Fred L., and Gray. 3,119,056.
Gray, Harry J., Jr., to Sperry Rand Corp. Synchronized single pulse circuit producing output of predetermined length from delay lines having dissimilar periods. 3,124,705, 3–10–64, Cl. 307—88.5.
Gray & Huleguard, Inc.: *See*—
Abbott, John R., and Phillips. 3,163.732.
Abbott, John R., Phillips, and Stephenson. 3,119,645.
Gray, James E. Barrel or tank stand. 3,138,273, 6–23–64, Cl. 214—130.
Gray, James H., to Drennan-Gray Corp. Door stop. 3,141,188, 7–21–64, Cl. 16—86.
Gray, John, to FMC Corp. Pressure control for water systems. 3,135,282, 6–2–64, Cl. 137—114.
Gray, John W.: *See*—
Bernstein-Bervery, Sergio, and Gray. 3,121,201.
Gray, John W., to General Precision, Inc. Sine-cosine frequency tracker. 3,121,202, 2–11–64, Cl. 331—11.
Gray, John W., to General Precision, Inc. Precision integrator. 3,134,027, 5–19–64, Cl. 307—88.5.
Gray, John W., to General Precision, Inc. Course plotter. 3,141,725, 7–21–64, Cl. 346—8.
Gray, John W., to General Precision, Inc. False lock-on elimination circuit. 3,148,368, 9–8–64, Cl. 343—8.
Gray, John W., to General Precision, Inc. Sweep and flyback circuit. 3,159,754, 12–1–64, Cl. 307—88.5.
Gray, John W., and J. Reed, to General Precision, Inc. Frequency measuring system including synchronously variable capacitors and servo indicating means. 3,134,072, 5–19–64, Cl. 324—78.
Gray, John W., and J. Reed, to General Precision, Inc. Automatic frequency control and sweep circuit. 3,142,022, 7–21–64, Cl. 331—4.
Gray, John W., and H. L. Hunter, III, to General Precision, Inc. Integrator. 3,155,823, 11–3–64, Cl. 235—183.
Gray, Milo C., J. I. Pope, and P. H. Peth, to Hall-Toledo, Inc. Guide and depth gauge for combination portable grinders and dressers. 3,148,486, 9–15–64, Cl. 51—170.
Gray Pharmaceutical Co.: *See*—
Chessin, Max. 3,154,546.
Gray, Philip J., to The Sippican Corp. Modular electrical device. 3,151,277, 9–29–64, Cl. 317—101.
Gray, Reed A.: *See*—
Koniuszy, Frank R., Kaczka, Long, and Gray. 3,137,626.
Gray, Reginald I. Coaxial relay. 3,119,989, 1–21–64, Cl. 200—102.
Gray, Reuben F., to United States of America, Navy. Acceleration protective apparatus. 3,158,149, 11–24–64, Cl. 128—1.
Gray, Richard O., and N. Kafka, to Zenith Radio Corp. Television receiver chassis. 3,119,900, 1–28–64, Cl. 178—7.9.
Gray, Richard O., and N. Kafka, to Zenith Radio Corp. Television receiver chassis. 3,139,485, 6–30–64, Cl. 178—7.8.
Gray, Robert A., Jr., to Mueller Brass Co. Lamp swivel assembly with rotational limiting means. 3,144,263, 8–11–64, Cl. 285—269.
Gray, Robert H., to Preferred Growth Capital, Inc. Load binding winch control mechanism. 3,141,353, 7–21–64, Cl. 74—577.
Gray, Robert P.: *See*—
Bresk, Frank C., Gray and Lipp. 3,151,856.
Gray, Roland M., to Tri-Point Industries, Inc. Hermetically sealed electrical connectors and method of producing same. 3,130,260, 4–21–64, Cl. 174—152.
Gray, Samuel A., to Bell Aerospace Corp. Dynamically variable orifice for load damping. 3,138,072, 6–23–64, Cl. 91—437.
Gray, Terence E., to G.Q. Parachute Co. Ltd. Load carriers for use by parachutists and others. 3,132,779, 5–12–64, Cl. 224—5.
Gray, Thomas E. H., and J. Jones-Hinton, to Dunlop Rubber Co. Ltd. Vacuum-forming machines. 3,158,904, 12–1–64, Cl. 18—19.
Gray, Thomas O.: *See*—
Barker, Charles T., and Gray. 3,129,976.
Jones, Hinton, James, and Gray. 3,130,406.

Gray Tool Co.: *See—*
Latham, Raymond E., and Watts. 3,159,302.
Soderberg, Paul B., Watts, and Harwell. 3,152,786.
Watts, John D. 3,141,685.
Watts, John D. 3,150,889.
Watts, John D., Ireland, and Crain. 3,118,690.
Gray, Willard A.: *See—*
Nelson, Brooks E., and Gray. 3,139,642.
Gray, Willard F. M., to General Electric Co. Porous coatings for electric conductors. 3,132,205, 5–5–64, Cl. 174—124.
Gray, William D., to Ohio State University Research Foundation. Process for the production of fungal protein. 3,151,038, 9–29–64, Cl. 195—32.
Gray, William P., ½ to J. K. Moran. Calculator. Re. 25,610, 6–30–64, Cl. 235—73.
Gray, William R., to Standard Mirror Co., Inc. Support for attaching a rear vision mirror to a windshield. 3,120,369, 2–4–64, Cl. 248—223.
Gray, Wyndol W. Device for practicing basketball shooting accuracy. 3,160,414, 12–8–64, Cl. 273—1.5.
Graybeal, Troy D., to Lear Siegler, Inc. Control apparatus for alternating current dynamoelectric machines. 3,144,594, 8–11–64, Cl. 318—197.
Graybeal, Troy D., to Lear Siegler, Inc. Control apparatus for alternating current dynamoelectric motors. 3,144,595, 8–11–64, Cl. 318—197.
Graybeal, Troy D., to Lear Siegler, Inc. Control apparatus for alternating current dynamoelectric motors. 3,144,596, 8–11–64, Cl. 318—197.
Graybeal, Troy D., to Lear Siegler, Inc. Apparatus for obtaining the sum or difference of the frequencies of two alternating signals. 3,151,915, 10–6–64, Cl. 307—3.
Graybeal, Troy D., and H. H. Humpal, to The Siegler Corp. Servo positioning apparatus. 3,121,195, 2–11–64, Cl. 318—19.
Graybeal, Troy D., and C. P. Cardeiro, to The Siegler Corp. Control apparatus for alternating current dynamoelectric machines. 3,122,696, 2–25–64, Cl. 322—20.
Graybill, Clinton L., to Graybill Industries, Inc. Fully automatic power transmission and vehicle control means. 3,128,636, 4–14–64, Cl. 74—472.
Graybill, Clinton L., to Graybill Industries, Inc. Fully automatic power transmission and vehicle control means. 3,131,581, 5–5–64, Cl. 74—740.
Graybill, Clinton L., to Graybill Industries, Inc. Mechanical starter motor energized by engine operation. 3,139,877, 7–7–64, Cl. 123—179.
Graybill Industries, Inc.: *See—*
Graybill, Clinton L. 3,128,636.
Graybill, Clinton L. 3,131,581.
Graybill, Clinton L. 3,139,877.
Graydon, Sterling, Jr. Split-armature rotary solenoid. 3,157,803, 11–17–64, Cl. 310—24.
Grayhill Moldtronics, Inc.: *See—*
Scherry, George A. 3,129,397.
Urban, Alfred P. 3,140,139.
Grayling State Bank: *See—*
Bear, Fred B. 3,120,222.
Grayson, Martin, and P. T. Keough, to American Cyanamid Co. Organic phosphine oxides and methods of preparing same. 3,145,227, 8–18–64, Cl. 260—465.8.
Grayson, Martin, and P. T. Keough, to American Cyanamid Co. Tetra-substituted bridge diphosphines. 3,148,205, 9–8–64, Cl. 60—465.8.
Grayson, Richard D., and G. P. Greenamyer, to International Telephone and Telegraph Corp. Attachment for controls to a tank. 3,149,782, 9–22–64, Cl. 236—33.
Graziano, Anthony F., to Allegheny Ludlum Steel Corp. Method of preventing ribbing and roping. 3,139,358, 6–30–64, Cl. 148—12.
Grazier, Floyd C. Tube bend former. 3,136,186, 6–9–64, Cl. 81—15.
Grazioso, Charles G., and G. W. Mulder. Process for warm extrusion of metal. 3,156,043, 11–10–64, Cl. 29—552.3.
Greager, Paul, Jr.: *See—*
Pereny, Louis, Gibbs, and Greager. 3,146,884.
Greanias, Evon C., to International Business Machines Corp. Visual character inspection system. 3,156,894, 11–10–64, Cl. 340—146.3.
Greanias, Evon C., and W. W. Hardin, to International Business Machines Corp. Character recognition system. 3,140,466, 7–7–64, Cl. 340—146.3.
Greanias, Evon C., and W. W. Hardin, to International Business Machines Corp. Automatic output control system. 3,146,422, 8–25–64, Cl. 340—146.3.
Grease & Oil Co., Inc.: *See—*
Kolde, Robert F., and Pelley. 3,159,304.
Greatbatch, William H., Jr., and W. L. Wuster, to United States of America, Navy. Television type selected raster lines display. 3,119,949, 1–28–64, Cl. 315—26.
Greatbatch, William H., Jr. Method of deception for an aircraft. 3,126,544. 3–24–64, Cl. 343—18.
Great Dane Trailers, Inc.: *See—*
Jewell, Robert A. 3,143,057.
Jewell, Robert A., and Lemacks. 3,126,209.
Greater Vancouver Sewerage and Drainage District: *See—*
Pecknold, Cecil E. J. 3,162,504.
Greathouse, Walton D.: *See—*
Hudgins, Charles M., Jr., McGlasson, and Greathouse. 3,139,930.
McGlasson, Robert L., Greathouse, Landers, and Hudgins. 3,132,694.
Great Lakes Carbon Corp.: *See—*
Bailey, Bruce L., and Best. 3,120,454.
Belohlav, Leo R. 3,145,084.
Fryer, Glenn E. 3,122,636.
Kanuch, John A. 3,147,095.
Kenan, Wilfred M. 3,142,482.
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Thomas, Edward C. 3,161,580.
Great Lakes Chemical Corp.: *See—*
Arnold, William B. 3,139,357.
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Great Lakes Stamp & Mfg. Co., Inc.: *See—*
Werder, Theodore G., and Schuetze. 3,161,215.
Great Northern Paper Co.: *See—*
Blaisdell, Raymond C. 3,134,620.
Great Northern Railway Co.: *See—*
Sturm, Rudolph J., Jr. 3,139,748.
Great Northwestern Connecticut Window Corp., The: *See—*
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Great Western Drilling Co.: *See—*
Mallory, Harvey E. 3,150,085.
Great Western Sugar Co., The: *See—*
Walters, George E. 3,122,283.
Greaves, Melvin J.: *See—*
Touzalin, Robert E., and Greaves. 3,126,906.
Greaves & Thomas Ltd.: *See—*
Cobb, William R. 3,118,661.
Greaves, Walter M. Conveyor elevator. 3,139,173, 6–30–64, Cl. 198—113.
Grebe, Carl E., and J. C. Cline, deceased, by B. H. Cline, administratrix, to The Dow Chemical Co. Explosive compositions having upgraded power factors. 3,119,332, 1–28–64, Cl. 102—23.
Grebe, Chauncey L.: *See—*
Gottschall, Paul P. and Grebe. 3,160,741.
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Grebe, Kurt R.: *See—*
Bartkus, Edward A., Elfant, Grebe, and Mazzeo. 3,134,096.
Grebe, John J., to The Dow Chemical Co. Waveguide joining by criss-cross welding of extended flanges. 3,149,295, 9–15–64, Cl. 333—98.
Grebowiec, Michael J., and P. A. Marchant. Double-wall jar. 3,156,279, 11–10–64, Cl. 150—.5.
Grecious, Edwin V.: *See—*
Lizan, Irwin S., and Grecious. 3,126,140.
Greco, Frank, to Singer Co. of Canada Ltd. Stitch control mechanism for blindstitch sewing machines. 3,143,986, 8–11–64, Cl. 112—178.
Greco, Frank, to Singer Co. of Canada Ltd. Edge trimming device. 3,151,587, 10–6–64, Cl. 112—123.
Greco, Frank P., to Singer Co. of Canada Ltd. Belt loop folder. 3,121,412, 2–18–64, Cl. 112—140.
Greco, Frank P., to Singer Co. of Canada Ltd. Fabric binding attachment for a sewing machine. 3,154,034, 10–27–64, Cl. 112—176.
Greco, Peter F., and W. R. Parsons, to Burndy Corp. Printed circuit connector. 3,127,228, 3–31–64, Cl. 339—17.
Greco, Peter F., and R. J. Noschese, to Burndy Corp. Connector for printed circuit boards. 3,160,459, 12–8–54, Cl. 339—176.
Greco, Saverio G., and J. Hanisian, to Pullman Inc. Separation of hydrocarbons. 3,150,199, 9–22–64, Cl. 260—677.
Greear, George R., R. M. Schulken, Jr., and J. W. Tamblyn, to Eastman Kodak Co. Polyolefin compositions of improved transparency. 3,118,847, 1–21–64, Cl. 260—23.
Greeley, Charles E., to Atlantic Research Corp. Capacitor distributor. 3,142,795, 7–28–64, Cl. 323—93.
Green, A. P., Fire Brick Co.: *See—*
Boyer, Neil E., Crookston, and Frank. 3,153,834.
Homolya, Harry P. 3,161,162.
Green, Albert J.: *See—*
Rosener, Willard C., Green, Robbins, Frost, and Donovan. 3,145,924.
Green, Alfred. Multiple gas burner and internal diverter. 3,126,047, 3–24–64, Cl. 158—104.
Green, Arthur A.: *See—*
Dealy, John M., and Green. 3,119,635.
Green, Cecil: *See—*
Tallentire, Arthur G., and Green. 3,153,596.
Green, Charles E., to United States of America, Navy. Anechoic sonar calibration pool. 3,137,362, 6–16–64, Cl. 181—.5.
Green, Charles E., to United States of America, Navy. Electroacoustic transducer. 3,149,301, 9–15–64, Cl. 340—8.
Green, Daniel A.: *See—*
Brown, Harry S., Green, and Ross. 3,147,465.
Green, Daniel M., K. J. Kohnle, and R. J. Elliott, to Bristol-Myers Co. Medicated gels. 3,134,720, 5–26–64, Cl. 167—82.
Green, David E.: *See—*
Crane, Frederick L., Lester, and Green. 3,162,654.
Green, David W. Cuff link construction. 3,156,024, 11–10–64, Cl. 24—41.
Green, Derek B., to Ford Motor Co. Hydraulic lash adjusting device. 3,163,158, 12–29–64, Cl. 123—90.
Green, Donald C., to Mansfield-Green, Inc. Pressure apparatus. 3,155,041, 11–3–64, Cl. 103—37.
Green, Donald F. Filter press. 3,153,630, 10–20–64, Cl. 210—230.

Green, Donald W.: *See*—
Parke, Robert M., and Green. 3,134,150.
Green, Edward H. Spray head for swirling spray. 3,129,-893, 4–21–64, Cl. 239—490.
Green, Edward H. Valve mechanism with metering channel. 3,150,803, 9–29–64, Cl. 222—394.
Green, Edward H. Aerosol valve housing construction and method of making same. 3,159,318, 12–1–64, Cl. 222—394.
Green, Edward R., to Ventrex Roofing Ltd. Method and apparatus for the manufacture of louvred corrugated sheeting. 3,135,311, 6–2–64, Cl. 153—2.
Green Engineering Co.: *See*—
Jordan, Wendell M., Sr. 3,142,504.
Green, Farno L.: *See*—
Black, Robert E., and Green. 3,161,504.
Green, Frederic L., ½ to P. A. Jones and ½ to W. D. Runswick. Light fixture apparatus. 3,117,732, 1–14–64, Cl. 240—147.
Green, Gene L.: *See*—
Cain, Earl S., Jr., Bosco, Kumm, and Green. 3,147,951.
Green, George D.: *See*—
Hampton, Verner W., Johnson, Renwick, and Green. 3,126,839.
Hampton, Verner W., Renwick, and Green. 3,119,349.
Green, George E., to Benguet Consolidated, Inc. Method and process for the extraction of nickel and cobalt from ores. 3,146,091, 8–25–64, Cl. 75—82.
Green, Gourley H. Stair climbing wheelchair. 3,142,351, 7–28–64, Cl. 180—8.
Green, Harold A.: *See*—
Erner, William E., and Green. 3,152,094.
Green, Harold H.: *See*—
Waldron, Felix W., Green, and Bennett. 3,157,545.
Green, Homer H., R. R. Radke, and R. R. Steingas, to Minneapolis-Moline, Inc. Tractor mounted harvesters. 3,159,-956, 12–8–64, Cl. 56—15.
Green, Homer T., to The Parker Pen Co. Fountain pen. 3,134,362, 5–26–64, Cl. 120—45.4.
Green, Howard D.: *See*—
Lard, Edwin W., Horn, and Green. 3,123,637.
Green, Howard S., to All American Engineering Co. Support system for aircraft arresting cables. 3,158,341, 11–24–64, Cl. 244—110.
Green, Jack R., and K. Goitein, to Vickers Instruments Ltd. Mechanisms applicable to hardness testing. 3,120,753, 2–11–64, Cl. 73—81.
Green, James S. V. Anti-collision detection and warning system. 3,150,364, 9–22–64, Cl. 343—7.
Green, Jerome, to Nalco Chemical Co. Quaternary imidazolium and imidazolinium bisulfites. 3,121,091, 2–11–64, Cl. 260—309.
Green, Jerome, to Nalco Chemical Co. Coagulating composition. 3,130,167, 4–21–64, Cl. 252—181.
Green, John A., to Borg-Warner Corp. Plug-in type immersible pump. 3,143,971, 8–11–64, Cl. 103—87.
Green, John H., to Winston Electronics Ltd. Blood pressure follower. 3,143,111, 8–4–64, Cl. 128—213.
Green, John M., to Monsanto Co. Yarn waste spool. 3,162,-993, 12–29–64, Cl. 57—34.
Green, Joseph. Toy figure with body members secured by vacuum cups. 3,158,954, 12–1–64, Cl. 46—22.
Green, Joseph, M. M. Fein, and N. Mayes, to Thiokol Chemical Corp. Organoboron compounds and method of preparation. 3,126,415, 3–24–64, Cl. 260—606.5.
Green, Joseph, and G. J. Donovan, to Thiokol Chemical Corp. Solid propellant and process using vinyl decaborane compounds. 3,141,803, 7–21–64, Cl. 149—19.
Green, Leland W., to Calmec Mfg. Co. Force-balanced multiple position seals for valves and the like. 3,128,632, 4–14–64, Cl. 74—18.2.
Green, Leon G., Jr. Tank cleaning device. 3,150,669, 9–29–64, Cl. 134—167.
Green, Louis: *See*—
Goodman, Charles, and Green. 3,138,806.
Green, Martin. Eating utensils. 3,121,951, 2–25–64, Cl. 30—149.
Green, Martin. Toy apparatus. 3,130,517, 4–28–64, Cl. 46—51.
Green, Matthias E. Shield for mouth-to-mouth resuscitation. 3,137,293, 6–16–64, Cl. 128—29.
Green, Milton: *See*—
Blout, Elkan R., Green, and Rogers. 3,134,672.
Blout, Elkan R., Green and Rogers. 3,134,764.
Blout, Elkan R., Green, Rogers, and Simon. 3,142,565.
Green, Milton, to Polaroid Corp. Photographic products, processes and compositions employing azo dye developers. 3,141,772, 7–21–64, Cl. 96—29.
Green, Milton, and H. G. Rogers, to Polaroid Corp. Photographic processes, compositions and products utilizing azo dye developers. 3,135,604, 6–2–64, Cl. 96—29.
Green, Milton, and H. G. Rogers, to Polaroid Corp. Azo dye developers. 3,135,734, 6–2–64, Cl. 260—162.
Green, Milton, and H. P. Husek, to Polaroid Corp. Process of diazotizing, coupling and hydrolyzing. 3,158,595, 11–24–64, Cl. 160—162.
Green, Milton W., to AMP Inc. Load-selection circuit. 3,122,645, 2–25–64, Cl. 307—88.
Green, Norman G., to British Telecommunications Research Ltd. Synchronous repeaters for telegraph systems. 3,138,-666, 6–23–64, Cl. 178—70.
Green, Paul R., and T. E. Druckenmiller, to Esso Research and Engineering Co. Piston operated fluid transfer apparatus. 3,126,913, 3–31–64, Cl. 137—615.
Green, Peter D., and R. Bush-Nelson, to The Glaster Aircraft Co. Ltd. Beverage dispensing machines. 3,149,751, 9–22–64, Cl. 222—2.
Green, Raymond E.: *See*—
Anstey, Nigel A., Green, Baird, Hales, and Graf. 3,153,-771.
Green, Richard J., and J. W. Borger, to Pullman Inc. Container for pulverant materials and apparatus for unloading same. 3,138,409, 6–23–64, Cl. 302—52.
Green, Robert A., to Labbe-Green Corp. Convertible upright and tank type vacuum cleaner. 3,126,570, 3–31–64, Cl. 15—331.
Green, Robert T. Game apparatus having a game board and strips spaced from and parallel to the game board thereby providing a three dimensional game board. 3,131,934, 5–5–64, Cl. 273—136.
Green, Robert N., to General Motors Corp. Hydraulic accelerometer. 3,147,625, 9–8–64, Cl. 73—515.
Green, Rowland P., to Stothert & Pitt, Ltd. Vibratory roller. 3,145,631, 8–25–64, Cl. 94—50.
Green, Rowland P., to Stothert & Pitt, Ltd. Concrete mixing apparatus. 3,160,398, 12–8–64, Cl. 259—177.
Green, Sally S. Readily portable luggage-type electric heating device. 3,140,387, 7–7–64, Cl. 219—346.
Green, Sidney S., to Sperry Rand Corp. Modular electronic assemblies with cooling means. 3,124,720, 3–10–64, Cl. 317—100.
Green, Sydney J., and D. S. Goodfellow, to Brown and Williamson Tobacco Corp. Apparatus for the treatment of paper. 3,133,379, 5–19–64, Cl. 51—8.
Green, Thomas A.: *See*—
David, Gordon W., and Green. 3,132,670.
Green, Thomas F., to Birfield Engineering Ltd. Method of positioning a damping insert into a tubular shaft. 3,145,-464, 8–25–64, Cl. 29—464.
Green, Virginia, and L. M. Johnston. Apparatus for making topographical models. 3,137,209, 6–16–64, Cl. 90—13.1.
Green, Walter F. Fuel flow meter construction. 3,117,446, 1–14–64, Cl. 73—210.
Green, William & Co. (Ecclesfield) Ltd.: *See*—
Warren, Ernest. 3,142,748.
Green, Wilson P., and W. H. McKee, to United-Carr Fastener Corp. Hand tool. 3,137,062, 6–16–64, Cl. 29—206.
Greenamyer, George P.: *See*—
Grayson, Richard D., and Greenamyer. 3,149,782.
Greenan, Freeda R., ½ to J. W. Fulton, Jr. Automatic feeding mechanism for livestock and poultry. 3,157,158, 11–17–64, Cl. 119—51.11.
Greenawalt, John E., to Greenawalt Sintering Co., Inc. Suction fan. 3,123,284, 3–3–64, Cl. 230—128.
Greenawalt, John E. deceased; J. S. Greenawalt; executrix. In the recovery of chemicals from the incineration of waste black liquor, the method of eliminating noxious compounds entrained in the combustion gas. 3,163,495, 12–29–64, Cl. 23—48.
Greenawalt, Joy S.: *See*—
Greenawalt, John E. 3,163,495.
Greenawalt Sintering Co., Inc.: *See*—
Di Cesare, George E. 3,160,385.
Greenawalt, John E. 3,123,284.
Greenaway, Richard, to L. B. Weber. Audio visual apparatus. 3,138,061, 6–23–64, Cl. 88—28.
Greenbaum, Sheldon B., and N. E. Boyer, to Hooker Chemical Corp. Novel phosphorus and chlorine containing tricyclic heterocycles. 3,146,253, 8–25–64, Cl. 260—461.
Green Bay Foundry and Machine Works: *See*—
Steber, Joseph F. 3,155,131.
Green Bay Packaging Inc.: *See*—
Baum, Richard E., and Daniels. 3,140,037.
Greenbee Bros. & Co.: *See*—
Linquist, Wayne A. 3,136,347.
Greenberg, Donald K., and K. H. Casson, to Barnes Drill Co. Honing element. 3,154,893, 11–3–64, Cl. 51—204.
Greenberg, Elmer H. and W. B. Metal-plate-treating apparatus. 3,138,900, 6–30–64, Cl. 51—9.
Greenberg, Harry, to Channel Master Corp. End fire planar dipole array with line transportation between dipoles and impedance increase towards feed. Re. 25,604, 6–16–64, Cl. 343—815.
Greenberg, Harry, to Channel Master Corp. End fire planar array of V-shaped multi-band dipoles. 3,163,864, 12–29–64, Cl. 343—809.
Greenberg, Leon S., to Raytheon Co. Graded energy gap semiconductive device. 3,132,057, 5–5–64, Cl. 148—33.
Greenberg, Richard A., and H. H. Young, to Swift & Co. Method of manufacturing biological insecticide and product thereof. 3,150,062, 9–22–64, Cl. 195—96.
Greenberg, Walter H.: *See*—
McCoy, John H., and Greenberg. 3,136,380.
Greenberg, Walter H., to Riverside Plastics Corp. Sonar dome. 3,123,176, 3–3–64, Cl. 181—.5.
Greenberg, William B.: *See*—
Greenberg, Elmer H. and W. B. 3,138,900.
Greenbie, Barrie B. Erecting arrangement for portable building. 3,138,828, 6–30–64, Cl. 20—2.
Greenbie, Barrie B., to Portapavilion Structures, Ltd. Collapsible building structure with center post erecting structure. 3,160,165, 12–8–64, Cl. 135—4.

Greenblott, Bernard J., to International Business Machines Corp. Fluid controlled device. 3,148,691, 9–15–64, Cl. 137—81.5.
Greenblott, Bernard J., and W. J. Wheeler, to International Business Machines Corp. Sheet handling apparatus. 3,140,089, 7–7–64, Cl. 271—5.
Greenburg, Joel, D. H. Meacham, D. H. Nash, and L. Schenker, to Bell Telephone Laboratories, Inc. Frequency divider for video systems employing blocking oscillator utilizing reverse breakdown diode in feedback circuit. 3,144,581, 8–11–64, Cl. 315—27.
Greenbury, Donald B. Boat storage rack. 3,136,425, 6–9–64, Cl. 211—1.
Greencastle Equipment Mfg. Co.: *See*—
Forsythe, Henry E., Jr. 3,159,294.
Greene, Blandford W.: *See*—
Copithorne, Alton R., De Vita, Greene, Musial, Ioannilli, and Akerley. 3,142,278.
Greene, Charles E., and C. H. Pulley, to Irving Air Chute Co., Inc. Twin hook type vehicle safety belt and guard boot therefor. 3,126,228, 3–24–64, Cl. 297—385.
Greene, Franklin R., to Ideal Toy Corp. Method of manufacturing a shoe using a heat-sealing die. 3,149,355, 9–22–64, Cl. 12—142.
Greene, George B. Jet engine. 3,157,029, 11–17–64, Cl. 60—39.77.
Greene, Howard M., Jr. Parking meter apparatus. 3,150,754, 9–29–64, Cl. 194—72.
Greene, Jack E., and J. J. Ingram, Jr., to International Business Machines Corp. Control apparatus. 3,141,152, 7–14–64, Cl. 340—172.5.
Greene, John P., to Parachem Corp. Sheet material dispenser. 3,151,771, 10–6–64, Cl. 221—26.
Greene, Joseph L. Jr.: *See*—
Hagemeyer, Hugh J. Jr., Greene, and Hequembourg. 3,160,621.
Greene, Kenneth F.: *See*—
Chapman, Edward B., Greene, and Ronkese. 3,138,785.
Greene, Kermit: *See*—
Pitt, Edgar W., and Greene. 3,144,131.
Greene, Kermit, to St. Regis Paper Co. Containers for electrical bulbs and the like. 3,162,303, 12–22–64, Cl. 206—46.
Greene, Lawrence E.: *See*—
Devol, James C., and Greene. 3,148,299.
Greene, Nicholas H., Jr., and A. T. Flower. Spreaders for aerial conductors. 3,161,724, 12–15–64, Cl. 174—146.
Greene, Norman D.: *See*—
Poppendiek, Heinz F., and Greene. 3,136,700.
Greene, Norman M.: *See*—
Cripe, Robert W., and Greene. 3,144,836.
Greene, Patrick J., Jr., O. L. Williams, and R. E. Yaeger, to Bell Telephone Laboratories, Inc. Automatic encoder test set for PCM encoders. 3,154,738, 10–27–64, Cl. 325—41.
Greene, Paul B., to General Motors Corp. Stator winding machine means. 3,129,491, 4–21–64, Cl. 29—33.
Greene, Paul B., to General Motors Corp. Stator winding machine means. 3,129,499, 4–21–64, Cl. 29—205.
Greene, Paul B., to General Motors Corp. Coil forming means for stator winding machine. 3,129,900, 4–21–64, Cl. 242—1.1.
Greene, Paul B., to General Motors Corp. Coil forming means for stator winding machine. 3,129,901, 4–21–64, Cl. 242—1.1.
Greene, Richard F.: *See*—
Nelson, Alfred B., Greene, and McCabe. 3,128,384.
Greene, Robert E., and E. T. Pieski, to E. I. du Pont de Nemours and Co. Process for degrading stereoregular polymers. 3,144,436, 8–11–64, Cl. 260—93.7.
Greene, Robert R., to Rockwell-Standard Corp. Induction heating apparatus. 3,153,132, 10–13–64, Cl. 219—10.75.
Greene, Samuel. Siding cutter. 3,134,285, 5–26–64, Cl. 83—467.
Greene, Sanford. Fluid-pressure actuated switch. 3,133,997, 5–19–64, Cl. 200—83.
Greene, Sanford I. Clampable precision gear. 3,139,296, 6–30–64, Cl. 287—52.
Greene, Stubnitz, Corp.: *See*—
Stern, Lewis J. 3,142,073.
Greene, William J., to Air Reduction Co., Inc. Regulated power supplies utilizing negative feedback control employing saturable reactors. 3,123,761, 3–3–64, Cl. 321—25.
Greene, William J., to Air Reduction Co., Inc. Gas analysis by measuring negative ions resulting from captured electrons. 3,154,680, 10–27–64, Cl. 250—43.5.
Greene, William J., and P. F. Beischer, to Air Reduction Co., Inc. Seam follower. 3,133,186, 5–12–64, Cl. 219—125.
Greene, William L.: *See*—
Berliner, Henry A., and Greene. 3,146,508.
Greene, Samuel. Ornamental protective covering for removable fasteners. 3,122,051, 2–25–64, Cl. 85—53.
Greene, Stanley A., to North American Aviation, Inc. Propellant and rocket propulsion method. 3,117,415, 1–14–64, Cl. 60—35.4.
Greenewald, Herbert, Jr., to United States of America, Air Force. Nickel alloy composition. 3,122,433, 2–25–64, Cl. 75—171.
Greenfield, Anthony F., ½ to H. M. Gittleman. Tapping device for barrels, kegs or the like. 3,141,690, 7–21–64, Cl. 287—58.
Greenfield, Charles. Removal of foreign components from fat-containing tissue. 3,134,795, 5–26–64, Cl. 260—428.
Greenfield, Walter S., and T. Oates, to Lukens Steel Co. Non-welded base for stands or furniture. 3,153,524, 10–20–64, Cl. 248—158.
Green Giant Co.: *See*—
Florin, James S. 3,154,117.
Marmorine, Marvin O., and Lawson. 3,162,459.
Greengrass, Floyd: *See*—
Siebein, Walter A., Rotolico, and Greengrass. 3,138,298.
Greenhalgh, Colin W., to Ilford Ltd. Colour couplers and their production and use in colour photography. 3,161,512, 12–15–64, Cl. 96—55.
Greenhalgh, Colin W., to Imperial Chemical Industries Ltd. Color photographic materials and processes. 3,133,815, 5–19–64, Cl. 96—55.
Greenhalgh, Colin W., and K. C. Stone, to Ilford Ltd. Colour photography. 3,127,269, 3–31–64, Cl. 96—55.
Greenhalgh, Neville. Paper-cutting and like machines. 3,136,194, 6–9–64, Cl. 83—305.
Greenhaus, Albert, to Berko Electric Mfg. Corp. Electric heater construction. 3,155,812, 11–3–64, Cl. 219—345.
Greenhill, Ernest L.: *See*—
St. Clair, Theodore A., and Greenhill. 3,161,049.
Greenhouse, Henry M., A. J. Dimick, and F. M. Myer, to Columbia Box Board Mills, Inc. Method of making striated paperboard. 3,138,518, 6–23–64, Cl. 162—109.
Greening, Donald J., N. L. Peterson, and C. E. Smith, to Cutler-Hammer, Inc. Motor speed and acceleration control systems. 3,163,812, 12–29–64, Cl. 318—331.
Greening, Paul K., and J. E. Bomboy. Spring clip for diapers and the like. 3,120,687, 2–11–64, Cl. 24—87.
Greenleaf Enterprises, Inc.: *See*—
Greenleaf, John W., Jr. 3,134,735.
Greenleaf, John W., Jr., to Greenleaf Enterprises, Inc. Open gravity filters. 3,134,735, 5–26–64, Cl. 210—264.
Greenleaf, Walter J. Cutting tool. 3,154,974, 11–3–64, Cl. 77—58.
Greenlee Bros. & Co.: *See*—
Herrstrum, Rudolph E. 3,128,654.
Schrecongost, Richard K., and Jannenga. 3,159,375.
Swanson, Edwin C. 3,139,221.
Greenlee, William B., and V. A. Miller, to North American Aviation, Inc. Binocular star sensing system. 3,122,644, 2–25–64, Cl. 250—203.
Greenler, Robert G., to Allis-Chalmers Mfg. Co. Apparatus using liquid electrodes for measuring the electric breakdown strength of thin films. 3,147,430, 9–1–64, Cl. 324—54.
Greenlie, David G., and E. W. Merrill, to W. R. Grace & Co. Rotary intaglio printing of rubber gaskets and similar shapes. 3,158,669, 11–24–64, Cl. 264—153.
Greenman, Leo. Automatic all color producing paint spray unit. 3,135,467, 6–2–64, Cl. 239—304.
Greenman, Murry. Apparatus for connecting presemiflanged rungs to preapertured spaced ladder rails. 3,119,435, 1–28–64, Cl. 153—80.5.
Greenman, Murry. Method for connecting presemiflanged rungs to preapertured spaced ladder rails. 3,140,540, 7–14–64, Cl. 29—512.
Green Shade Enterprises, Inc.: *See*—
Sigler, Richard J., and Schnellbacher. 3,161,989.
Greenshields, Bruce D. Method and apparatus for recording road appearance, geometry and surface characteristics. 3,151,235, 9–29–64, Cl. 235—92.
Greenshields, William S. Golf club weighting attachment which straddles the club head. 3,133,735, 5–19–64, Cl. 273—171.
Greenslade, Arthur T., Jr.: *See*—
Carkin, Clarence A., Greenslade, and Lambert. 3,130,914.
Greenslate, Wesley M. Camp table and loading assisting panel for vehicles. 3,132,755, 5–12–64, Cl. 214—83.24.
Greenspan, Frank P., and S. M. Linder, to FMC Corp. Improved epoxidation process with liquid aliphatic peroxy acids. 3,130,207, 4–21–64, Cl. 260—348.5.
Greenspan, George, and C. P. Schaffner, to Schering Corp. 1-hydroxylated pregnene compounds. 3,136,793, 6–9–64, Cl. 260—397.47.
Greenspan, Joseph, to Frigidmeats, Inc. Tenderizing machine. 3,149,554, 9–22–64, Cl. 99—254.
Greenstein, Leon M.: *See*—
Bolomey, René A., Miller, and Greenstein. 3,123,489.
Bolomey, René A., Miller, and Greenstein. 3,123,490.
Miller, Harold A., Schapiro, and Greenstein. 3,123,485.
Greenstreet, Arthur W.: *See*—
Epstein, Martin E., and Greenstreet. 3,154,613.
Greentree, Geraldine H.: *See*—
Greentree, Herbert. 3,135,358.
Greentree, Herbert, ½ to G. H. Greentree. Tractor-trailer braking systems and operating mechanism. 3,135,358, 6–2–64, Cl. 188—3.
Greenwald, Frank S., to Indiana General Corp. Variable magnetic strength permanent magnetic drum. 3,146,191, 8–25–64, Cl. 209—223.
Greenwald, Harold A., to The Garrett Corp. Dynamic fluid seal. 3,122,375, 2–25–64, Cl. 277—88.
Greenwald, Harry, ⅛ to L. Wolff and ⅛ to H. Silberglait. Coin operated control system for bowling alleys. 3,143,345, 8–4–64, Cl. 273—54.
Greenwold, Joseph H., to Itex Corp. Data processing apparatus. 3,134,314, 5–26–64, Cl. 95—14.

Greenwood, Allan N., and T. H. Lee, to General Electric Co. Switching circuit utilizing two silicon controlled rectifiers with transient protection for the rectifiers. 3,133,209, 5–12–64, Cl. 307—88.5.
Greenwood, Henry B., deceased (by S. H. Greenwood, executor), to Samuel M. Langston Co. Ductor roll lockout device. 3,120,803, 2–11–64, Cl. 101—351.
Greenwood, Ivan A., Jr., to General Precision, Inc. Hybrid doppler navigator. 3,159,833, 12–1–64, Cl. 343—8.
Greenwood, John, and E. A. Saxon-Napier, to Esso Research and Engineering Co. Lithium greases. 3,158,574, 11–24–64, Cl. 252—36.
Greenwood, Lewis: *See*—
Robbins, William B., and Greenwood. 3,148,820.
Greenwood, Marvin H., to Anderson, Greenwood & Co. Opposed corner radar reflector assembly. 3,138,798, 6–23–64, Cl. 343—18.
Greenwood Mills: *See*—
Still, Conway L. 3,134,144.
Greenwood, Raymond R. Animal holding device. 3,137,273, 6–16–64, Cl. 119—103.
Greenwood, Samuel H.: *See*—
Greenwood, Henry B. 3,120,803.
Greer, Edward M., to Greer Hydraulics, Inc. Blind shell piston accumulator. 3,158,180, 11–24–64, Cl. 138—31.
Greer, Everett A.: *See*—
Spraul, Joseph R., Peart, and Greer. 3,132,967.
Greer, Frederick W., Jr., to J. W. Greer Co. Automatic temper controlling apparatus. 3,154,137, 10–27–64, Cl. 165—12.
Greer, Henry R. Plumbing aid. 3,143,744, 8–11–64, Cl. 4—192.
Greer Hydraulics, Inc.: *See*—
Greer, Edward M. 3,158,180.
Greer, J. W., Co.: *See*—
Greer, Frederick W., Jr. 3,154,137.
Kinney, Lawrence W. 3,159,430.
Greger, Dean F.: *See*—
Greger, Herbert H. and D. F. 3,121,065.
Greger, Herbert H. and D. F. Electrically conductive ceramic tile. 3,121,065, 2–11–64, Cl. 252—519.
Greger, Paul, and E. Doring, to Voigtlander A.G. Photographic camera with auxiliary electric light source having energizing circuit including exposure meter indicator. 3,124,048, 3–10–64, Cl. 95—10.
Gregg, David F., Jr. Automobile service bar. 3,136,461, 6–9–64, Cl. 224—42.42.
Gregg, Edward B.: *See*—
Collier, Charles P., and McConnell. 3,144,342.
Gregg, Edward H.: *See*—
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Gregg, Randolph T. and R. J. 3,154,217.
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Gregoire, Resta S. 3,143,939.
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Gregorian, Razmic S., to W. R. Grace & Co. Polyethylene composition and process of crosslinking. 3,118,866, 1–21–64, Cl. 260—94.9.
Gregorian, Razmic S., and P. J. Conway, to W. R. Grace & Co. Process of forming graft copolymers of polystyrene and polyvinyl chloride. 3,135,717, 6–2–64, Cl. 260—45.5.
Gregorian, Razmic S., and R. A. Bafford, to W. R. Grace & Co. Post extrusion crosslinking of polyethylene. 3,140,279, 7–7–64, Cl. 260—94.9.
Gregorich, Joseph T., to Clark Equipment Co. Transmission control. 3,135,367, 6–2–64, Cl. 192—4.
Gregory, Beatrice M.: *See*—
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Schrader, Dale L., and Gregory. 3,135,473.
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Gregory, Richard L., to National Research Development Corp. Recording device. 3,120,420, 2–4–64, Cl. 346—59.
Gregowski, Joel H., to United States of America, Navy. Magnetometer supporting Gimbal system having segmented frame members with relatively high impedance bonding therebetween. 3,149,280, 9–15–64, Cl. 324—43.
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Greif, Martin, and J. F. Weidenheimer, to American Cyanamid Co. Water-soluble coated edible organic acids. 3,131,068, 4–28–64, Cl. 99—139.
Greig, Harold G., to Radio Corp. of America. Electrostatic printing process and apparatus. 3,117,884, 1–14–64, Cl. 117—17.5.
Greig, James W., to Woodall Industries, Inc. Hollow plastic sun visor having deformed areas. 3,128,121, 4–7–64, Cl. 296—97.
Greiling, David J., to Lyf-Alum, Inc. Sectional shutter. 3,120,883, 2–11–64, Cl. 189—63.
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Greiner, Charles J., A. S. Hubin, and R. G. Miller, to Kimberly-Clark Corp. Manufacture of cellulosic product. 3,131,436, 5–5–64, Cl. 19—144.5.
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Greiner, John R., to Lennox Industries, Inc. Strain relief clamp. 3,127,471, 3–31–64, Cl. 174—135.
Greiner, Leonard, to Texaco Experiment Inc. Oxidizer comprising water, magnesium nitrate and methanol. 3,152,937, 10–13–64, Cl. 149—22.
Greiner, Richard A., to Gisholt Machine Co. Square wave generator employing reverse-biased diodes at transistor input to produce symmetrical output. 3,128,395, 4–7–64, Cl. 307—88.5.
Greiner, Rudolf, to Greiner Electronic A.G. Balance spring collet for fastening the inner end of a balance spring for a timepiece. 3,121,307, 2–18–64, Cl. 58—115.
Greiner, Rudolf, to Greiner Electronic A.G. Stud for fastening the outer end of a hair spring for a timepiece. 3,122,880, 3–3–64, Cl. 58—115.
Greiner, William A., Jr., to Armstrong Cork Co. Belt aligning device. 3,156,129, 11–10–64, Cl. 74—241.
Greis, Karl, to Moeller & Neumann. Rotating shears for cutting continuously moving rolled material. 3,143,910, 8–11–64, Cl. 83—311.
Greis, Karl, to Verwaltungsgesellschaft Moeller und Neumann offene Handelsgesellschaft. Sheet metal shears. 3,154,988, 11–3–64, Cl. 83—216.
Greissman, Jacob. Simultaneous graphic recording, counting and timing device. 3,132,243, 5–5–64, Cl. 235—92.
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Grekel, Howard: *See*—
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Gretler, Albert C., J. C. Wilcox, and E. W. Hopkins, to Armour and Co. Preparation of sausage. 3,149,980, 9–22–64, Cl. 99—109.
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Greub, Werner. Occupant-controlled, obstruction-climbing wheel chair. 3,127,188, 3–31–64, Cl. 280—5.22.
Greuet, Pierre, to North American Philips Co., Inc. Device for fixing antenna rods. 3,119,633, 1–28–64, Cl. 287—54.
Greuet, Pierre, to North American Philips Co., Inc. Device for fixing an antenna rod on a rod-shaped or tubular support. 3,149,862, 9–22–64, Cl. 287—14.
Greuner, Bernd R. L., to Gebr. Heller. Boring head. 3,138,-043, 6–23–64, Cl. 77—58.
Greutman, Weldon W., to International Telephone and Telegraph Corp. Balanced gain control circuit. 3,141,137, 7–14–64, Cl. 330—29.
Greuzard, Charles E. Teaching and testing machine. 3,137,-079, 6–16–64, Cl. 35—9.
Greve, Wilhelm, and E. Meinecke, to Eastman International Co. G.m.b.H. Method and apparatus for ascertaining the level of a liquid in casings and drilled holes. 3,130,583, 4–28–64, Cl. 73—299.
Grevich, John J., and C. W. Paulson, to Doughboy Industries, Inc. Plastic bag and packaging machine. 3,161,001, 12–15–64, Cl. 53—182.
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Grib, Boris F., to Philamon Laboratories, Inc. Tuning fork resonator mounted to damp externally originating mechanical disturbances. 3,152,269, 10–6–64, Cl. 310—25.
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Griebsch, Eugen, and W. Garn, to Schering AG. Water soluble salts of steroidal -21- acid sulfates and therapeutic compositions containing same. 3,152,044, 10–6–64, Cl. 167—58.
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Wegner, Claude. 3,117,569.
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Griese, Elmer W., Jr., to Ekco Containers, Inc. Re-closable hermetically sealed container. 3,151,765, 10–6–64, Cl. 220—53.
Griese, Elmer W., Jr., to Ekco Containers, Inc. Hermetically sealed container. 3,151,800, 10–6–64, Cl. 229—3.5.
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Griesinger, Karl, to L. Schuler, AG. Flow deformation press. 3,142,380, 7–28–64, Cl. 207—6.
Griesinger, Karl, to L. Schuler, AG. Flow deformation press. 3,152,696, 10–13–64, Cl. 207—1.
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Griesser, Fritz, to Griesser A.G. Venetian blind. 3,141,497, 7–21–64, Cl. 160—170.
Griessl, Rudolf, to Markes & Co. Kommanditgesellschaft. Driving arrangements for toy devices and the like. 3,144,-787, 8–18–64, Cl. 74—665.
Grieve, George T. W., and H. W. R. Watson, to British Insulated Callender's Cables Ltd. Apparatus for controlling the tension in tapes. 3,142,453, 7–28–64, Cl. 242—75.47.
Grieve, George T. W., and H. W. R. Watson, to British Insulated Callender's Cables Ltd. Apparatus for controlling the tension in tapes. 3,147,933, 9–8–64, Cl. 242—75.47.
Griffel, Marc R., to Murray Iron Works Co. Elastic fluid turbine. 3,163,395, 12–29–64, Cl. 253—39.1.
Griffen, Ralph R., to Holley Carburetor Co. Combination brake and accelerator control. 3,128,859, 4–14–64, Cl. 192—3.
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Griffin, Anthony L., and E. G. Chetwynd. Extensible coat hanger. 3,148,808, 9–15–64, Cl. 223—86.
Griffin, Clifford J., to Fiscul Pty. Ltd. Means for recording oral proprioception. 3,129,510, 4–21–64, Cl. 32—19.
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Griffin, Eugene P., and J. W. Halbrook, to United States of America, Army. Nadir point determining instrument. 3,127,682, 4–7–64, Cl. 33—46.
Griffin, Gary W., to American Cyanamid Co. Photodimerization of tumaric acid derivatives. 3,139,395, 6–30–64, Cl. 204—158.
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Griffin, John J., to Foster Wheeler Corp. Fired heater for high control sensitivity service. 3,135,247, 6–2–64, Cl. 122—356.
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Griffith, Arvon M., to American Brake Shoe Co. Bearings. 3,151,015, 9–29–64, Cl. 161—158.
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Griffith, Donald L., to Custom Component Switches, Inc. Pressure switch. 3,133,171, 5–12–64, Cl. 200—83.
Griffith, Edward J., to Monsanto Chemical Co. Method for increasing the productivity of a formation penetrated by a well. 3,131,146, 4–28–64, Cl. 252—8.55.
Griffith, Edward J., to Monsanto Co. Ammonium nitrate composition. 3,148,946, 9–15–64, Cl. 23—103.
Griffith, Edward J., and J. G. Stites, Jr., to Monsanto Co. Modified ammonium nitrate. 3,148,945, 9–15–64, Cl. 23—103.
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Griffith, George L., G. A. Lyte, and F. B. Wells, to Trojan Powder Co. Detonatable cartridges having insensitive explosive cores. Re. 25,685, 11–17–64, Cl. 102—24.
Griffith, George L., and F. B. Wells, to Trojan Powder Co. Sensitized oil-slurried explosives. 3,147,163, 9–1–64, Cl.
Griffith, Harry B., to Munsingwear, Inc. Undergarment. 3,141,318, 7–21–64, Cl. 66—177.
Griffith, Jessie K. Apparatus for irrigation. 3,150,830, 9–29–64, Cl. 239—198.

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Griffith, Lee F., to Katagote, Inc. Crawler attachment for a trail scooter. 3,158,220, 11–24–64, Cl. 180—9.24.

Griffith, Richard, to Nopco Chemical Co. Process for the preparation of pantothenic acid salts. 3,150,175, 9–22–64, Cl. 260—534.

Griffith, Robert K., to Riley Stoker Corp. Steam generating unit. 3,150,644, 9–29–64, Cl. 122—479.

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Griffith, Thomas W., to The Boeing Co. Closure and loading device. 3,147,942, 9–8–64, Cl. 244—137.

Griffith, William J., Jr., ½ to C. J. Pruss. Floor sanding apparatus. 3,137,106, 6–16–64, Cl. 51—176.

Griffiths, Edward G., to Camloc Fastener Corp. Modular seam fastener. 3,138,397, 6–23–64, Cl. 292—251.

Griffiths, Edward G., to Camloc Fastener Corp. Push button fastener. 3,152,822, 10–13–64, Cl. 292—61.

Griffiths, Edward G., and N. S. Johnson, to Camloc Fastener Corp. Under-center toggle latch. 3,127,205, 3–31–64, Cl. 292—113.

Griffiths, Edward G., to Camloc Fastener Corp. Push button fastener. 3,156,493, 11–10–64, Cl. 292—164.

Griffiths, Edward H., to Westinghouse Electric Corp. Rotatable spray apparatus. 3,144,209, 8–11–64, Cl. 239—15.

Griffiths, Jack J., and R. S. Challender, to United Kingdom Atomic Energy Authority. Pressure vessels. 3,127,046, 3–31–64, Cl. 220—3.

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Griffiths, Kenneth F., ½ to J. L. Kerby. Method and apparatus for countercurrent washing of solid particles such as crystals. 3,117,031, 1–7–64, Cl. 134—25.

Griffitts, James J., and J. C. Hobbs, to Dade Reagents, Inc. Method of forming a lancet. 3,143,793, 8–11–64, Cl. 29—417.

Grifo, Richard A., R. L. Mayhew, A. Stefcik, and F. E. Woodward, to General Aniline & Film Corp. Heavy duty detergent compositions. 3,122,508, 2–25–64, Cl. 252—135.

Grigas, Daniel P., and A. P. Martin. Apparatus for applying metallic siding. 3,131,513, 5–5–64, Cl. 50—218.

Griggs, Glenn E., to Jennings Radio Mfg. Corp. Combined linear and rotary actuator means for switch. 3,145,278, 8–18–64, Cl. 200—102.

Griggs, John J., and R. C. Scott. Motor driven oscillating bassinet support. 3,125,767, 3–24–64, Cl. 5—109.

Griggs, John O., Jr., to Burroughs Corp. Regenerative pulse switching and current driver circuit. 3,151,545, 10–6–64, Cl. 101—93.

Griggs, William H., A. H. Gray, and R. D. Zaffrann, to Eastman Kodak Co. Photographic paper prepared from partially acylated cellulose fibers. 3,132,944, 5–12–64, Cl. 96—85.

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Grillot, Homer N., to International Harvester Co. Auger shroud for hay baler. 3,132,459, 5–12–64, Cl. 56—341.

Grillot, Homer N., and J. R. Timberlake, to International Harvester Co. Wire twister for balers. 3,119,323, 1–28–64, Cl. 100—4.

Grim, George B., to Caterpillar Tractor Co. Cooling means for internal combustion engines. 3,155,084, 11–3–64, Cl. 123—41.77.

Grim, John V. and R. R., to Grim Mfg., Inc. Vehicle means for elongated and/or heavy objects. 3,123,380. 3–3–64, Cl. 280—404.

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Grim, Richard R.: *See*—
Grim, John V. and R. R. 3,123,380.

Grimes, David D., to The Richards Corp. Film cleaning apparatus. 3,158,886, 12–1–64, Cl. 15—100.

Grimes, Elmer W. Dining table. 3,152,599, 10–13–64, Cl. 134—115.

Grimes, John J., Jr., and W. A. Lucht, to United States Steel Corp. Method for treatment of lubricated stranded wire structures. 3,154,440, 10–27–64, Cl. 148—16.

Grimes, Merwyn E., to International Minerals & Chemical Corp. Material sampling apparatus. 3,128,629, 4–14–64, Cl. 73—423.

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Grimes, Patrick G., and J. G. Seibold, to Allis-Chalmers Mfg. Co. Nontoxic liquid fuel cell. 3,163,560, 12–29–64, Cl. 136—86.

Grimes, Robert C. Machines for washing continuous textile lengths. 3,145,554, 8–25–64, Cl. 68—22.

Grimes, Robert C. Machines for washing continuous textile lengths. 3,162,033, 12–22–64, Cl. 68—22.

Grimes, William H., F. R. Scroop, L. P. Shapleigh, Jr., and S. E. Stone, to Whirlpool Corp. Apparatus for making clear ice bodies. 3,146,606, 9–1–64, Cl. 62—233.

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Grimm, David W., and J. Rath, to Kaynar Mfg. Co., Inc. Floating anchor nut. 3,123,120, 3–3–64, Cl. 151—41.7.

Grimm, David W., E. W. Bergere, and J. Rath, to Kaynar Mfg. Co., Inc. Self-staking fastener having alternate teeth and lands. 3,133,579, 5–19–64, Cl. 151—41.73.

Grimm, Eric, to Associated Patentees, Inc. Slide feeds. 3,161,338, 12–15–64, Cl. 226—163.

Grimm, George W., and P. J. McKeown, to Sperry Rand Corp., Ford Instrument Co. Division. System for determining vehicle parameters. 3,155,937, 11–3–64, Cl. 340—6.

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Grimm, Jack K.: *See*—
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Grimm, James J., and H. E. Trumbull, to Xerox Corp. Xerographic developing apparatus. 3,122,454, 2–25–64, Cl. 118—637.

Grimm, James J., and H. E. Trumbull, to Xerox Corp. Xerographic toner dispenser. 3,122,455, 2–25–64, Cl. 118—637.

Grimm, James J., and D. R. Forry, to Angelica Uniform Co. Method and apparatus for manufacturing garments. 3,156,927, 11–17–64, Cl. 2—243.

Grimm, Otto, to Rohm & Haas G.m.b.H. Treatment of hides. 3,133,002, 5–12–64, Cl. 195—6.

Grimm, Phillip R., to The Dole Valve Co. Continuous flow dispenser valve. 3,151,776, 10–6–64, Cl. 222—67.

Grimm, Ralph J.: *See*—
Skoglund, Douglas M., Petersen, and Grimm. 3,121,357.

Grimmeiss, Hermann G.: *See*—
Rabenau, Albrecht K. 3,152,992.

Grimmett, Earl S., to United States of America, Atomic Energy Commission. Pulse column. 3,116,980, 1–7–64, Cl. 23—270.

Grimnes, Knut, to SINTEF. Apparatus for calculation of depth, trim, bending moment and shearing stress in a loaded ship. 3,128,375, 4–7–64, Cl. 235—179.

Grimsby, Frank N.: *See*—
Kurhajec, George A., and Grimsby. 3,140,312.

Grimshaw, Charles, to General Electric Co. Thermally responsive switch. 3,123,697, 3–3–64, Cl. 200—137.

Grimshaw, Norman, to Vitafoam Ltd. Cushion supporting members. 3,125,156, 3–17–64, Cl. 160—382.

Grimsinger, Raymond C. Method of bending printed electrical circuit panels. 3,132,982, 5–12–64, Cl. 156—211.

Grimsley, Arvid K., to American Can Co. Container cap. 3,129,839, 4–21–64, Cl. 220—42.

Grindheim, Earl A., A. J. Stenstrom, and R. L. Walus, to R. L. Gannon. Body function sensors. 3,154,066, 10–27–64, Cl. 128—2.05.

Grindle, Eugene L., to United Aircraft Corp. Hydraulic propeller system. 3,163,232, 12–29–64, Cl. 170—160.2.

Grindrod, Paul E.: *See*—
Goller, Robert L., Hamm, and Grindrod. 3,131,069.

Griner, Arthur J., to National Biscuit Co. Metering apparatus. 3,155,221, 11–3–64, Cl. 198—34.

Gring, John L., to Sinclair Research Inc. Process for preparing alumina-based catalysts. 3,152,091, 10–6–64, Cl. 252—464.

Gringer, Donald, to Allway Mfg. Co., Inc. Four edge hand scraper. 3,162,947, 12–29–64, Cl. 30—171.

Gringras, Michel, to Compagnie de Saint-Gobain. Injection molding of fabric reinforced plastics. 3,137,750, 6–16–64, Cl. 264—257.

Grinnell Corp.: *See*—
Boteler, Henry W. 3,134,571.
Boteler, Henry W. 3,154,289.
Hanson, Eric P., Merdinyan, and Milligan. 3,133,330.
Maguire, Philip F., Jr. 3,127,911.
Maguire, Philip F., Jr. 3,142,856.
Maguire, Philip F., Jr., and Magson. 3,156,264.
Merdinyan, Philip H. 3,135,332.
Sherburne, Philip C. 3,140,848.
Sherburne, Philip C. 3,155,051.
Sherburne, Philip C. 3,157,966.

Grinnell, Russell, Jr. Compound uniflow steam engine. 3,137,211, 6–16–64, Cl. 91—163.

Grinstead, Aline C.: *See*—
Grinstead, Henry L. 3,148,899.

Grinstead, Henry L., deceased; A. C. Grinstead, legal heir of said H. L. Grinstead. Junction box connector. 3,148,899, 9–15–64, Cl. 285—159.

Grinstead, Robert R.: *See*—
Surls, Joseph P., Jr., and Grinstead. 3,145,081.

Grintz, Joseph J. Grocery bag loader. 3,161,003, 12–15–64, Cl. 53—255.

Grinzenberger, Ernst, to A. Charwat. Shot cartridge with tracer means. 3,142,254, 7–28–64, Cl. 102—42.

Griot, Rudolf, J. Renz, J. Bourquin, and E. Schenker, to Sandoz Ltd. 8-(benzoyloxy)-quinolines. 3,136,768, 6–9–64, Cl. 260—287.
Griparis, Andrew G. Tank sprayer. 3,139,100, 6–30–64, Cl. 134—169.
Grippi, Vincent, Jr., to B. Reichart. Sponge collector and counter. 3,146,944, 9–1–64, Cl. 235—98.
Griscom, David L.: *See*—
Silliman, Sheldon D., and Griscom. 3,144,568.
Grishman, Simon, to William Gluckin & Co., Inc. Girdles with interior bands. 3,144,870, 8–18–64, Cl. 128—527.
Grisley, Daniel W., Jr., to Monsanto Co. Method for producing hydroxythiobenzoic acids and esters thereof. 3,136,-800, 6–9–64, Cl. 260—455.
Grisley, Daniel W., Jr., to Monsanto Co. Methods for preparing S-alkyl-O-arylthiolcarbonates. 3,151,145, 9–29–64, Cl. 260—455.
Grisley, Daniel W., and J. A. Stephens, to Monsanto Co. Method for preparing substituted thiolcarbamates. 3,151,119, 9–29–64, Cl. 260—293.4.
Grist, Franklin J. Toy sounding space helmet. 3,150,461, 9–29–64, Cl. 46—232.
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Griswold, David E., and Wingert. 3,131,716.
Griswold, David E., to D. G. Griswold. Modulating valve control systems. 3,136,333, 6–9–64, Cl. 137—489.
Griswold, David E., and J. L. Wingert, to Griswold Controls. Flow control valves. 3,131,716, 5–5–64, Cl. 137—503.
Griswold, Donald G.: *See*—
Griswold, David E. 3,136,333.
Griswold, Lee M. 3,140,720.
Skidgel, John R. 3,149,784.
Griswold, Hector W., to Johnson & Johnson. Fibrous materials and methods of making the same. 3,120,449, 2–4–64, Cl. 117—38.
Griswold, Hector W., to Johnson & Johnson. Absorbent dressing. 3,123,076, 3–3–64, Cl. 128—290.
Griswold, Lee M., to D. G. Griswold. Fluid distribution control system. 3,140,720, 7–14–64, Cl. 137—59.
Griswold, Lee M., to Digital Sensors Inc. Means and techniques for making electrical connections. 3,155,809, 11–3–64, Cl. 219—86.
Griswold, Lyman W., to United States of America, Navy. Omnidirectional electromagnetic flowmeter. 3,161,047, 12–15–64, Cl. 73—189.
Griswold, Paul H., Jr., and W. S. Struve, to E. I. du Pont de Nemours and Co. Process for preparing dialkyl 2,5-diarylamino-3,6-dihydroterephthalates. 3,156,719, 11–10–64, Cl. 260—471.
Griswold, Stanley M., to United Shoe Machinery Corp. Stiffener material for shoes and method of making. 3,149,022, 9–15–64, Cl. 162—108.
Gritzner-Kayser Aktiengesellschaft: *See*—
Gugelot, Hans, and Lindinger. 3,117,391.
Meier, Günther. 3,130,697.
Groat, Marshall O., to Kingsberry Homes Corp. Vehicle for transporting components of prefabricated buildings and the like. 3,157,426, 11–17–64, Cl. 296—3.
Grob, Benjamin. Grooving method and apparatus. 3,142,-207, 7–28–64, Cl. 80—16.
Grob, Cyril, and E. Jenny, to Ciba Corp. Process for manufacture of unsaturated aliphatic amino-diols, and nitro intermediate. 3,118,946, 1–21–64, Cl. 260—584.
Grob, Cyril, and E. F. Jenny, to Ciba Corp. Process for the manufacture of β-nitroethanol. 3,162,691, 12–22–64, Cl. 260—638.
Grob, William H. F.: *See*—
Davis, John S., and Grob. 3,119,484.
Groce, Douglas C., to International Business Machines Corp. Digitalization system for multi-track optical character sensing. 3,159,815, 12–1–64, Cl. 340—146.3.
Grocerette Vending Machines, Inc.: *See*—
Shield, Lansing P., and Just. 3,128,909.
Groen, Frederick H., Jr., and H. F. Reiman, to Groen Mfg. Co. Ball valve. 3,148,695, 9–15–64, Cl. 137—315.
Groen Mfg. Co.: *See*—
Groen, Frederick H., Jr., and Reiman. 3,148,695.
Groene, Heinz, and G. Pampus, to Farbenfabriken Bayer Aktiengesellschaft. Polymerization of conjugated diolefines. 3,149,099, 9–15–64, Cl. 260—94.2.
Groenendyke, Goethe M., to Socony Mobil Oil Co., Inc. Methods and apparatus for seismic section recording. 3,129,404, 4–14–64, Cl. 340—15.5.
Groenewald, Henry D., Jr., to Deere & Co. Pitman drive for bale thrower. 3,139,999, 7–7–64, Cl. 214—83.3.
Groenewegen, Johannes B., to Consolidated Electrodynamics Corp. Tape guidance system. 3,140,029, 7–7–64, Cl. 226—88.
Groenewegen, Johannes B., to Consolidated Electrodynamics Corp. Tape tension sensing apparatus. 3,155,339, 11–3–64, Cl. 242—75.51.
Groening, Harvey F.: *See*—
Shaffery, Raymond J., Smith, and Groening. 3,134,644.
Gröernkvist, Ernst G., to Atlas Copco Aktiebolag. Apparatus for remote control of a number of operations. 3,144,-176, 8–11–64, Cl. 222—195.
Groesbeck, Burt J. Means for switching railroad cars for connection with a moving train. 3,134,341, 5–26–64, Cl. 104—147.
Groetschel, Karl M. Hydraulic mine prop. 3,145,964, 8–25–64, Cl. 248—354.
Groetschel, Karl M. Connection for lagging irons. 3,163,011, 12–29–64, Cl. 61—45.
Groetzner, Kurt: *See*—
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Groff, Gaylord L., and H. M. Bond, to Minnesota Mining and Mfg. Co. Pressure-sensitive adhesive tape. 3,118,534, 1–21–64, Cl. 206—59.
Grogan, Charles H.: *See*—
Rice, Leonard M., and Grogan. 3,154,590.
Grogan, Charles H., and L. M. Rice, to The Geschickter Fund for Medical Research. Therapeutically active N-substituted azaspiranes. 3,150,143, 9–22–64, Cl. 260—293.
Grogan, Dennis W. Combination scriber and punch. 3,152,396, 10–13–64, Cl. 30—164.9.
Grogan, Edward M., to United States Steel Corp. Continuous switching for control systems. 3,127,103, 3–31–64, Cl. 236—1.
Grogan, John E., and G. A. Parseghian, to Power Brushes, Inc. Cylindrical brush construction. 3,139,641, 7–7–64, Cl. 15—182.
Grogan, Marvin E. Mail container. 3,131,841, 5–5–64, Cl. 224—5.
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Grogel, Merrill A., to Reynolds Metals Co. Container with flat hems at the corners thereof. 3,142,413, 7–28–64, Cl. 220—67.
Grogoza, William: *See*—
McKean, Lowell E., and Grogoza. 3,131,860.
Groh, Edward F., to United States of America, Atomic Energy Commission. Fuel assembly for low power reactors. 3,145,-151, 8–18–64, Cl. 176—75.
Grohall, Raymond E., to Penn Controls, Inc. Gas-fueled dust-incinerating pilot burner. 3,143,164, 8–4–64, Cl. 158—115.
Grohoski, Edward G.: *See*—
Morton, Robert D., and Grohoski. 3,117,473.
Grolig, Richard A. Zipper hook. 3,145,041, 8–18–64, Cl. 294—19.
Groll, Thomas F., Jr.: *See*—
Altscher, Siegfried, and Groll. 3,124,602.
Grolman, Bernard, to American Optical Co. Refractionists optical center location device. 3,163,358, 12–29–64, Cl. 235—89.
Gronberg, Anton B. Screen device in cutters for disintegrating straw and similar material. 3,137,332, 6–16–64, Cl. 146—117.
Gronberg, Anton B. Straw cutter. 3,139,918, 7–7–64, Cl. 146—121.
Grondin, George F., to Collins Radio Co. Small gap data tape communication system. 3,131,377, 4–28–64, Cl. 340—172.5.
Grondin, George F., to Collins Radio Co. Synchronous communication system with nonsynchronous terminals. 3,139,-607, 6–30–64, Cl. 340—172.5.
Grondin, George F., and R. L. McGhie, to Collins Radio Co. Variable bit-rate converter. 3,135,947, 6–2–64, Cl. 340—172.5.
Grone, Heinz: *See*—
Pampus, Gottfried, Grone, and Witte. 3,163,630.
Groneman, Norman A., and E. A. Sederberg, to E. L. Reibold Agency, Inc. Tubular article for decorative or structural purposes. 3,131,792, 5–5–64, Cl. 189—34.
Gronemeyer, Herbert W., to Armco Steel Corp. Machine for hot forming scale free metallic articles. 3,117,328, 1–14–64, Cl. 10—76.
Gronemeyer, Herbert W., Jr.: *See*—
Broderson, Dean E., and Gronemeyer. 3,147,993.
Pitman, Raymond F., Broderson, and Gronemeyer. 3,128,883.
Grönert, Paul, to Knotex Maschinenbau Gesellschaft mit beschränkter Haftung. Adjustable thread separating needle for warp tying-in machines. 3,120,691, 2–11–64, Cl. 28—49.
Grönert, Paul, to Knotex Maschinenbau Gesellschaft mit beschränkter Haftung. Device in a warp tying machine. 3,138,396, 6–23–64, Cl. 289—12.
Grönlund, Sven O. Roof seaming machine. 3,120,828, 2–11–64, Cl. 113—55.
Gronneberg, Roar. Card dealing apparatus including reciprocating pusher and cooperating rollers. 3,131,935, 5–5–64, Cl. 273—149.
Grontkowski, Ray B., to Signal-Stat Corp. Portable flasher lamp with photo-cell controlled transistor oscillator circuit. 3,139,556, 6–30–64, Cl. 315—158.
Groom, David W. Bare wire transmission arrangement. 3,128,331, 4–7–64, Cl. 174—43.
Groom, Ivan H.: *See*—
Fisher, Homer. 3,123,956.
Groomer, Gary J.: *See*—
Groomer, Jesse J., G. J. and M. M. 3,156,943.
Groomer, Jesse J., G. J. and M. M. Molded article. 3,156,-943, 11–17–64, Cl. 16—110.
Groomer, Mildred M.: *See*—
Groomer, Jesse J., G. J. and M. M. 3,156,943.
Groos, Horst H.: *See*—
Haverkamp, Bernhard, and Groos. 3,161,756.
Groot, John K., to Wilson Athletic Goods Mfg. Co., Inc. Accessory pad for use on football shoulder pads. 3,144,657, 8–18–64, Cl. 2—2.
Grooteboer, Wilhelm, to International Standard Electric Corp. Ferrite matrix storage. 3,144,640, 8–11–64, Cl. 340—174.
Grooteboer, Wilhelm, to International Standard Electric Corp. Ferrite matrix storing devices with individual core reading and interference-pulse compensation. 3,161,860, 12–15–64, Cl. 340—174.

Groothuis, Hendrik: *See*—
Reman, Gerrit H., and Groothuis. 3,159,571.
Groover, Lauren F., to Poly-Choke Co., Inc. Auxiliary gun barrel. 3,138,889, 6–30–64, Cl. 42—77.
Groover, Lauren F., to The Poly-Choke Co., Inc. Ejector for shotgun. 3,142,125, 7–28–64, Cl. 42—47.
Gropp, Karl H., to Ford Motor Co. Valve gear. 3,150,648, 9–29–64, Cl. 123—90.
Gros, Charles, to Neyrpic (Ateliers Neyret-Beylier & Piccard-Pictet) Etablissements. Hydroelectric groups. 3,118,281, 1–21–64, Cl. 60—55.
Gros, Charles, and R. Vallier, to Societe a Responsabilite Limitee Helicotule. Metal welding. 3,118,049, 1–14–64, Cl. 219—93.
Gros, Hermann, to Maybach-Motorenbau G.m.b.H. Hydro-mechanical compound transmission with reversing gear means. 3,159,054, 12–1–64, Cl. 74—732.
Grose, Basil H.: *See*—
Coley, James P., Grose, Hurst, and White. 3,122,723.
Grose, Edward J. Two way door assembly. 3,138,829, 6–30–64, Cl. 20—16.
Grosfillex, Freres, Societe a responsabilite limitee dite: *See*—
Grosfillex, Raymond. 3,146,028.
Grosfillex, Raymond, to Grosfillex Freres, Societe a responsabilite limitee dite. Collapsible seat. 3,146,028, 8–25–64, Cl. 297—440.
Grosh, Jack F. Metal punching apparatus. 3,122,044, 2–25–64. Cl. 83—588.
Grosh, James L., to United Aircraft Corp. Variable burning rate charge. 3,136,120, 6–9–64, Cl. 60—35.6.
Grosjean, Arnold, to Paillard S.A. Device for adjusting the diaphragm of an objective. 3,135,185, 6–2–64, Cl. 95—64.
Gross, Bernhard, ½ to P. V. Murphy. Method and apparatus for measuring the dosage of X-rays and gamma rays. 3,122,640, 2–25–64, Cl. 250—83.3.
Gross, Frank J.: *See*—
Shaw, John T., Gross, and Madison. 3,130,193.
Gross, Frank J., to Allis-Chalmers Mfg. Co. Method of bearing alignment. 3,126,614, 3–31–64, Cl. 29—149.5.
Gross, Frank J., to Allis-Chalmers Mfg. Co. Trash retainer for movable trash rake. 3,152,075, 10–6–64, Cl. 210—159.
Gross, Franz, to Siemens & Halske Aktiengesellschaft. Delay line for travelling wave tubes. 3,157,814, 11–17–64, Cl. 315—3.5.
Gross, Franz, and H. Heynisch, to Siemens & Halske Aktiengesellschaft. Travelling wave tube including tuning slide within adjoining waveguide section. 3,151,267, 9–29–64, Cl. 315—3.5.
Gross, George E. Submersible device. 3,123,652, 3–3–64, Cl. 261—28.
Gross, George E. Air source for a skin diver. 3,124,131, 3–10–64, Cl. 128—145.
Gross, George E. Aerator beater. 3,133,976, 5–19–64, Cl. 261—32.
Gross, George E., and W. F. Cramer, Jr. Impeller device. 3,123,651, 3–3–64, Cl. 261—24.
Gross, Helmut, to G. M. Pfaff, AG. Loop taker adjusting mechanism for chainstitch sewing machines. 3,141,427, 7–21–64, Cl. 112—200.
Gross, Herbert L. Water kite device. 3,140,555, 7–14–64, Cl. 43—43.13.
Gross, Horst-Hans: *See*—
Krause, Gerhard P., and Groos. 3,143,211.
Gross, Howard H.: *See*—
Arnold, George B., and Gross. 3,132,093.
Gross, Jenoe. Plasma torch. 3,158,729, 11–24–64, Cl. 219—75.
Gross, Jerome A. Spring-held mattress foundation support structure. 3,116,495, 1–7–64, Cl. 5—207.
Gross, Johann: *See*—
Jewell, Randolph J., Robbins, Gross, and Elsom. 3,153,-519.
Gross, John H., to United States Steel Corp. Fracture tough ultra high strength steel sheets. 3,152,020, 10–6–64, Cl. 148—36.
Gross, Kenneth E., and R. E. Fuhrman, to Borg-Warner Corp. Control devices for thermoelectric means. 3,131,545, 5–5–64, Cl. 62—3.
Gross, Maurice J., to Barnes Drill Co. Workpiece locator. 3,122,866, 3–3–64, Cl. 51—227.
Gross, Maurice J., to Barnes Drill Co. Fixture for holding workpieces. 3,122,867, 3–3–64, Cl. 51—227.
Gross, Maynard C.: *See*—
Forester, Harold E., Smitzer, and Gross. 3,119,318.
Gross, Peter L.: *See*—
Braithwaite, David G., D'Amico, Gross, and Hanzel. 3,141,841.
Gross, Richard: *See*—
Dreyer, Ulrich, and Gross. 3,133,051.
Gross, Wayne B.: *See*—
Kretzmer, Minor G., Jr., Davis, and Gross. 3,140,783.
Gross, William B., to Performance Measurements Co. Digital force transducer. 3,142,981, 8–4–64, Cl. 73—141.
Grossberg, Marc E. Teeth protector. 3,124,129, 3–10–64, Cl. 128—136.
Grosse, Aristid V., and A. G. Streng, to Research Institute of Temple University. Method of developing high energy thrust. 3,137,127, 6–16–64, Cl. 60—35.3.
Grosse, Orville H.: *See*—
Russell, James D., Muehlfelt, Grosse, and Ott. 3,157,577.
Grossenheider, Howard C., and R. R. Kolkau, to Zenith Radio Corp. Tuner mechanism. 3,162,054, 12–22–64, Cl. 74—10.6.
Grosser, Hermann K. M., and F. J. Schramel, to North American Philips Co., Inc. System for selectively registering the operating periods of a plurality of consuming apparatus. 3,161,761, 12–15–64, Cl. 235—92.
Grosser, Edward M. Knockdown marble railway toy. 3,145,-501, 8–25–64, Cl. 46—17.
Grosser, Frederick, and M. R. Leibowitz, to General Aniline & Film Corp. Process for polymerizing N-vinyl lactams. 3,129,210, 4–14–64, Cl. 260—88.3.
Grosser, Frederick, and J. Susko, to General Aniline & Film Corp. Insoluble polymeric-iodine complexes. 3,136,755, 6–9–64, Cl. 260—239.3.
Grosshans, Georges: *See*—
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Grossich, Ernest: *See*—
Krahn, Leo G., and Grossich. 3,129,805.
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Benning, Anton, Dolling, and Grosskinsky. 3,150,171.
Grosskopf, Alfred. Shipping container for printed matter. 3,137,386, 6–16–64, Cl. 206—45.31.
Grosskopf, Karl F., to O. H. Drager. Reagent carrier for gas detecting tubes. 3,131,030, 4–28–64, Cl. 23—254.
Grossman, Abraham. Lock construction for narrow stile glass entry doors. 3,119,474, 1–28–64, Cl. 189—46.
Grossman, David H.: *See*—
Goldfischer, Lester I., Grossman, and Pincus. 3,134,-081.
Grossman, Evelyn. Heel protector. 3,122,848, 3–3–64, Cl. 36—7.3.
Grossman, Jacob: *See*—
Wolfson, Sherman L., and Grossman. 3,139,187.
Grossman, James D., and A. Bavley, to Philip Morris, Inc. Tobacco product. 3,139,888, 7–7–64, Cl. 131—17.
Grossman, Jerome H., to Penobscot Shoe Co. Easily lasted moccasion construction. 3,137,951, 6–23–64, Cl. 36—11.
Grossman, John S. Adjustable door strike. 3,126,221, 3–24–64, Cl. 292—341.18.
Grossman, Lester A. Paper or like drinking cup. 3,152,743, 10–13–64, Cl. 229—1.5.
Grossman, Norman, to Litton Industries, Inc. Printed circuit processing. 3,152,388, 10–13–64, Cl. 29—155.5.
Grossnickle, Garold E., to The Bendix Corp. Railway car truck link. 3,162,275, 12–22–64, Cl. 188—129.
Groszek, Aleksander: *See*—
Zalichi, Demetrios T. E., and Groszek. 3,132,108.
Groszek, Aleksander, and J. R. Lodwick, to The British Petroleum Co. Ltd. Isolation of new surface active materials. 3,132,107, 5–5–64, Cl. 252—351.
Grotewold, Hans W., to FMC Corp. Apparatus for processing fruit. 3,132,750, 5–12–64, Cl. 214—1.
Grotewold, Hans W., to FMC Corp. Apparatus for sectionizing citrus fruit. 3,151,643, 10–6–64, Cl. 146—3.
Grotewold, Hans W., to FMC Corp. Fruit clamping mechanism. 3,151,734, 10–6–64, Cl. 198—210.
Groth, Edward J., Jr., to Motorola, Inc. Computing system. 3,150,372, 9–22–64, Cl. 343—112.
Groth, Hans F. A., to Burroughs Corp. High speed stepping apparatus. 3,139,549, 6–30–64, Cl. 310—97.
Groth, Richard H.: *See*—
Clarke, Richard G., Groth, and Duzak. 3,141,729.
Groth, Roderick W. Swing. 3,130,969, 4–28–64, Cl. 272—85.
Groth, Vernon C.: *See*—
Moonan, William, and Groth. 3,162,370.
Grotjahn, Heinz: *See*—
Schrode, Hans, Grotjahn, and Heuer. 3,129,129.
Grotta, Henry M., to Martin-Marietta Corp. Separation of isomeric dinitrocarbazoles. 3,144,462, 8–11–64, Cl. 260—318.
Grotta, Henry M., and M. N. Lugasch, deceased (by P. T. Lugasch, heir), to Martin-Marietta Corp. Diazidocarbazoledisulfonic acids and method for making same. 3,154,-559, 10–27–64, Cl. 260—315.
Grotto, Edward C.: *See*—
Weihe, Clyde R., Jr., and Grotto. 3,117,668.
Grotzinger, Lester G., to Carrier Corp. Thrust bearing construction. 3,132,908, 5–12–64, Cl. 308—160.
Groulx, M. Germain: *See*—
Moxness, Melvin F., and Groulx. 3,130,996.
Grout, Kenneth M. Pressurized dispenser having disposable cartridge. 3,124,276, 3–10–64, Cl. 222—183.
Grout, Russell A., and C. E. Ayotte, to Ford Motor Co. Ventilator. 3,125,941, 3–24–64, Cl. 98—18.
Grove, Earl I., to Gar Wood Industries, Inc. Welding cable with improved conductor orientation adjacent the terminals. 3,156,760, 11–10–64, Cl. 174—15.
Grove, Marvin H. Valve construction. 3,121,553, 2–18–64, Cl. 251—172.
Grove, Marvin H. Clamped gate valve body. 3,158,352, 11–24–64, Cl. 251—329.
Grover, John H., and J. R. MacPherson, to Atlantic Research Corp. Rocket motor. 3,122,884, 3–3–64, Cl. 60—35.6.
Grover, Martin M.: *See*—
Been, Jerome L., and Grover. Re. 25,625.
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Grover, Philip D. Motion converting device. 3,124,009, 3–10–64, Cl. 74—99.
Grover, Raymond B. Die raising and changing device. 3,139,-676, 7–7–64, Cl. 29—256.
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Groves, Kenneth O., to The Dow Chemical Co. Preparation of a lithium perchlorate-hydrazine coordination compound. 3,146,062, 8–25–64, Cl. 23—14.
Groves, Kenneth O., to The Dow Chemical Co. Preparation of a hydroxylamine coordination compound. 3,148,940, 9–15–64, Cl. 23—14.
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Gruber, Jerome M., and W. W. Gardner, to Waukesha Bearings Corp. Indicator systems for use in thrust bearings having resonance changer piston. 3,129,417, 4–14–64, Cl. 340—282.
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Cole, Halbert N., and Gruber. 3,127,414.
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Grudoski, Daniel P., to Blazon, Inc. Playground swing. 3,145,013, 8–18–64, Cl. 248—370.
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Gruner, Frederick R., and J. D. Abeles, to Purolator Products, Inc. Filter. 3,125,515, 3–17–64, Cl. 210—493.
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Grunfeld, Michael, to Tubular Structures Corp. of America. Builder's hoist. 3,157,997, 11–24–64, Cl. 60—53.
Grunfelder, Jean, to Sud-Aviation, Societe Nationale de Constructions Aeronautiques. Apparatus for supporting and holding foldable rotor blades of helicopters. 3,133,715, 5–19–64, Cl. 244—17.11.
Grunfelder, Jean, to Sud-Aviation Societe Nationale de Constructions Aeronautiques. Helicopter rotors. 3,158,203, 11–24–64, Cl. 170—160.12.
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Grunwald, Jack O.: *See*—
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Gruschke, Hans, and R. Kretsch-Hothum, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for modifying the properties of shaped structures from highly polymeric polyesters. 3,154,374, 10–27–64, Cl. 8—130.1.
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Guenther, Roman. Pipe organ action. 3,160,051, 12–8–64, Cl. 84—337.

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Guggemos, Kenneth F. Lighting device. 3,145,934, 8–25–64, Cl. 240—25.

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Guinan, Thomas F., to Federal Pacific Electric Co. Ground testing device. 3,161,804, 12–15–64, Cl. 317—99.
Guinard, Paul A., and G. G. J. Berger. Regulating valve for a pump controlled by a pressure responsive switch. 3,141,475, 7–21–64, Cl. 137—568.
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Gustison, Robert A., F. W. Hurd, and R. M. Fowler, to Union Carbide Corp. Solvent extraction process for the recovery of vanadium from solutions. 3,131,993, 5–5–64, Cl. 23—18.
Gustke, John W., to General Motors Corp. Universal joint yoke. 3,138,943, 6–30–64, Cl. 64—27.
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Gut, Stanley J., to General Precision Inc. Hydraulic actuator fitted with pivoted joint. 3,163,093, 12–29–64, Cl. 92—113.
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Gutberlet, Robert C., to Cutler-Hammer, Inc. Mounting structure for electromagnetic contactor. 3,157,765, 11–17–64, Cl. 200—87.
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Guthrie, John C., S. Norman, and R. S. Mahomed, to Courtaulds Ltd. Method of making high bulk yarns. 3,120,095, 2–4–64, Cl. 57—157.
Guthrie, John D., to United States of America, Agriculture. Process for treating cellulosic textiles with formaldehyde in vapor form. 3,154,373, 10–27–64, Cl. 8—116.4.
Guthrie, Lyle D. Means for attachment of a pennant staff to automobiles. 3,127,868, 4–7–64, Cl. 116—173.
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Guthrie, Roger T., to American Enka Corp. Reinforced plastic article with improved surface properties. 3,152,949, 10–13–64, Cl. 161—92.
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Gutkowski, Janusz, and N. Florescu, to New York Business Development Corp. Filter element. 3,152,988, 10–13–64, Cl. 210—486.
Gutleber, Frank S., to International Telephone and Telegraph Corp. Space coded linear array antenna. 3,130,410, 4–21–64, Cl. 343—844.
Gutman, Benjamin. Error correcting typewriter ribbon. 3,143,200, 8–4–64, Cl. 197—172.
Gutman, Louis, to Independent Lock Co. Construction key device. 3,125,878, 3–24–64, Cl. 70—383.
Gutmann, Hugo, and B. Hegedus, to Hoffmann-La Roche Inc. Sulfonic acid hydrazides. 3,130,226, 4–21–64, Cl. 260—556.
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Gutridge, Jack E., to Pullman Inc. Skeleton car with long travel cushioning characteristics for transporting freight containers. 3,163,129, 12–29–64, Cl. 105—368.
Gutridge, Jack E., and R. B. Bergstrand, to Pullman Inc. Container locking devices and assemblies. 3,129,672, 4–21–64, Cl. 105—366.
Gutridge, Jack E., and W. R. Hummel, to Pullman Inc. Highway-railway transportation apparatus. 3,130,688, 4–28–64, Cl. 105—368.
Gutridge, Jack E., and R. M. Sherrie, to Pullman Inc. Stanchion operating mechanism. 3,142,466, 7–28–64, Cl. 248—119.
Gutridge, Jack E., and J. W. Borger, to Pullman Inc. Fifth wheel stand. 3,143,083, 8–4–64, Cl. 105—368.
Gutridge, Jack E., and K. J. Austgen, to Pullman Inc. Container attachment device for railway cars. 3,159,111, 12–1–64, Cl. 105—366.
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Gutschmit, Alan, to Alamac Knitting Mills, Inc. Knitting machine. 3,122,905, 3–3–64, Cl. 66—50.
Gutsell, Erwin S., Jr., and B. J. Magerlein, to The Upjohn Co. 21-hemi-α,β-dialkylsuccinates of corticoids. 3,163,-664, 12–29–64, Cl. 260—397.45.
Gutshall, James G. Seat belt buckle. 3,146,846, 9–1–64, Cl. 180—82.
Guttag, Alvin, to Weston Chemical Corp. Filter. 3,120,849, 2–11–64, Cl. 131—10.
Guttag, Alvin, to Union Carbide Corp. Phaphites and phosphonates of hydroxyalkyl and hydroxyalkoxyalkyl isocyanurates. 3,121,082, 2–11–64, Cl. 260—248.
Guttag, Alvin, to Union Carbide Corp. Polyoxyalkylated phenol-ketone and phenol-aldehyde phosphorus containing resins. 3,127,373, 3–31–64, Cl. 260—50.
Guttag, Alvin, to Union Carbide Corp. Polyurethane from phenol-aldehyde resins containing phosphorus. 3,144,419, 8–11–64, Cl. 260—2.5.
Gütter, Ernst, to C. Zeiss. Means for automatically controlling the exposure time of charge carrier beam apparatus. 3,137,791, 6–16–64, Cl. 250—49.5.
Gutterman, Robert P., to Sperry Rand Corp. Information storage device. 3,130,393, 4–21–64, Cl. 340—174.1.
Guttman, Milton. Storm shield and screen unit for windows and doors. 3,139,923, 7–7–64, Cl. 160—89.
Gutzeit, Gregoire, and W. G. Lee, to General American Transportation Corp. Chemical nickel plating of magnesium and its alloys. 3,121,644, 2–18–64, Cl. 117—130.
Guy, Arthur L.: *See*—
Parker, Leon B., and Guy. 3,134,234.
Parker, Leon B., and Guy. 3,134,235.
Guy, Kenneth T., to Rotax Ltd. Compressed air or other gas control valves. 3,119,405, 1–28–64, Cl. 137—219.
Guy, Roger, to Compagnie de Saint-Gobain. Polychrome television screen and process of manufacture. 3,160,774, 12–8–64, Cl. 313—92.
Guyenot, Ernst, and E. Hahn, to VEB, Jeana, Carl Zeiss. Intensity measuring and/or recording devices for corpuscular radiation apparatus, particularly electron microscopes. 3,134,899, 5–26–64, Cl. 250—49.5.
Guyer, August, P. Matile, E. Peterhans, and W. Zollinger, to Lonza Electric and Chemical Works Ltd. Process for the pressure synthesis of urea. 3,137,724, 6–16–64, Cl. 260—555.
Guyer, Reynolds, to Waldorf Paper Products Co. Dispensing carton. 3,127,083, 3–31–64, Cl. 229—11.
Guze, Oscar, Jr. Burglar proof safe locking bolt assembly. 3,158,017, 11–24–64, Cl. 70—119.
Guzewicz, Edmund A., to Chandler Evans Corp. Anti-friction bearings and method of constructing same. 3,155,439, 11–3–64, Cl. 308—241.
Guziak, Leonard F., to Koppers Co., Inc. Process for bonding a terpolymer film to a metal substrate. 3,127,296, 3–31–64, Cl. 156—332.
Guzman, Luis H., and R. P. Van Driesen, to Cities Service Research and Development Co. Apparatus for treatment of liquid with gas. 3,124,518, 3–10–64, Cl. 196—46.
Guzzetta, Giuseppe, F. Sabbioni, and G. B. Gechele, to Montecatini Societa Generale per L'Industria Mineraria e Chimica. Depolymerization of styrene in the presence of free radical generating substances. 3,143,536, 8–4–64, Cl. 260—93.5.
Guzzi, Umberto: *See*—
De Ruggieri, Pietro, Gandolfi, and Guzzi. 3,159,618.
Gwillim, David T., to Decca Ltd. Vacuum capstans. 3,151,-795, 10–6–64, Cl. 226—95.
Gwinn, Joseph M., Jr.: *See*—
Coleman, Gerald W., and Gwinn. Re. 25,577.
Gwinn, William C. Manually operated rotary shaver. 3,141,-240, 7–21–64, Cl. 30—43.
Gwyn, Childress B., Jr., and N. S. Hoyer, to Gibson Electric Co. Electrical contact. 3,128,540, 4–14–64, Cl. 29—182.
Gwyn, Childress B., Jr., to Gibson Electric Co. Method of making an electrical contact. 3,139,669, 7–7–64, Cl. 29—155.55.
Gwyn, Childress B., Jr., to Gibson Electric Co. Method of forming electrical contacts. 3,151,385, 10–6–64, Cl. 29—155.55.

Gwynn, Bernard H.: *See*—
Gilbert, William I., Gwynn, Hay, and McNulty. 3,160,-622.
Gwynne, Jacob M. Nailable metal structural members. 3,129,792, 4–21–64, Cl. 189—34.
Gylfe, James D., to North American Aviation, Inc. Fuel-moderator element for a nuclear reactor and method of making. 3,145,150, 8–18–64, Cl. 176—71.
Gynn, George E.: *See*—
Koonz, John C., and Gynn. 3,122,853.
Gynt, Sven, to Allmanna Svenska Elektriska Aktiebolaget. Solid pole for self-starting synchronous motors. 3,127,532, 3–31–64, Cl. 310—183.
Gynt, Sven, to Allmänna Svenska Elektriska Aktiebolaget. Rotor spider for electrical machines. 3,128,403, 4–7–64, Cl. 310—261.
Gyogyszeripari Kutato Laboratorium: *See*—
Vargha, László, and Dumbovich. 3,152,147.
Gyongyosi, Laszlo, to Ingersoll-Rand Co. Drill rod storage and handling means. 3,157,286, 11–17–64, Cl. 211—1.5.
Gyori, Emery A., and L. J. Hammons. Trailer for hauling vehicles. 3,145,043, 8–18–64, Cl. 296—1.
Gyori, Emery A., and L. J. Hammons. Trailer for hauling automobiles. 3,163,459, 12–29–64, Cl. 296—1.
Gyrex Corp., The: *See*—
Hansen, Roy A., and Holt. 3,127,775.
Gyrotor Inc.: *See*—
Shaw, Herbert S. 3,144,906.
Gysin, Hans: *See*—
Knusli, Enrico, Stammbach, and Gysin. 3,122,542.
Gysling, Hermann: *See*—
Zweidler, Reinhard, and Gysling. 3,147,235.
Gyure, Coleman: *See*—
Kuipers, John J., and Gyure. 3,162,249.
H. G. Enterprises: *See*—
Nelkin, Henry G. 3,160,909.
Welter, Grover C. 3,147,751.
H & H Plastics Mfg. Co.: *See*—
Hummel, Raymond J. 3,146,465.
H.J.J. Co.: *See*—
Allen, Philip H. 3,150,699.
Neil, James M. 3,150,698.
H. K. Metalcraft Mfg. Corp.: *See*—
Loeffel, Emil. 3,124,026.
Loeffel, Emil. 3,124,027.
H & L Tooth Co.: *See*—
Launder, Richard L., and Peveler. 3,116,797.
Peveler, France D., and Launder. 3,120,281.
H. & R. Mfg. Co.: *See*—
Maxant, Richard C. 3,162,991.
HRB-Singer, Inc.: *See*—
Ammerman, Charles R., and Larchuk. 3,127,516.
Bates, John K., Jr. 3,161,766.
Benton, Rufus R. C. 3,147,440.
Dickey, Clyde W. 3,145,311.
Duke, Charles E., and Diamant. 3,140,910.
Kline, Donald E. 3,137,633.
Knausenberger, Georg E. 3,120,756.
McLucas, John L. 3,127,610.
H & S Co., Inc.: *See*—
Kennedy, Harry R., Knox, and Engels. 3,160,376.
H & T Electrical Products: *See*—
Trench, Anthony B. 3,149,255.
H_2O International, Inc.: *See*—
Hartman, Thomas L. 3,124,939.
H.V. Developments Ltd.: *See*—
Davis, Oscar B. 3,144,285.
Haaf, Wolfgang, to Studiengesellschaft Kohle m.b.H. Process for the production of N-tert. alkyl amides and, if desired, N-tert. alkyl amines. 3,152,180, 10–6–64, Cl. 260—561.
Haag, Gunther: *See*—
Fleckenstein, Hans, and Haag. 3,127,644.
Haag, Robert T., to Shafer Valve Co. Sealing construction for piston valve. 3,159,378, 12–1–64, Cl. 251—325.
Haag, Theodore T., to Borroughs Mfg. Co. Clothes rack. 3,123,221, 3–3–64, Cl. 211—177.
Haage, Hans-Jurgen: *See*—
Schmitt, Karl, Disteldorf, and Haage. 3,122,541.
Schmitt, Karl, Disteldorf, and Haage. 3,141,884.
Haagen, Eugenie. Skin lift bands. 3,154,071, 10–27–64, Cl. 128—76.
Haagens, Robert G., to Northrop Corp. Viscosity compensator for fluid damping devices. 3,136,163, 6–9–64, Cl. 74—5.5.
Haaker, Lester W.: *See*—
Jelatis, Demetrius G., Olsen, Haaker, and Pearson. 3,139,990.
Haanes, Arnt U. Reciprocatory pneumatic motor. 3,139,-008, 6–30–64, Cl. 91—416.
Haas, Arthur W., to Toledo Scale Corp. Tiltable wash, rinse, and dish rack tracks assembly for a dishwasher. 3,139,095, 6–30–64, Cl. 134—99.
Haas, Arthur W., to Toledo Scale Corp. Dishwashing machines. 3,141,618, 7–21–64, Cl. 239—248.
Haas, Boris, deceased; I., R., Dieter and Detlev Haas, heirs. Turbine blade construction. 3,148,954, 9–15–64, Cl. 29—196.1.
Haas, Detlev: *See*—
Haas, Boris. 3,148,954.
Haas, Dieter: *See*—
Haas, Boris. 3,148,954.
Haas, Eberhard, to August Lapple, G.m.b.H., & Co. Gauging apparatus. 3,153,287, 10–20–64, Cl. 33—174.
Haas, Edgar, to Herman Schwabe, Inc. Mold assembly for molded shoe bottom. 3,141,195, 7–21–64, Cl. 18—17.
Haas, George A., to United States of America, Navy. Matrix emitter for thermionic conversion systems. 3,121,048, 2–11–64, Cl. 252—301.1.
Haas, Gerhard K., to General Motors Corp. Electrical stock removal apparatus. 3,144,540, 8–11–64, Cl. 219—69.
Haas, Gerhard K., and A. R. Disbrow, to General Motors Corp. Electrical stock removal apparatus. 3,144,542, 8–11–64. Cl. 219—69.
Haas, Günter: *See*—
Jöns, Kurt, Haas, and Blume. 3,117,030.
Haas, Herbert H., to Continental Aviation and Engineering Corp. Variable speed governor control. 3,130,599, 4–28–64, Cl. 74—526.
Haas, Hermann. Apparatus for transporting flexible material in a short loop dryer. 3,118,583, 1–21–64, Cl. 226—105.
Haas, Howard C., to Polaroid Corp. Photographic diffusion transfer processes employing image receiving layers containing poly-4-vinylpyridine. 3,148,061, 9–8–64, Cl. 96—29.
Haas, Howard C., to Polaroid Corp. Novel process for the molecular orientation of polymers. 3,153,105, 10–13–64, Cl. 264—2.
Haas, Howard C., and H. G. Rogers, to Polaroid Corp. Photographic products and processes. 3,121,011, 2–11–64, Cl. 96—29.
Haas, Howard G., M. L. Sturm, and L. R. Foster, to Sealy Inc. Weight distribution indicating apparatus. 3,116,637, 1–7–64, Cl. 73—172.
Haas, Howard G., and M. L. Sturm, to Sealy, Inc. Furniture style and fabric selector. 3,135,058, 6–2–64, Cl. 35—53.
Haas, Irene: *See*—
Haas, Boris. 3,148,954.
Haas, Jay C. Knock-down box construction. 3,143,236, 8–4–64, Cl. 217—12.
Haas, John W., G. F. Connelly, and H. R. Van Voorhis, to Eastman Kodak Co. Wound capacitor and method of making. 3,160,801, 12–8–64, 317—258.
Haas, Justin, to Kenner Products Co. Stick form water color painting unit. 3,150,987, 9–29–64, Cl. 106—27.
Haas, Otto, to Weyerhaeuser Co. Carton with replaceable cover. 3,122,299, 2–25–64, Cl. 229—34.
Haas, Otto, Jr., to Weyerhaeuser Co. Sock package. 3,157,-276, 11–17–64, Cl. 206—46.
Haas, Paul: *See*—
Dickson, Herbert F., Jr., and Haas. 3,160,946.
Haas, Renate: *See*—
Haas, Boris. 3,148,954.
Haas, Robert H., and A. J. Tulleners, to Union Oil Co. of California. Hydrocracking process and catalysts. 3,119,-763, 1–28–64, Cl. 208—109.
Haas, Robert H., C. P. Reeg, and F. C. Riddick, Jr., to Union Oil Co. of California. Two stage hydrogenation process. 3,147,210, 9–1–64, Cl. 208—210.
Haas, Ward J.: *See*—
McKeen, John E., and Haas. 3,144,337.
Haas, Wilson E. Structural connector. 3,158,964, 12–1–64, 50—442.
Haase, Elmer A., to The Bendix Corp. Fuel supply system. 3,140,324, 7–7–64, Cl. 261—42.
Haase, Ernst-Gunter, to Bolkow-Entwicklungen Kommanditgesellschaft. Mechanism for actuating a movable flight control surface. 3,146,973, 9–1–64, Cl. 244—87.
Haase, Fritz. Separation of ammonium salt into NH_3 and acid. 3,117,837, 1–14–64, Cl. 23—150.
Haase & Kuhn KG: *See*—
Bennett, William. 3,145,550.
Haase, Kurt H., to United States of America, Air Force. Wave form analyzing method for establishing fourier coefficients. 3,162,808, 12–22–64, Cl. 324—77.
Habare, Serge, to International Harvester Co. Gauge wheel for two-way plow. 3,128,832, 4–14–64, Cl. 172—224.
Habayeb, Abdul R., to Minneapolis-Honeywell Regulator Co. Tunnel diode inverter. 3,131,313, 4–28–64, Cl. 307—88.5.
Habayeb, Abdul R., to Minneapolis-Honeywell Regulator Co. Monostable tunnel diode logic circuit with the output pulse amplitude proportional to the input pulse amplitude. 3,151,253, 9–29–64, Cl. 307—88.5.
Habbena, Carl C. Tray for golf carts. 3,128,021, 4–7–64, Cl. 224—29.
Habe, John L., and M. E. Ullman, Jr., to Mullins Mfg. Corp. Heat shield for built-in ovens. 3,132,638, 5–12–64, Cl. 126—19.
Haber, Edgar. Cardiac monitoring device. 3,144,019, 8–11–64, Cl. 128—2.06.
Haber, Michael. Combined checkbook and cashbook. 3,141,-684, 7–21–64, Cl. 282—8.
Haber, William, and I. L. Freeman. Magnet manipulating pole. 3,129,028, 4–14–64, Cl. 294—19.
Haberkorn, Erich: *See*—
Bölkow, Ludwig, and Haberkorn. 3,155,342.
Haberkorn, Otto, W. Rompel, and O. Roth, to Walther Buromaschinen Gesellschaft m.b.H. Calculating machine with storing mechanism. 3,130,904, 4–28–64, Cl. 235—60.
Haberland, Fred C., and E. A. Moore, to Borg-Warner Corp. Pump drive assembly with fluid seal. 3,124,361, 3–10–64, Cl. 277—8.
Haberle, Walter. Closure device for liquid containers. 3,128,000, 4–7–64, Cl. 215—78.

Haberle, Willi, to Dahpe A.G. Apparatus for the manufacture of containers obtained by deep drawing from a thermoplastic synthetic sheeting. 3,126,583, 3–31–64, Cl. 18—19.
Haberman, Charles E., to The Dow Chemical Co. Stabilized chloroethylene polymer compositions containing an emulsifier and a derivative of an alkylene diamine tetraacetic acid. 3,134,743, 5–26–64, Cl. 260—23.
Haberman, Warren O.: *See*—
Beaver, Bernard F., and Haberman. 3,160,556.
Habermann, Benzion, to Union Oil Co. of California. Secondary recovery by miscible fluid displacement. 3,139,929, 7–7–64, Cl. 166—9.
Habermann, Ewald: *See*—
Conradi, Rudolf, Dopp, Habermann, and Zieher. 3,137,-761.
Habernickel, Valentin, to Henkel & Cie, G.m.b.H. Preparation of peroxy-hydrates. 3,140,149, 7–7–64, Cl. 23—14.
Habeshaw, John, and W. J. Oldham, to British Hydrocarbon Chemical Ltd. Production of conjugated diolefins. 3,146,-278, 8–25–64, Cl. 260—681.
Habicht, Ernst, to Cilag-Chemie Ltd. Novel pyrrolidinediones and process for the production thereof. 3,129,228, 4–14–64, Cl. 260—326.5.
Habicht, Ernst, to Cilag-Chemie Ltd. New amides of 2-arylethanoic acids. 3,157,650, 11–17–64, Cl. 260—247.1.
Habicht, Ernst, and G. Feth, to Cilag-Chemie Ltd. New phenothiazine derivatives and a process for the production thereof. 3,140,284, 7–7–64, Cl. 260—243.
Habicht, Lojo: *See*—
Koczorowski, Eduard, Habicht, and Kluge. 3,151,136.
Habicht, Lojo, and A. Kluge, to Colgate-Palmolive Co. Hair preparations. 3,149,042, 9–15–64, Cl. 167—87.
Habicht, Lojo, and A. Kluge, to Colgate-Palmolive Co. Hair preparations containing a diamide and process of use thereof. 3,149,338, 9–15–64, Cl. 167—87.
Habisohn, Victor J., to International Telephone and Telegraph Corp. Communication classification system. 3,130,-271, 4–21–64, Cl. 179—18.
Habisohn, Victor J., to International Telephone and Telegraph Corp. Electronic bistable gate circuit. 3,130,326, 4–21–64, Cl. 307—88.5.
Hablanian, Marsbed, and R. J. Powers, to National Research Corp. High vacuum system. 3,144,035, 8–11–64, Cl. 137—1.
Habler, Adam L. Tray stand with receptacle. 3,148,924, 9–15–64, Cl. 312—256.
Haboush, Robert C., to S. C. Halpert. Electromagnetically controlled hood device for welding and cutting. 3,159,844, 12–8–64, Cl. 2—8.
Habsburg, Dominic, to Cambridge Thermionic Corp. Hermetically sealed variable impedance with stationary coil and axially movable threaded core. 3,135,937, 6–2–64, Cl. 336—136.
Hach Chemical Co.: *See*—
Hach, Clifford C. 3,139,401.
Hach, Clifford C., to Hach Chemical Co. Method for removing rust from water softeners. 3,139,401, 6–30–64, Cl. 210—30.
Hack, Carl H., and E. J. Minarcik, to National Lead Co. Lead base solder alloy. 3,147,114, 9–1–64, Cl. 75—166.
Hack, Heinrich, to Carl Schenck Maschinenfabrik G.m.b.H. Method and machine for balancing rotors. 3,122,020, 2–25–64, Cl. 73—462.
Hack, Heinrich, to Carl Schenck Maschinenfabrik G.m.b.H. Dynamic balancing machine. 3,140,616, 7–14–64, Cl. 73—460.
Hack, Heinrich, to Carl Schenck Maschinenfabrik G.m.b.H. Method and machine for balancing rotors. 3,141,338, 7–21–64, Cl. 73—462.
Hack, Heinrich, to Carl Schenck Maschinenfabrik G.m.b.H. Method and apparatus for the balance centering of rotors. 3,154,973, 11–3–64, Cl. 77—5.
Hack, Roger A.: *See*—
Bentley, Robert F., Hack, and Stapleton. 3,125,700.
Hackbarth, Russell R.: *See*—
DeFandorf, John L., Hackbarth, Kraus, and Sywulka. 3,140,426.
Hackenberg, Robert A.: *See*—
Tyrseck, Walter J., and Hackenberg. 3,145,836.
Hackenberger, Claus G., to Tacoma Boatbuilding Co., Inc. Two-sided hydraulic system. 3,132,622, 5–12–64, Cl. 114—235.
Hackert, John G.: *See*—
Thiel, Otto, and Hackert. 3,144,777.
Hackethal-Draht-und Kabel-Werke AG.: *See*—
Lehnert, Gunther. 3,119,534.
Lehnert, Gunther. 3,128,930.
Lehnert, Gunther, and Schatz. 3,116,865.
Hackett, John A., to Bell Telephone Laboratories, Inc. Oscillator frequency control with switching. 3,155,922, 11–3–64, Cl. 331—179.
Hacking, Colin A., to I-T-E Circuit Breaker Co. Rapid microwave scanner. 3,120,648, 2–4–64, Cl. 333—31.
Hackler, Ludwig, to Olympia Werke A.G. Circuit assembly for electrical office machines and the like. 3,161,805, 12–15–64, Cl. 317—101.
Hackley, Brennie E., Jr., E. J. Poziomek, and G. M. Steinberg, to United States of America, Army. Bis quaternary oximes. 3,135,761, 6–2–64, Cl. 260—296.
Hackley, Kenneth L.: *See*—
Pope, James H., and Hackley. 3,150,926.
Hackley, Reginald A., and D. F. Martin, to Radio Corp. of America. Apparatus for manufacturing magnetic recording tape. 3,162,792, 12–22–64, Cl. 317—203.
Hackley, Roy C. Portable placer for concrete and the like. 3,137,482, 6–16–64, Cl. 259—151.
Hackmack, Gerhard, and W. Krastinat, to Chemische Fabrik Promonta, G.m.b.H. Processes for preparing cycloalkylized 2,3 - dihydro - 1,4-benzthiazines. 3,156,686, 11–10–64, Cl. 260—243.
Hackman, James R., to E. I. du Pont de Nemours and Co. Continuous optimal controller. 3,152,602, 10–13–64, Cl. 137—92.
Hackman, Robert J., to United States of America, Interior. Device isopachometer. 3,136,060, 6–9–64, Cl. 33—1.
Hackney, Robert F.: *See*—
Bryant, Clifford A., Hackney, and Payne. 3,160,125.
Elliott, Charles D., Hackney, and La Duke. 3,144,844.
Hackney, Robert F., to Cabin Crafts, Inc. Machine for producing cut and uncut pile fabrics. 3,132,612, 5–12–64, Cl. 112—79.
Hackney, Stanley: *See*—
Moore, Richard V., and Hackney. 3,159,549.
Hackney, Stanley, and E. E. Jerkins, to United Kingdom Atomic Energy Authority. Fuel elements for nuclear reactors. 3,128,235, 4–7–64, Cl. 176—77.
Haco A.G.: *See*—
Matter, Max, Vogel, and Bosshard. 3,119,832.
Haddad, Arthur K. Quick-acting vise grips. 3,124,347, 3–10–64, Cl. 269—91.
Haddad, Charles J.: *See*—
Holka, Thomas C., and Haddad. 3,130,838.
Haddad, Frederick F.: *See*—
Ruppelt, Francis A., and Haddad. 3,160,973.
Hadden, Henry, to The Standard Oil Co. Safety device for power leaf brake. 3,129,745, 4–21–64, Cl. 153—39.
Haddick, John S., and D. W. Duffey, to The Duriron Co., Inc. Valve assembly. 3,151,836, 10–6–64, Cl. 251—175.
Haddock, Arthur F., 25% to T. Odom. Handle for fishermen. 3,137,421, 6–16–64, Cl. 224—7.
Hadek, Charles G., ½ to G. Fisanick. Permanent auto-jack. 3,149,822, 9–22–64, Cl. 254—86.
Hadekel, Ruben, to The Sperry Gyroscope Co. Ltd. Servomotor systems. 3,131,603, 5–5–64, Cl. 91—165.
Haden, Walter L., Jr., to Minerals & Chemicals Philipp Corp. Method for producing high purity silica from kaolin clay. 3,116,973, 1–7–64, Cl. 23—182.
Haden, Walter L., Jr., to Minerals & Chemicals Philipp Corp. Tobacco composition and smoking unit containing material for eliminating deleterious matter. 3,126,011, 3–24–64, Cl. 131—17.
Haden, Walter L., Jr., and F. J. Dzierzanowski, to Minerals & Chemicals Philipp Corp. Synthetic crystalline lithium aluminum silicate zeolite and method for making same. 3,123,441, 3–3–64, Cl. 23—113.
Hadley, Benjamin H.: *See*—
Hadley, Dawson N. 3,116,725.
Hadley, Charles F.: *See*—
Silverman, Daniel, and Hadley. 3,142,750.
Hadley Co., Inc.: *See*—
Hadley, Wilfred N. 3,153,836.
Hadley, David J.: *See*—
Barclay, John L., Bream, Hadley, and Stewart. 3,152,170.
Hadley, David J., to The Distillers Co. Ltd. Production of aliphatic nitriles. 3,153,085, 10–13–64, Cl. 260—465.3.
Hadley, Dawson N., to B. H. Hadley. Smog control device and method for internal combustion engines. 3,116,725, 1–7–64, Cl. 123—119.
Hadley, Homer M. Structurally integrated composite members. 3,138,899, 6–30–64, Cl. 50—395.
Hadley, John, to The General Electric Co. Ltd. Waveguide switching using feedback-controlled servo system to rotate the plane of polarization of plane-polarized electromagnetic waves. 3,130,379, 4–21–64, Cl. 333—7.
Hadley, John M.: *See*—
Colson, Robert T., and Hadley. 3,119,358.
Hadley, Wilfred N., to Hadley Co., Inc. Fabric napping mechanism. 3,153,836, 10–27–64, Cl. 26—29.
Hadley, William A., R. G. Fielding, and H. Ettinger, to Linotype and Machinery Ltd. Registering devices. 3,134,296, 5–26–64, Cl. 88—24.
Haeber, John A.: *See*—
Bauer, Richard J., Haeber, Otteman, and Perner. 3,163,-223.
Foster, Kenneth W., and Haeber. 3,163,222.
Otteman, Lloyd G., and Haeber. 3,143,171.
Haeber, John A., to Shell Oil Co. Method and apparatus for hanging pipe in an underwater well. 3,163,217, 12–29–64, Cl. 166—14.
Haeber, John A., and R. F. Perner, to Shell Oil Co. Wellhead connector. 3,147,992, 9–8–64, Cl. 285—18.
Haeber, John A., and L. G. Otteman, to Shell Oil Co. Underwater well drilling apparatus and method. 3,163,220, 12–29–64, Cl. 166—46.
Haeber, John A., and K. W. Foster, to Shell Oil Co. Underwater well drilling apparatus. 3,163,224, 12–29–64, Cl. 166—66.5.
Haeberle, Manfred: *See*—
Goebel, Siebert, Haeberle, Zacher, and Schmidt-Thomee. 3,117,953.
Haecker, Ernest. Game board package. 3,151,741, 10–6–64, Cl. 206—78.

Haefer, Rene: *See*—
Buechel, Baptist, Haefer, and Zinsmeister. 3,116,872.
Haefliger, William W.: *See*—
Crownover, Joseph W. 3,155,791.
Haefling, Joseph A.: *See*—
Carlson, Oscar N., Schmidt, and Haefling. 3,150,964.
Haehnel, Herbert E., to Textile Machine Works. Full-fashioned knitting machines. 3,153,336, 10–20–64, Cl. 66—82.
Haekal, Hussein M. Method of and arrangement for reducing clearance losses in axial and semi-axial flow machines. 3,132,839, 5–12–64, Cl. 253—31.
Haen, Eugene P., to Badger Northland, Inc. Livestock feeding apparatus. 3,123,050, 3–3–64, Cl. 119—52.
Haen, Eugene P., K. H. Kuehn, and P. W. Romig, to Badger Northland, Inc. Tube feeder. 3,134,478, 5–26–64, Cl. 198—64.
Haendeler, Walter, and K. Seidel, to Schloemann Aktiengesellschaft. Cooling of press discs in extrusion presses. 3,157,282, 11–17–64, Cl. 207—16.
Haentjens, Walter D. Variable speed cantilevered shaft pumps. 3,163,117, 12–29–64, Cl. 103—87.
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Haessler, Walter M., and A. R. Blair, to The Fyr-Fyter Co. Dual stream nozzle and valve. 3,128,791, 4–14–64, Cl. 137—609.
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Haettinger, George C., and S. P. Ramsey, to Union Carbide Corp. Apparatus for supplying liquefied gas. 3,156,100, 11–10–64, Cl. 62—51.
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Hafner, Klaus, and R. Muller, to Studiengesellschaft Kohle m.b.H. Process for the production of substituted azulenes. 3,155,737, 11–3–64, Cl. 260—666.
Hafner, Theodore, to Beam Guidance, Inc. Electromagnetic wave transmission systems. 3,150,371, 9–22–64, Cl. 343—100.
Hafner, Theodore. Air-cushion supported vehicles. 3,155,050, 11–3–64, Cl. 104—138.
Hafner, Walter: *See*—
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Hafstad, Jakob, and K. R. Wilson, to E. I. du Pont de Nemours and Co. Method and apparatus for producing regenerated cellulose film. 3,121,762, 2–18–64, Cl. 264—99.
Hafstrom, Warren R., G. Boswinkle, and L. H. Hinkel, to United States of America, Air Force. Container opener. 3,156,979, 11–17–64, Cl. 30—6.4.
Hafstrom, Warren R., L. H. Hinkel, and G. Boswinkle, to Whirlpool Corp. Space kitchen. 3,157,192, 11–17–64, Cl. 137—341.
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Hagan, Amuel W. Aircraft crash signal. 3,137,458, 6–16–64, Cl. 244—1.
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Hagemeyer, Hugh J., Jr., and M. B. Edwards, to Eastman Kodak Co. Organoaluminum-transition metal halide-alkali metal fluoride for olefin polymerization. 3,125,558, 3–17–64, Cl. 260—93.7.
Hagemeyer, Hugh J., Jr., and M. B. Edwards, to Eastman Kodak Co. Olefin polymerization using an aluminum alkyl-transition element compound-alkali metal fluoride catalyst composition. 3,143,537, 8–4–64, Cl. 260—93.7.
Hagemeyer, Hugh J., Jr., and M. B. Edwards, to Eastman Kodak Co. Process for removing impurities from recycle solvent for olefin polymerization. 3,153,027, 10–13–64, Cl. 260—94.9.
Hagemeyer, Hugh J. Jr., J. L. Greene, Jr., and C. W. Hequembourg, to Eastman Kodak Co. Emulsifiable waxes from polyethylene. 3,160,621, 12–8–64, Cl. 260—94.9.
Hagen, Fred, and W. F. Mott. Oyster opener. 3,151,352, 10–6–64, Cl. 17—9.
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Hagen, Karl: *See*—
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Hagen, Lawrence M., and W. F. Leverton, to United States of America, Navy. Apparatus for the preparation of high purity silicon. 3,149,216, 9–15–64, Cl. 219—10.43.
Hagen, Reinold. Manufacture of hollow plastic articles. 3,145,243, 8–18–64, Cl. 264—98.
Hagen, Werner. Automatic record player. 3,131,936, 5–5–64, Cl. 274—10.
Hagen, William F., and G. A. Anderson, to Dual Jet Refrigeration Co. Refrigerated display case. 3,134,243, 5–26–64, Cl. 62—256.
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Hager, Earl E. Washing machine for small articles. 3,116,744, 1–7–64, Cl. 134—121.
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Hagerty, Andrew T., C. A. Bailey, and T. F. Brenneman, to The Adlake Co. Window construction. 3,151,715, 10–6–64, Cl. 189—75.
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Haggard, John M., and P. H. McMurray. Livestock apparatus. 3,159,139, 12–1–64, Cl. 119—17.
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Hagmann, Foster M., H. B. Graham, and R. B. Morris; said Graham and said Morris, assors. of 14⅔%, to said Hagmann and 14%, to W. L. Pratt. Apparatus for pressure forming plastics. 3,121,913, 2–25–64, Cl. 18—10.
Hagmann, Foster M., H. B. Graham, and R. B. Morris; said Graham and said Morris assors. of 7⅓%, to F. M. Hagmann, and 7%, to W. L. Pratt. Seal. 3,122,116, 2–25–64, Cl. 113—80.
Hagmann, Foster M., H. B. Graham, and R. B. Morris; said Graham and said Morris, assors. of 7⅓%, to said Hagmann, and 7%, to W. L. Pratt. Seal. 3,122,253, 2–25–64, Cl. 215—39.
Hagmann, Foster M., H. B. Graham, and R. B. Morris; said Graham and said Morris, assors. of 14⅔%, to said Hagmann, and 14%, to W. L. Pratt. Crown-type sealing closure. 3,122,254, 2–25–64, Cl. 215—39.
Hagmann, Foster M., H. B. Graham, and R. B. Morris; said Graham and said Morris, assors. of 14⅔%, to said Hagmann and of 14%, to W. L. Pratt. Sealing closure. 3,122,-255, 2–25–64, Cl. 215—40.
Hagmann, Foster M., H. B. Graham, and R. B. Morris; said Graham and said Morris, assors. of 14⅔%, to said Hagmann and of 14%, to W. L. Pratt. Sealing closure and method and apparatus for forming same. 3,122,262, 2–25–64, Cl. 220—46.
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Hague, Wilmer W., and G. A. Householder, to Chambersburg Engineering Co. Control system for impact device. 3,142,-206, 7–28–64, Cl. 78—13.
Hagy, Henry E., to Corning Glass Works. Apparatus for controlled heat treatment of glass. 3,129,087, 4–14–64, Cl. 65—162.
Hahl, Edgar, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of metal salts of organic acids. 3,133,-942, 5–19–64, Cl. 260—414.
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Hahn, Eberhard, to VEB Carl Zeiss Jena. Very fine beam electron gun. 3,141,993, 7–21–64, Cl. 315—31.
Hahn, Emil H., to Lambert Brake Corp. Control valve unit. 3,120,244, 2–4–64, Cl. 137—512.5.
Hahn, Erich, to VEB Kamera- und Kinowerke Dresden. Photographic camera. 3,151,535, 10–6–64, Cl. 95—10.
Hahn, George W. Infusion pump. 3,137,242, 6–16–64, Cl. 103—152.
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Hahn, Heinrich, G. Mohr, and A. Van Schoor, to E. Merck Aktiengesellschaft. Process for the production of sulfur-containing alkali salts. 3,152,169, 10–6–64, Cl. 260—465.1.
Hahn, Heinz W., to Motoren-werke Mannheim A.G. vorm Benz abt Stat Motorenbau. Gas engines. 3,149,454, 9–22–64, Cl. 60—13.
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Hahn, Pierre, to Le Rapide, Societe a Responsabilite Limitee. Inertia trailer brake actuator. 3,144,101, 8–11–64, Cl. 188—112.
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Hahn, Wilbur D., 50% to J. D. Quinn. Back wash cloth. 3,130,441, 4–28–64, Cl. 15—507.
Hahn, Willi, to Farbenfebriken Bayer Aktiengesellschaft. Process for the production of alkylated organic sulphur compounds. 3,144,489, 8–11–64, Cl. 260—609.
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Hahnel, Alwin, to General Dynamics Corp. Search receiver which corrects for motor overshoot by interchange of two offset band pass filters. 3,131,370, 4–28–64, Cl. 334—22.
Hahto, Charles. Collapsible snow scooter. 3,151,876, 10–6–64, Cl. 280—16.
Haifley, William E., E. J. Schaefer, and L. J. Lakes, to Franklin Electric Co., Inc. Core construction. 3,159,762, 12–1–64, Cl. 310—217.
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Haigh, Leslie B., and T. W. Tuttle, to International Telephone and Telegraph Corp. Pulse code signalling systems. 3,149,-203, 9–15–64. Cl. 178—26.
Haigh, Richard W., to Joseph Lucas (Industries) Ltd. Fuel supply control for gas turbine engines. 3,128,603, 4–14–64. Cl. 60—39.28.
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Haines, Geoffrey H., K. J. Mitchell, and R. Hicks, to The General Electric Co. Ltd. Core supporting arrangement for nuclear reactor. 3,130,130, 4–21–64, Cl. 176—87.
Haines, Geoffrey H., and P. J. Grant, to The General Electric Co. Ltd. Thermal reactors. 3,140,982, 7–14–64, Cl. 176—58.
Haines, Harry W., Jr., to Sulphur Recovery, Inc. Process for the selective adsorption of hydrogen sulfide and its subsequent catalytic conversion to elemental sulphur. 3,144,307, 8–11–64, Cl. 23—225.
Haines, Richard M., to Owens-Corning Fiberglas Corp. Method for leaching a polyurethane foam. 3,125,542, 3–17–64, Cl. 260—2.5.
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Haines, William M., Jr., and E. P. Carter, to The Gates Rubber Co. Power transmission belting. 3,138,962, 6–30–64, Cl. 74—231.
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Hair, Eddy R., and B. Lawrence, to The Procter & Gamble Co. Process for agglomerating culinary mixes. 3,135,612, 6–2–64, Cl. 99—94.
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Hait, James M., to FMC Corp. Method of and apparatus for manufacturing and installing continuous conduit. 3,132,-416, 5–12–64, Cl. 29—429.
Hait, James M., to FMC Corp. Drupe pitter. 3,132,676, 5–12–64, Cl. 146—28.
Hait, James M., to FMC Corp. Drupe pitting machine. 3,156,275, 11–10–64, Cl. 146—28.
Hait, Miriam L. Golfing aid. 3,139,690, 7–7–64, Cl. 40—1.5.
Hajet, Vincent J. Rotary gear type internal combustion engine. 3,117,562, 1–14–64, Cl. 123—13.
Hajian, Gabriel, to Textron Electronics, Inc. Specimen acceleration limiter for vibration exciter. 3,141,325, 7–21–64, Cl. 73—71.6.
Hajos, Eugene, to Premier Laundry, Inc. Folding and stacking machine for articles of linen. 3,126,657, 3–31–64, Cl. 38—2.
Hajos, Eugene, to Premier Laundry, Inc. Folding and stacking machines for articles of linen. 3,127,690, 4–7–64, Cl. 38—2.
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Hakim, Albert S. Bow knot fastener. 3,122,805, 3–3–64, Cl. 24—119.
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Hakka, Ernest J., to L. Hakka. Anti-skid device. 3,125,147, 3–17–64, Cl. 152—210.
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Hale, Arthur P., and B. D. James, to Fairchild Camera and Instrument Corp. Epitaxial growth through a silicon dioxide mask in a vacuum vapor deposition process. 3,156,-591, 11–10–64, Cl. 148—175.
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Hale, John K., and W. H. Brackbill, to Sperry Rand Corp. Hay conditioner. 3,146,569, 9–1–64, Cl. 56—1.
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Hall, Elmer D. and J. E., Jr., to Weatherford Oil Tool Co., Inc. Drill pipe protector. 3,148,004, 9–8–64, Cl. 308—4.
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Hall, Horace N., to E. J. Lavino and Co. Refractory brick and furnace construction. 3,139,048, 6–30–64, Cl. 110—99.
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Hall, Hugh E., Jr., to Texaco Inc. Productivity well logging by activation analysis and fluid withdrawal. 3,127,511, 3–31–64, Cl. 250—43.5.
Hall, Hugh E., Jr., to Texaco Inc. Radiation caliper well logging apparatus. 3,147,376, 9–1–64, Cl. 250—43.5.
Hall, Hugh E., Jr., to Texaco Inc. Radioactivity well logging. 3,147,378, 9–1–64, Cl. 250—71.5.
Hall, Hugh E., Jr., to Texaco Inc. Formation hydrogen content logging with fast neutron and scintillation detector. 3,149,230, 9–15–64, Cl. 350—71.5.
Hall, Hugh E., Jr., to Texaco Inc. Radioactivity well logging. 3,151,242, 9–29–64, Cl. 250—83.3.
Hall, Hugh E., Jr., and R. C. Reynolds, to Texaco Inc. Radiation caliper well logging apparatus. 3,138,707, 6–23–64, Cl. 250—43.5.
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Hall, Virgil H. Fishing lure. 3,138,892, 6–30–64, Cl. 43—42.25.
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Hall, William G., and A. A. Roetken, to Bell Telephone Laboratories, Inc. Highway party line system. 3,154,642, 10–27–64, Cl. 179—17.
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Haller, John. Self-aligning spherical bearing. 3,161,445, 12–15–64, Cl. 308—72.
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Halpern, Benjamin D., and M. Kline, to The Borden Co. Carveable plastic compositions consisting essentially of thermoplastic resin, solvent, carveable wax and finely divided solid filler. 3,140,268, 7–7–64, Cl. 260—23.
Halpern, Benjamin D., J. Dickstein, and R.-M. Hoegerle, to The Borden Co. Cyanoacrylate esters. 3,142,698, 7–28–64, Cl. 260—465.4.
Halpern, Ernest H.: *See*—
Diebel, Charles, Evanicsko, and Halpern. 3,125,739.
Halpern, Joel. Container for liquids. 3,129,840, 4–21–64, Cl. 220—42.
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Halpert, Abby, to Halvin Products Co., Inc. Aquarium device. 3,151,069, 9–29–64, Cl. 210—169.
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Halpin, George N., to General Electric Co. Transistor flip flop circuit with memory. 3,151,255, 9–29–64, Cl. 307—88.5.
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McLeod, William. 3,161,345.
Halsey, David C., R. C. Adams, and J. D. Pickett, to Chrysler Corp. Vehicle speed control. 3,133,611 5–19–64 Cl. 180—82.1.
Halsmer, Joseph L. Tandem engine and roadable aircraft. 3,134,560, 5–26–64, Cl. 244—2.
Halstead, Lester C. Safety device for pressure regulators of the like used with fluid pressure tanks. 3,125,322, 3–17–64, Cl. 251—149.9.
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Burden, Richard W., and Halstead. 3,117,186.
Halsted, Hal F., D. Benun, R. B. Mamone, and H. H. Anderson, to Atlantic Research Corp. Rocket fin. 3,135,203, 6–2–64, Cl. 102—50.
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Halter, Robert E., P. R. McCarthy, and J. J. McGrath to Gulf Research & Development Co. Lubricating oil thickened to a grease with a 1,3,5-triazine compound. 3,160,591, 12–8–64, Cl. 252—47.
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Haluska, Frank S., and F. X. Connolly. Apparatus for optical gaging. 3,143,808, 8–11–64, Cl. 33—174.
Haluska, Joseph. Interchangeable micrometer frame. 3,123,-917, 3–10–64, Cl. 33—170.
Halvarson, Ralph E. Strap tightener and fastener. 3,128,-516, 4–14–64, Cl. 24—68.
Halverson, Clyde M. Leg support for automotive vehicle operators. 3,161,435, 12–15–64, Cl. 297—437.
Halverson, Richard E., to Western Electric Co., Inc. Device for marking articles. 3,157,114, 11–17–64, Cl. 101—4.
Halvin Products Co., Inc.: *See*—
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Halvorsen, Harold W., to National Scientific Laboratories, Inc. Apparatus and process for thawing temperature sensitive frozen materials. 3,154,663, 10–27–64, Cl. 19—10.49.
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Ham, Donald M., to General Electric Co. Timed actuator synchronous speed checker. 3,118,421, 1–21–64, Cl. 116—114.
Ham, George E., W. H. Byler, N. O. Cromwell, and S. J. Manci, to Spencer Chemical Co. Process of producing polyethylene using cyclohexane as a chain modifier. 3,127,387, 3–31–64, Cl. 260—94.9.
Ham, James H., Jr., J. F. Ritchey, and C. Springman; said Ham and said Ritchey assors. to Bell Telephone Laboratories, Inc. and said Springman assor. to Western Electric Co., Inc. Control mechanism. 3,159,324, 12–1–64, Cl. 226—58.
Hamac-Hansella Aktiengesellschaft: *See*—
Herdina, Robert. 3,125,008.
Thürlings, Hermann. 3,159,955.
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Hamann Rechenmaschinen GmbH: *See*—
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Hamblin, Jesse R. Articulated aquatic flipper. 3,146,470, 9–1–64, Cl. 9—307.
Hambro, Herbert A., to The Veritas Co., Inc. Automatic system for supplying alkali and detergent to commercial laundry washing machines. 3,160,317, 12–8–64, Cl. 222—1.
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Hamel, Denis M. H., to Societe Anonyme dite: Pneumatiques et Caoutchouc Manufacture Kleber Colombes. Resilient joints. 3,118,710, 1–21–64, Cl. 308—37.
Hamel, Lewis E. Support for detachable hanger. 3,139,260, 6–30–64, Cl. 248—340.
Hamel, William E., to Cal-Gard, Inc. Sickle. 3,151,434, 10–6–64, Cl. 56—296.
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Hamelberg, August, to Minneapolis-Honeywell Regulator Co. Electric control devices. 3,124,775, 3–10–64, Cl. 338—163.
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Deziel, Fred T., and Hamelink. 3,160,197.
Hamelink, William B., to Honeywell Inc. Burner control apparatus. 3,162,234, 12–22–64, Cl. 158—28.
Hamer, Allan N., and C. C. McCormick, to United Kingdom Atomic Energy Authority. Means for reducing the memory effect in a mass spectrometer ion source. 3,142,752, 7–28–64, Cl. 250—41.9.
Hamer, Edwin W. Athletic visual training aid. 3,139,687, 7–7–64, Cl. 35—7.
Hamer, Floyd S., to FMC Corp. Dashpot controlled loading valve. 3,136,338, 6–9–64, Cl. 137—630.14.
Hamer, Martin: *See*—
Huffman, Clarence W., and Hamer. 3,149,137.
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Huffman, Clarence W., and Hamer. 3,149,145.
Hamermesh, Morton, S. S. Hanna, and G. J. Perlow, to United States of America, Atomic Energy Commission. Method and apparatus for producing and analyzing polarized gamma radiation. 3,130,315, 4–21–64, Cl. 250—106.
Hames, Richard J.: *See*—
Fox, William R., Hames, Schwartz, and Zaruba. 3,125,-086.
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Carriere, Maurice M., Casey, Ervine, Hamil, Schimpf, Smith, and Turner. 3,123,959.
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Fisher, Robert C. 3,131,451.
Hamill, Thomas M., to Honolulu Iron Works Co. Roll mounting for sugar mill. 3,127,831, 4–7–64, Cl. 100—168.
Hamilton, Billy H., to Bell Telephone Laboratories, Inc. Constant current rectifier power supply system. 3,135,-910, 6–2–64, Cl. 321—16.
Hamilton, Charles R., W. R. Hoelzen, M. H. Brown, and J. F. Crossley, to United States of America, Navy. Electric initiators for explosives, pyrotechnics and propellants. 3,117,519, 1–14–64, Cl. 102—28.
Hamilton, Chester E., and R. F. W. Rätz, to Olin Mathieson Chemical Corp. Preparation of polymeric phosphates. 3,159,602, 12–1–64, Cl. 260—61.
Hamilton, Clark H. Syringe. 3,150,801, 9–29–64, Cl. 222—158.
Hamilton Co., Inc.: *See*—
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Hamilton, Earl F. 3,128,731.
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Hamilton, Earl F. 3,147,998.
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Hamilton, Donald A., to Pharmaseal Laboratories. Plastic syringe. 3,135,260, 6–2–64, Cl. 128—218.
Hamilton, Donald A., to Don Baxter, Inc. Apparatus for making a plastic part. 3,138,827, 6–30–64, Cl. 18—42.
Hamilton, Donald R., to Westinghouse Electric Corp. Preparation of silicon carbide materials. 3,129,125, 4–14–64, Cl. 148—174.
Hamilton, Earl F., to Hamilton Cosco, Inc. Press. 3,128,-731, 4–14–64, Cl. 113—43.
Hamilton, Earl F., to Hamilton Cosco, Inc. Suitcase. 3,141,-535, 7–21–64, Cl. 190—41.
Hamilton, Earl F., to Hamilton Cosco, Inc. Back rest. 3,147,998, 9–8–64, Cl. 297—452.
Hamilton, Earl F., to Hamilton Cosco, Inc. Chair base, 3,148,855, 9–15–64, Cl. 248—188.7.
Hamilton, Earl F., to Hamilton Cosco, Inc. Shelf structure. 3,154,028, 10–27–64, Cl. 108—60.
Hamilton, Earl F., to Hamilton Cosco, Inc. Canopy. 3,154,-886, 11–3–64, Cl. 47—44.
Hamilton, Earl F., to Hamilton Cosco, Inc. Infant's chair. 3,157,430, 11–17–64, Cl. 297—19.
Hamilton, Earl F., and E. K. Moore, to Hamilton Cosco, Inc. Slat for an article of furniture. 3,117,775, 1–14–64, Cl. 267—110.
Hamilton, Earl F., and R. B. Lay, to Hamilton Cosco, Inc. Infant's car seat. 3,132,896, 5–12–64, Cl. 297—256.
Hamilton, Earl F., and R. B. Lay, to Hamilton Cosco, Inc. Infant's chair. 3,142,512, 7–28–64, Cl. 297—317.
Hamilton, Edgar H.: *See*—
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Hamilton, Edward R., to D. A. Hart. Pycnometer. 3,129,-585, 4–21–64, Cl. 73—149.
Hamilton, Edward R., to D. A. Hart, d.b.a. Rainhart Co. Volumeter. 3,134,258, 5–26–64, Cl. 73—149.
Hamilton, Frederick A., to Chicago Aerial Industries, Inc. Radiation sensitive ground speed indicator. 3,144,497, 8–11–64, Cl. 88—1.
Hamilton, James L., to Phillip H. Kaufmann. Timing device. 3,158,987, 12–1–64, Cl. 58—22.9.
Hamilton, James L., and F. J. Nolan; said Nolan assor. of 17% to W. H. Hamilton. Apparatus for producing gas. 3,163,509, 12–29–64, Cl. 55—234.
Hamilton, Jefferson M., Jr., and L. Spiegler, to E. I. du Pont de Nemours and Co. Process for the preparation of hydrogenation catalyst. 3,127,356, 3–31–64, Cl. 252—447.
Hamilton, Joel A.: *See*—
Eburn, William H., Jr., and Hamilton. 3,148,782.
Hamilton, Joel A., to Polaroid Corp. Pressure-applying structure for distributing processing fluid. 3,147,685, 9–8–64, Cl. 95—89.
Hamilton, Joel A., to Polaroid Corp. Photographic process. 3,161,122, 12–15–64, Cl. 95—89.
Hamilton, Joel A., and P. D. Bartlett, to Polaroid Corp. Photographic film assemblage. 3,161,516, 12–15–64, Cl. 96—67.
Hamilton, John K.: *See*—
Mitchell, Reid L., Hamilton, and Smith. 3,148,106.

Hamilton, Joseph P., to American Box Corp. of California. Stacking paperboard lug box. 3,157,346, 11–17–64, Cl. 229—23.
Hamilton, Louis F. Hemostatic instrument. 3,155,094, 11–3–64, Cl. 128—326.
Hamilton, Lyle A., and F. M. Seger, to Socony Mobil Oil Co., Inc. Polymerized olefin synthetic lubricants. 3,149,178, 9-15–64, Cl. 260—683.9.
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Amthor, Franklin R., Jr., and Mueller. 3,138,946.
Cisler, Earl J. 3,140,674.
Grow, Harry N., Hoenle, Kanitz, Cisler, and Mueller. 3,140,559.
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Kanzelberger, Claude G. 3,129,988.
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Hamilton, Noble E., to Clevite Corp. Method and apparatus for crystal growth. 3,119,778, 1–28–64, Cl. 252—62.3.
Hamilton, Noble E., to Clevite Corp. Alloying fixtures. 3,127,646, 4–7–64, Cl. 22—116.
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Hamilton, Ralph H., Sr., and M. A. Rubinstein, to Thiokol Chemical Corp. Catapult locking mechanism for ejection seat. 3,126,178, 3–24–64, Cl. 244—122.
Hamilton Research Associates, Inc.: *See*—
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Hamilton, Robert B.: *See*—
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Hamilton, Robert C., to Jackel, Inc. Floor drain standpipe. 3,116,751, 1–7–64, Cl. 137—362.
Hamilton, Robert W., and K. J. Rorig, to G. D. Searle & Co. Diphenylmethyl-1-aminopiperidine hydrazones and congeners. 3,158,609, 11–24–64, Cl. 260—240.
Hamilton, Samuel C., to Magor Car Corp. Loading hatch for freight cars. 3,145,665, 8–25–64, Cl. 105—377.
Hamilton, Samuel C., and S. H. Lagerveld, to Magor Car Corp. Operating mechanism for doors on hopper type cars. 3,137,247, 6–16–64, Cl. 105—251.
Hamilton, Ted J. Adjustable seat. 3,143,326, 8–4–64, Cl. 248—122.
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Huffman, Harold W. 3,124,350.
Hamilton, Wallace, to Pneumo Dynamics Corp. Hatch cover seal. 3,126,591, 3–31–64, Cl. 20—69.
Hamilton Walter E.: *See*—
Lowe, Edison, Durkee, and Hamilton. 3,133,831.
Hamilton, Walter E., Jr.: *See*—
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Hamilton, Warren: *See*—
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Bly, Donald A., and Le Blanc. 3,142,956.
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Fritsch, Daniel. 3,116,592.
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Herr, Earl B., Jr., Hamill, and McGuire. 3,143,468.
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Reese, James H. 3,130,537.
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Van Horn, John A. 3,116,594.
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Walmer, Marlin. 3,158,988.
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Hamilton, William H., to Pennsalt Chemicals Corp. Apparatus and method for solidifying liquids. 3,152,453, 10–13–64, Cl. 62—71.
Hamilton, William H., and M. E. Fuentevilla, to Pennsalt Chemicals Corp. Apparatus and method for ascertaining optimum drying conditions. 3,145,562, 8–25–64, Cl. 73—76.
Hamilton, William L.: *See*—
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Piker, Herbert M. 3,132,759.
Piker, Herbert M. 3,152,729.
Piker, Herbert M. 3,152,730.
Hamlet, Buck C., to Western Unit Corp. Spring suspension assembly with adjustable seat for radius leaf. 3,144,246, 8–11–64, Cl. 267—52.
Hamlin, Halley H., to Clevite Corp. Barrel engine. 3,151,527, 10–6–64, Cl. 91—175.
Hamlin, Halley H., and A. L. W. Williams, to Clevite Corp. Torpedo steering system. 3,162,162, 12–22–64, Cl. 114—23.
Hamlin, James S., to E. I. du Pont de Nemours and Co. Preparation of printing plates. 3,146,106, 8–25–64, Cl. 96—35.
Hamlin, William E.: *See*—
Clayborne, Norman F., Hamlin, and Kerns. 3,141,418.
Clayborne, Norman F., Hamlin, and Kerns. 3,141,419.
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Hamm, Douglas W., to Muskegon Piston Ring Co. Piston ring spacer. 3,136,559, 6–9–64, Cl. 277—139.
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Hamm, James R., to United States of America, Navy. Internal combustion apparatus. 3,153,323, 10–20–64, Cl. 60—39.71.
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Hamm, Philip C.: *See*—
Weiss, Anton G., and Hamm. 3,142,693.
Hamm, Philip C., to Monsanto Chemical Co. Herbicide composition. 3,133,808, 5–19–64, Cl. 71—2.7.
Hamm, Philip C., to Monsanto Chemical Co. Herbicidal compositions. 3,133,810, 5–19–64, Cl. 71—2.7.
Hamm, Philip C., to Monsanto Co. Alkyl substituted chloroacetamide weed control. 3,154,400, 10–27–64, Cl. 71—2.7.
Hamm, Philip C., and A. J. Speziale, to Monsanto Co. Method of inhibiting the germination of grass seeds. 3,141,758, 7–21–64, Cl. 71—2.6.
Hammacher, Jacob, ½ to Societe pour la Construction d'Appareils a Gazeifier le Mazout (C.A.G.M.). Method and apparatus for generating gas under constant conditions of temperature and delivery from fuel oils. 3,117,848, 1–14–64, Cl. 48—102.
Hammaker, Paul M.: *See*—
Herer, Jack. 3,117,759.
Hammann, William C.: *See*—
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May, Frank H., and Hammar. 3,148,030.
Hammel, Robert T.: *See*—
Good, Paul F., and Hammel. 3,149,402.
Hammell, Allan K., to Minneapolis-Honeywell Regulator Co. Control apparatus. 3,123,324, 3–3–64, Cl. 244—77.
Hammell, Kemper M., and H. Rueger, to AMP Inc. Terminal units for circuit panels. 3,138,419, 6–23–64, Cl. 339—59.
Hammelmann, Paul. Large size pipe cleaning, sewer system cleaning and fire fighting vehicle. 3,155,319, 11–3–64, Cl. 239—191.
Hammer, Irving P., R. J. Holzinger, and C. Liddy, to Socony Mobil Oil Co., Inc. Fire-resistant hydraulic fluids. 3,159,580, 12–1–64, Cl. 252—75.
Hammer, Kenneth C.: *See*—
Ferrara, Rudolph A., and Hammer. 3,147,996.
Hammer, Nathan. Knockdown umbrella. 3,157,186, 11–17–64, Cl. 135—20.
Hammer, Neville A., Sr. Waterproofing preparation. 3,139,351, 6–30–64, Cl. 106—89.
Hammer, Oliver S., to United Electronics Laboratories, Inc. Apparatus for taking sequential photographs. 3,120,160, 2–4–64, Cl. 95—15.
Hammer, Otto, and J. A. Mitchell, to Dresser Industries, Inc. Turbodrill. 3,159,222, 12–1–64, Cl. 175—107.
Hammerand, Donald J., to Admiral Corp. Record changer trip. 3,138,389, 6–23–64, Cl. 274—15.
Hammerly, Herman J., to General Electric Co. Plug-in panel unit. 3,135,895, 6–2–64, Cl. 317—116.
Hammerly, Herman J., to General Electric Co. Circuit breaker panel assembly with discriminating means. 3,142,002, 7–21–64, Cl. 317—119.
Hammerschmidt, Rudolph L. Carburetor de-icer. 3,128,321, 4–7–64, Cl. 261—142.
Hammersand, Fred G., and R. T. Schumacher, to Radio Corp. of America. Electron beam tube with longitudinally partitioned drift tube. 3,119,045, 1–21–64, Cl. 315—5.29.
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Hammitt, Andrew B., and H. L. Birum, Jr.; said Birum assor. to said Hammitt. Sealing means for intersecting battens. 3,127,639, 4–7–64, Cl. 20—4.
Hammitt, Andrew B., and H. L. Birum, Jr.; said Birum assor. to said Hammitt. Thread coupling structure. 3,139,960, 7–7–64, Cl. 189—34.
Hammon, Donald P.: *See*—
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Binner, Christian R., and Hammond. 3,139,927.
Hammond, Clinton G., and A. J. Tickell, Jr. Moving animal target system. 3,128,096, 4–7–64, Cl. 273—102.2.
Hammond, Donald L.: *See*—
Cutler, Leonard S., and Hammond. 3,159,757.
Hammond, Fay D., and T. E. Meredith. Fruit polishing machine. 3,149,357, 9–22–64, Cl. 15—3.1.
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Bayha, Jack E., and Hammond. 3,139,580.
Crowdes, George J., Hausdorf, and Hammond. 3,121,190.
Hammond, George E., and G. J. Crowdes, to Assembly Products, Inc. Meter relay having throwable contacts and an additional contact in the region of a center post stop. 3,157,755, 11–17–64, Cl. 200—56.

Hammond, Gerald T.: *See*—
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Hammond, James W., to Curtiss-Wright Corp. System and mechanism for dispensing fluids. 3,118,475, 1–21–64, Cl. 141—224.
Hammond, James W., to Curtiss-Wright Corp. Textile spindle brakes. 3,128,591, 4–14–64, Cl. 57—88.
Hammond, James W., to Curtiss-Wright Corp. Textile spindle whorl retainer latches. 3,153,313, 10–20–64, Cl. 57—132.
Hammond, James W., to Curtiss-Wright Corp. Textile spindles. 3,153,314, 10–20–64, Cl. 57—135.
Hammond, John M.: *See*—
Gerds, Donald A., and Hammond. 3,116,493.
Hammond, Joseph P., and J. D. Sease, to United States of America, Atomic Energy Commission. Liquid phase sintering of metallic carbides. 3,118,764, 1–21–64, Cl. 75—204.
Hammond, Joseph P., and J. D. Sease, to United States of America, Atomic Energy Commission. Method for improving hydrolysis resistance of uranium carbide containing composition. 3,145,182, 8–18–64, Cl. 252—301.1.
Hammond, Lee C., to Hammond Machinery Builders, Inc. Mechanical device. 3,130,460, 4–28–64, Cl. 22—80.
Hammond, Lee C., M. M. Bass, and R. R. Faulkner, to Hammond Machinery Builders, Inc. Abrading machine. 3,152,423, 10–13–64, Cl. 51—55.
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Laube, William C., Jr. 3,159,713.
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Hammond, Robert J., to V-M Corp. Phonograph tone arm. 3,121,567, 2–18–64, Cl. 274—25.
Hammond, Robert J., to V-M Corp. Cartridge retraction mechanism for phonograph tone arms. 3,139,284, 6–30–64, Cl. 274—24.
Hammond, Roland P., H. M. Busey, and J. R. Humphreys, Jr., to United States of America, Atomic Energy Commission. Homogeneous-liquid metal-fast reactor. 3,161,570, 12–15–64, Cl. 176—40.
Hammond, Samuel I., T. E. Boyd, Jr., and A. A. K. Booth, Jr., to American Metal Climax, Inc. Method of indirectly heating molten metals. 3,137,569, 6–16–64, Cl. 75—86.
Hammond, William D. Adjustable temple for eyeglasses. 3,118,962, 1–21–64, Cl. 88—52.
Hammons, Lester J.: *See*—
Gyori, Emery A., and Hammons. 3,145,043.
Gyori, Emery A., and Hammons. 3,163,459.
Hammons Products Co.: *See*—
Howard, Kenneth H. 3,123,115.
Hamner, Glen P.: *See*—
Cull, Neville L., and Hamner. 3,129,107.
Eldib, Ibrahim A., Bieber, Adams, Hamner, and Kimberlin. 3,153,623.
Hamori, Andras, to Bell Telephone Laboratories, Inc. Pulse code modulation decoder. 3,160,874, 12–8–64, Cl. 340—347.
Hampden Specialty Products Corp.: *See*—
Lockshin, Samuel D. 3,135,552.
Lockshin, Samuel D. 3,135,553.
Hampon, Verner W., N. H. F. Renwick, and G. D. Green, to Pneuways Development Co. (Private) Ltd. Track-mounted transport means or systems. 3,119,349, 1–28–64, Cl. 104—243.
Hampshire Mfg. Corp.: *See*—
Dunham, Philip N. 3,155,991.
Hampshire, William J., to Goodyear Aerospace Corp. Fiber cutter. 3,118,336, 1–21–64, Cl. 83—100.
Hampson, John C., to Rockwell-Standard Corp. Sinuous wire seat spring. 3,156,457, 11–10–64, Cl. 267—1.
Hampton, George L., to The Oak Rubber Co. Process of inflating expandible hollow article. 3,117,172, 1–7–64, Cl. 264—96.
Hampton, John K., Jr., to Tower Investment Co. Caging system for small laboratory animals. 3,125,068, 3–17–64, Cl. 119—17.
Hampton, Merle I.: *See*—
Billings, Orman B., and Hampton. 3,135,258.
Hampton, Quentin L. Sludge removing apparatus for a settling tank. 3,132,773, 5–12–64, Cl. 222—376.
Hampton, Thomas L., to General Electric Co. Intermediate rotor support structure. 3,117,826, 1–14–64, Cl. 308—26.
Hampton, Verner W., T. A. Johnson, N. H. F. Renwick, and G. D. Green, to Pneuways Development Co. (Private) Ltd. Railed transport means or systems. 3,126,839, 3–31–64, Cl. 104—247.
Hampton, William C., to American Instrument Co., Inc. Radio frequency gas chromatography apparatus with ballast coil and shorted inlet and outlet conduits. 3,128,427, 4–7–64, Cl. 324—33
Hampton, William F.: *See*—
Anderson, Edward E., Giggey, Hampton, and Shaw. 3,142,574.
Anderson, Edward E., Hampton, and Anti. 3,142,577.
Hampy, Ralph E.: *See*—
Ford, Elmer L., and Hampy. 3,138,652.
Hamrick, James C., to Jet Line Products, Inc. Method and apparatus for introducing lines through conduits. 3,120,947, 2–11–64, Cl. 254—134.4.
Hams, Anthony F.: *See*—
Clark, Nigel G., Stevenson, Brookes, and Hams. 3,119,736.
Hamson, Roger E., to Radio Corp. of America. Supports for electrical apparatus. 3,118,980, 1–21–64, Cl. 179—147.
Hamstell Corp., Ltd.: *See*—
Kraft, Frank B., and Rodger. 3,125,818.
Hamuro, Yukihiko: *See*—
Tanaka, Kuniyoshi, Mizuno, Sanno, and Hamuro. 3,157,635.
Hanaly and Harmon: *See*—
Coxe, Charles D. 3,117,894.
Hanashima, Yoshio: *See*—
Takahashi, Torizo, Fujimura, and Hamashima. 3,163,650.
Hanau Engineering Co., Inc.: *See*—
Beu, Richard A., and Janik. 3,159,915.
Hanau, Heinz, to Industrial Tectonics, Inc. Reinforcing graphite and plastic separators by electroformed metallic shells. 3,162,493, 12–22–64, Cl. 308—201.
Hanaway, Paul R., to Electro Mechanics, Inc. Solenoid operated switches. 3,130,282, 4–21–64, Cl. 200—87.
Hanback, Frank J., to The Weatherhead Co. Pipe coupling having a flexible sealing lip. 3,145,035, 8–18–64, Cl. 285—110.
Hanback, Frank J., to The Weatherhead Co. Seal ring. 3,147,015, 9–1–64, Cl. 277—205.
Hanchett Mfg. Co.: *See*—
Phelps, Clyde H. 3,130,588.
Hancock, John E. Reeling and unreeling apparatus. 3,127,126, 3–31–64, Cl. 242—99.
Hancock, John H.: *See*—
Stubblefield, Thomas A. 3,119,443.
Hancock, John L., to Amphenol-Borg Electronics Corp. Noise-eliminating means for self-winding electric clocks. 3,148,313, 9–8–64. Cl. 317—95.
Hancock, Roger H. Y.: *See*—
Firth, Donald, and Hancock. 3,120,816.
Firth, Donald, and Hancock. 3,130,684.
Firth, Donald, and Hancock. 3,142,157.
Firth, Donald, and Hancock. 3,142,262.
Firth, Donald, and Hancock. 3,155,983.
Firth, Donald, and Hancock. 3,159,041.
Firth, Donald, Hancock, and Hobson. 3,124,008.
Hancock Telecontrol Corp.: *See*—
Kohler, Charles F. 3,158,429.
Hand, Albert M., to General American Transportation Corp. Transferable freight containers. 3,140,005, 7–7–64, Cl. 220—1.5.
Hand, Larrabee D., Jr.: *See*—
Hignett, Travis P., Slack, Potts, and Hand. 3,161,467.
Hand, Leo J.: *See*—
Craigo, Cecil E., James, and Hand. 3,140,842.
Handa, Moriji: *See*—
Uemura, Saburo, and Handa. 3,147,347.
Handee-Pak Corp., The: *See*—
Iovenko, Michael. 3,124,825.
Handelman, Eileen T., to Bell Telephone Laboratories, Inc. Néel effect switching device. 3,149,298, 9–15–64, Cl. 338—22.
Handford, Charles D., to Hunter Douglas International (Quebec) Ltd. Roller type screens for windows. 3,149,665, 9–22–64, Cl. 160—327.
Handke, Patrick M.: *See*—
MacDonald, Ronald A., and Handke. 3,162,050.
Handlee, James C. Material conveying apparatus for bins. 3,158,294, 11–24–64, Cl. 222—227.
Handler, Alois: *See*—
Kesnickl, Eduard. 3,150,377.
Handler, Eugene H. Zero-length launching device for piloted and unpiloted water-based aircraft. 3,152,779, 10–13–64, Cl. 244—63.
Handler, Eugene H., to United States of America, Navy. Variable sweep hydrofoil. 3,162,166, 12–22–64, Cl. 114—66.5.
Handler, Milton E., and R. J. Bellon, to S. A. Hirsh Mfg., Co. Tray shelving. 3,139,258, 6–30–64, Cl. 248—243.
Handley, Harold E., to Textron, Inc. Safety control system for fluid distribution and apparatus. 3,157,197, 11–17–64, Cl. 137—458.
Handley, John. Perforating apparatus for perforating the elements of a signal combination. 3,136,481, 6–9–64, Cl. 234—115.
Handley, John R.: *See*—
Anglim, Charles E., Armer, and Handley. 3,140,580.
Handlovits, Carl E., H. A. Smith, and R. W. Lenz, to The Dow Chemical Co. Selective reduction of aromatic disulfides. 3,133,972, 5–19–64, Cl. 260—609.
Handrick, Kurt: *See*—
Benning, Anton, and Handrick. 3,160,653.
Handschin, Max G., to Multanova AG. Apparatus for measuring and recording the speed of motor vehicles, especially road vehicles. 3,137,538, 6–16–64, Cl. 346—18.
Handtmann, Albert, Firma: *See*—
Müller, Johann. 3,140,509.
Handwerk, Erwin C., to American Metal Climax, Inc. Fractionating apparatus. 3,149,194, 9–15–64, Cl. 266—33.
Handwerk, Joseph H., and E. D. Lynch, to United States of America, Atomic Energy Commission. Coherent nuclear reactor elements. 3,122,509, 2–25–64, Cl. 252—301.1.

Handy & Harman: *See*—
Chamer, Ernest S. 3,149,007.
Handy Hauler, Inc.: *See*—
Dickerson, James O. 3,158,302.
Handy, Raymond L. Bow arrow holder. 3,158,145, 11–24–64, Cl. 124—41.
Handy, Robert W.: *See*—
Kesslin, George, Flisik, and Handy. 3,121,751.
Hanefeld, Donald G.: *See*—
Curtis, John C., Hanefeld, and Fish. 3,137,353.
Hanegraaf, Johannes A., to Organon Inc. Preparation of 5α-bromo-6β-hydroxy steroids. 3,146,245, 8–25–64, Cl. 260—397.4.
Hanel, Ewald, H. Kohler, and W. Mayer, to Schubert & Salyer Maschinenfabrik Aktiengesellschaft. Apparatus for uniform cam adjustment in multiple-system circular knitting machine. 3,116,620, 1–7–64, Cl. 66—54.
Hänel, Ewald, H. Köhler, and W. Mayer, to Schubert & Salzer Maschinenfabrik Aktiengesellschaft. Contact ring for circular knitting machines. 3,122,008, 2–25–64, Cl. 66—42.
Haner, Lambert, to Avtron Mfg. Inc. Three-phase electronic signal generator. 3,137,825, 6–16–64, Cl. 331—45.
Haner, Lambert, and H. R. Ryerson, to Avtron Mfg., Inc. Frequency control system. 3,134,076, 5–19–64, Cl. 328—133.
Hanes, Vaughan D., to Aerojet-General Corp. Telescopic bridging plug-pressure set. 3,135,327, 6–2–64, Cl. 166—63.
Hanes, Vaughn D., to Robertshaw Controls Co. Pressure regulator. 3,137,312, 6–16–64, Cl. 137—505.15.
Hanesworth, Stanley D., Jr., to Phillips Petroleum Co. Recovery of volatile materials from flotable solids. 3,122,528, 2–25–64, Cl. 260—94.9.
Haney, Arthur L. Welder's helmet. 3,129,431, 4–21–64, Cl. 2—8.
Haney, Claude H.: *See*—
Frenkel, Marvin A., and Haney. 3,124,807.
Frenkel, Marvin A., and Haney. 3,132,348.
Frenkel, Marvin A., and Haney. 3,147,170.
Haney, Glenroy M.: *See*—
Holmes, Garnet B. 3,151,223.
Hanf, William P., to International Business Machines Corp. Double triangular array memory drive. 3,138,787, 6–23–64, Cl. 340—174.
Hanford, Edgar C., Jr., to Fairchild Stratos Corp. Winged hydrofoil watercraft. 3,139,059, 6–30–64, Cl. 114—66.5.
Hanggi, George J.: *See*—
Mussett, Harry L., and Hanggi. 3,148,643.
Hanghian, David L.: *See*—
Schaefer, Stephen, and Hanghian. 3,146,888.
Hanifan, William A.: *See*—
Van Alstyne, Martha J., and Hanifan. 3,139,744.
Haning, Charles B. Collapsible burner. 3,121,408, 2–18–64, Cl. 110—1.
Hanink, Dean K., and E. R. Price, to General Motors Corp. Oxidation-resistant turbine blades. 3,129,069, 4–14–64, Cl. 29—183.5.
Hanink, Dean K., and J. C. Holzwarth, to General Motors Corp. Joining titanium and titanium-base alloys to high melting metals. 3,156,978, 11–17–64, Cl. 29—495.
Hanink, Herman H.: *See*—
Hahn, Henry, Hanink, Lloyd, Loprete, and Lorsch. 3,123,242.
Hanish, Sam, to United States of America, Navy. Underwater transducer element. 3,150,347, 9–22–64, Cl. 340—10.
Hanisian, John: *See*—
Greco, Saverio G., and Hanisian. 3,150,199.
Hanke, Alvin A. and M. S.; said A. A. Hanke, assor. to said M. S. Hanke. Pulley. 3,127,779, 4–7–64, Cl. 74—230.14.
Hanke, Merlin S.: *See*—
Hanke, Alvin A. and M. S. 3,127,779.
Hanke, Merlin S. Adjustable pulley. 3,122,028, 2–25–64, Cl. 74—230.17.
Hanken, Albert F. G., to Industrial Nucleonics Corp. Measuring system for determining the mass of a dielectric material utilizing a capacitive probe at two frequencies. 3,155,900, 11–3–64, Cl. 324—61.
Hanken, Albert F. G., to Industrial Nucleonics Corp. System for quantitatively measuring one property of dielectric material by applying input signals at two different frequencies to a capacitance probe and varying one input signal to maintain a constant ratio of output signals for the two frequencies. 3,155,901, 11–3–64, Cl. 324—61.
Hankes, Elmer: *See*—
Procter, Samuel A. 3,153,728.
Hankey, Ernest H., and A. Kianpour, to Monsanto Co. Polymer blends consisting essentially of an intimate ternary fusion blend of a vinyl chloride polymer, a chlorinated olefin polymer and a surfactant. 3,145,187, 8–18–64, Cl. 260—23.
Hankey, John H. Inflatable weatherstripping. 3,159,884, 12–8–64, Cl. 20—56.4.
Hankins, Kenneth E., to C. H. Masland & Sons. Affixing heel pads to carpet. 3,133,980, 5–19–64, Cl. 264—257.
Hanks, Charles W.: *See*—
Du Bois, Andrew O., Harker, and Hanks. 3,132,198.
Hanks, Charles W., and C. d'A. Hunt, to Stauffer Chemical Co. Process and apparatus for refining loosely compacted refractory metals in an electron beam furnace. 3,131,051, 4–28–64, Cl. 75—10.
Hanks, Charles W., and H. R. Smith, Jr., to Stauffer Chemical Co. Focused electron-beam melting and casting. 3,145,436, 8–25–64, Cl. 22—57.2.
Hänlein, Walter: *See*—
Günther, Karl-Georg, and Hänlein. 3,120,621.
Hanley, Frank A. Destination selector. 3,126,862, 3–31–64, Cl. 116—119.
Hanley, George P.: *See*—
Albinson, Harold H., Hanley, Hulsing, Humphries, and May. 3,161,182.
Hanley, Timothy L.: *See*—
Lones, Dain B., and Hanley. 3,152,485.
Hanley, William G., and E. McClurg, to Rockwell-Standard Corp. Method and drill fixture for reboring brake anchor pin bores. 3,131,583, 5–5–64, Cl. 77—2.
Hanlon & Wilson Co.: *See*—
Wilson, John R., and Gerhardt. 3,151,894.
Hann, Gordon E., and A. Buehler, to The Tremco Mfg. Co. Asphaltic emulsion compositions. 3,142,578, 7–28–64, Cl. 106—277.
Hann, Melvin M., and H. C. Moon, Jr., to Sundstrand Corp. Hydrostatic transmission. 3,126,707, 3–31–64, Cl. 60—53.
Hanna, Alexander H.: *See*—
Crawford, Fred F., and Hanna. 3,136,911.
Hanna, Arthur W., to The Bendix Corp. Subminiature brush assembly. 3,147,359, 9–1–64, Cl. 200—166.
Hanna, Edward C., to Landis Machine Co. Inertia conveyor. 3,128,874, 4–14–64, Cl. 198—220.
Hanna, Edward C., to Landis Machine Co. Tailstock. 3,160,-041, 12–8–64, Cl. 82—31.
Hanna, John G. Fixture for grinding punches. 3,136,101, 6–9–64, Cl. 51—217.
Hanna, Lawrence J. Appliance for collapsible tube. 3,138,-292, 6–23–64, Cl. 222—99.
Hanna, Raymond E., and J. G. Koenigsmark, to The Bendix Corp. Distance measuring system. 3,150,366, 9–22–64, Cl. 343—12.
Hanna, Stanley S.: *See*—
Hamermesh, Morton, Hanna, and Perlow. 3,130,315.
Hannahs, Wilson H. Vapor plating copper. 3,119,713, 1–28–64, Cl. 117—107.1.
Hannan, John F., and A. P. Engelmann, to E. I. du Pont de Nemours and Co. Method of producing refractory metal. 3,146,094, 8–25–64, Cl. 75—84.5.
Hannan, Peter W., H. Jasik, and K. B. Woodard, to United States of America, Army. Twistreflector. 3,161,879, 12–15–64, Cl. 343—18.
Hannappel, Gunther, and E. Schallus, to Knapsack-Griesheim Aktiengesellschaft. Process for substantially reducing the consumption of arc electrodes. 3,151,266, 9–29–64, Cl. 314—25.
Hanneken, Henry P., and O. H. Rinne, to Pittsburgh Plate Glass Co. Glass cutting apparatus. 3,130,499, 4–28–64, Cl. 33—32.
Hanneman, Walter M., to Illinois Tool Works Inc. Screw. 3,125,923, 3–24–64, Cl. 85—47.
Hanneman, Walter M., to Illinois Tool Works Inc. Preassembled fastener unit with elliptical threads. 3,163,-196, 12–29–64, Cl. 151—37.
Hanneman, Walter W.: *See*—
Bolt, Robert O., and Hanneman. 3,123,534.
Walker, James H., and Hanneman. 3,148,942.
Hanner, Lester H. Soap saver. 3,148,430, 9–15–64, Cl. 25—7.
Hannes, George J.: *See*—
Fox, Herbert A., and Hannes. 3,141,811.
Hanni, Eduard. Sheet metal working machines. 3,157,080, 11–17–64, Cl. 82—54.
Hannig, Kurt: *See*—
Grassman, Wolfgang, and Hannig. 3,125,500.
Hannon, Charles N.: *See*—
Hannon, Warren W. and C. N. 3,161,000.
Hannon, Charles N. and W. W., said C. N. Hannon assor. to said W. W. Hannon. Apparatus for the packaging of newspapers or the like. 3,145,516, 8–25–64, Cl. 53—120.
Hannon, Donald F., to Laminators, Inc. Laminating press. 3,143,454, 8–4–64, Cl. 156—499.
Hannon Engineering Co.: *See*—
Hannon, Gilbert H. 3,140,218.
Hannon, Francis B.: *See*—
Reid, Gilbert R., Mueller, and Hannon. 3,145,260.
Hannon, F. R., & Sons, Inc.: *See*—
Hannon, Thomas W. 3,154,757.
Hannon, Gilbert H. Chain operated working head for material converting machinery. 3,122,467, 2–25–64, Cl. 156—583.
Hannon, Gilbert H., to Hannon Engineering Co. Repetitive operating forming head employing a pair of cooperating elements. 3,140,218, 7–7–64, Cl. 156—583.
Hannon, Gilbert H. Bag package. 3,161,347, 12–15–64, Cl. 229—69.
Hannon, Luke M., Jr.: *See*—
Chenoweth, James A., and Hannon. 3,134,595.
Hannon, Thomas W., to F. R. Hannon & Sons, Inc. Transformer with secondary winding suspended within primary core. 3,154,757, 10–27–64, Cl. 336—175.
Hannon, Warren W.: *See*—
Hannon, Charles N. and W. W. 3,145,516.
Hannon, Warren W. and C. H.; said C. N. Hannon, assor. to W. W. Hannon. Apparatus for folding and securing newspapers or the like. 3,161,000, 12–15–64, Cl. 53—120.
Hannula, Leslie A., to Burgess-Manning Co. Telephone enclosure panel. 3,148,246, 9–8–64, Cl. 179—6.3.
Hanny, John F.: *See*—
Herbig, James A., and Hanny. 3,161,602.

Hänny, Jost, to Sulzer Freres, Societe Anonyme. Apparatus for cooling gaseous media. 3,117,428, 1–14–64, Cl. 62—402.
Hänny, Jost, and H. Sixsmith. Apparatus for cooling gaseous media. 3,133,425, 5–19–64, Cl. 62—172.
Hänny, Jost, and A. Zürcher, to Sulzer Freres, S.A. Centering the piston of a piston compressor. 3,137,439, 6–16–64, Cl. 230—188.
Hanover Tool Co., Inc.: *See*—
Meckley, George E. 3,160,178.
Hansa Bryggeri, A/S: *See*—
Andersen, John M. 3,130,528.
Hanschitz, Rudolph, and W. Taft, to Electrostar G.m.b.H., Firma. Floor polisher. 3,154,802, 11–3–64, Cl. 15—49.
Hanscom, Frank E., and D. E. Hardy. Device for cleaning photographic film by rotating brushes and by the neutralization of static on the film. 3,128,492, 4–14–64, Cl. 15—308.
Hanscom, Frank E., and G. E. Harrington. Static neutralizers. 3,162,787, 12–22–64, Cl. 317—2.
Hanscom, Henry G. and R. H. Torque sensing mechanism. 3,142,177, 7–28–64, Cl. 73—139.
Hanscom, Richard H.: *See*—
Hanscom, Henry G. and R. H. 3,142,177.
Hanse, Albert B., and L. N. Kint, to Pettibone Mulliken Corp. Lower screen grate apparatus for rock crusher. 3,150,837, 9–29–64, Cl. 241—189.
Hanse, Albert B., and L. N. Kint, to Pettibone Mulliken Corp. Crusher apparatus and method of manufacture. 3,151,816, 10–6–64, Cl. 241—191.
Hanseatische Motoren-Gesellschaft m.b.H.: *See*—
Werner, Günther. 3,146,496.
Hänsel, Otto, Jr., G.m.b.H.: *See*—
Hänsel, Otto, Jr., and Lesch. 3,143,232.
Hänsel, Otto, Jr., and H. Lesch, to Otto Hänsel, Jr., G.m.b.H. Apparatus for transferring chocolate bars or the like from one conveying system to another. 3,143,232, 8–4–64, Cl. 214—310.
Hansel, Paul G., to Serro Corp. of America. Missile scoring system. 3,155,971, 11–3–64, Cl. 343—12.
Hansel, Paul G., F. G. Richter, and W. H. Paulstich, to Servo Corp. of America. Commutator. 3,129,392, 4–14–64, Cl. 333—7.
Hansel, Paul G., F. G. Richter, and W. H. Paulstich, to Servo Corp. of America. Broadband antenna array. 3,157,878, 11–17–64, Cl. 343—113.
Hansel, Raymond J.: *See*—
Mojonnier, George W., and Hansel. 3,155,125.
Hansel, William B., to Sun Oil Co. Adjustable back pressure valve. 3,152,616, 10–13–64, Cl. 138—40.
Hanselman, Cloyd L., to Divco-Wayne Corp. Locking mechanism for casket table. 3,155,417, 11–3–64, Cl. 296—16.
Hanselmann, Karl, to J. M. Voith, G.m.b.H. Adjusting mechanism for blades of fluid flow machines, especially torque converters. 3,146,626, 9–1–64, Cl. 74—96.
Hansen, Albert B. A.: *See*—
Hartmann, Louis M., and Hansen. 3,144,972.
Hansen, Benjamin H. Staklip. 3,146,505, 9–1–64, Cl. 24—81.
Hansen, Carl. Hook, line and sinker protector. 3,117,390, 1–14–64, Cl. 43—44.97.
Hansen, Chris K. Plant husbandry packaging and method. 3,134,196, 5–26–64, Cl. 47—37.
Hansen, Clifford M., ½ to C. J. Fox. Dolly for handling doors and the like. 3,138,265, 6–23–64, Cl. 214—1.
Hansen, Donald J.: *See*—
Dess, Howard M., and Hansen. 3,129,151.
Hansen, Elmer K. Hydraulic drive system. 3,163,008, 12–29–64, Cl. 60—97.
Hansen, George. Folding comb. 3,140,719, 7–14–64, Cl. 132—151.
Hansen, George E., A. Korzenowski, C. R. Stone, and R. H. Peterson, to Crane Co. Ball valve. 3,150,681, 9–29–64, Cl. 137—454.2.
Hansen, George E., and A. Korzenowski, to Crane Co. Fabricated stuffing box with gland eye-bolt arrangement. 3,158,377, 11–24–64, Cl. 277—105.
Hansen Glove Corp.: *See*—
Frentzel, Herman C. 3,156,336.
Hansen, Hans C. Automatic phonographs. 3,122,370, 2–25–64, Cl. 274—10.
Hansen, Hans C. Plural part core with exposed wound-core portion. 3,129,399, 4–14–64, Cl. 336—212.
Hansen, Hans C. Phonographs. 3,135,516, 6–2–64, Cl. 274—9.
Hansen, Hans C. Record changing phonographs. 3,162,449, 12–22–64, Cl. 274—10.
Hansen, Harold M., and R. S. Schultz, to American Can Co. Food dispensing package. 3,146,904, 9–1–64, Cl. 215—11.
Hansen, Harold V., to Deere & Co. Wheel track implement. 3,158,115, 11–24–64, Cl. 111—52.
Hansen, Homer: *See*—
Pearson, Clarence E., and Hansen. 3,146,660.
Hansen, Iver C., to Burroughs Corp. Diode head select matrix. 3,119,095, 1–21–64, Cl. 340—166.
Hansen, James G. Folding auxiliary table. 3,162,149, 12–22–64, Cl. 108—79.
Hansen, John A.: *See*—
Brainard, Wallace E., Hansen, Sedgwick, Sipek, and Baechle. Re. 25,583.
Hansen, John A., to United Aircraft Corp. Deflection voltage supply for electron beam welders. 3,131,289, 4–28–64, Cl. 219—121.
Hansen, John A., to McDowell-Wellman Engineering Co. Means for controlling the movement of pallets on a sintering machine. 3,141,544, 7–21–64, Cl. 198—203.
Hansen, John A., to United Aircraft Corp. Means for focusing beams of charged particles. 3,148,265, 9–8–64, Cl. 219—117.
Hansen, John A., C. A. Parske, and K. A. Riedel, to Kearney & Trecker Corp. Machine tool with a mechanical cutting tool changer. Re. 25,670, 10–27–64, Cl. 77—25.
Hansen, John R., E. B. Blanc, and I. F. Wagner, to Union Carbide Corp. Magnetic support for displaying merchandise. 3,149,268, 9–15–64, Cl. 317—159.
Hansen, Jorgen J. Electromagnetic and vacuum lifter. 3,159,418, 12–1–64, Cl. 294—64.
Hansen, Kaare, and E. J. Knutsen. Device for winding film strips onto a processing spool. 3,132,818, 5–12–64, Cl. 242—55.
Hansen, Larry F.: *See*—
Willett, Robert R., and Hansen. 3,136,892.
Hansen, Lester A.: *See*—
Campbell, John E., Hansen, Lanyon, and Oglesby. 3,135,590.
Hansen, Lewis C., and N. A. Zepell, to W. A. Sheaffer Pen Co. Clip assembly. 3,130,710, 4–28–64, Cl. 120—42.03.
Hansen, Lyle A., to Straight Engineering Co. Vehicle dumping apparatus. 3,118,550, 1–21–64, Cl. 214—49.
Hansen Mfg. Co., Inc.: *See*—
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Hansen, Norman N., to The Boeing Co. Punch card controlled switch mechanisms. 3,127,484, 3–31–64, Cl. 200—46.
Hansen, Olav R. Method and composition for inhibiting the germination of seeds. 3,158,460, 11–24–64, Cl. 71—2.6.
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Hansen, Quinten A. Mechanical clutch of the compact and self-contained type. 3,127,969, 4–7–64, Cl. 192—93.
Hansen, Robert V., to Allen-Bradley Co. Method and apparatus for producing permanent magnets. 3,136,033, 6–9–64, Cl. 29—155.6.
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Hansen, Roy A., and W. J. Holt, Jr., to The Gyrex Corp. Vibratory rate gyroscope. 3,127,775, 4–7–64, Cl. 73—505.
Hansen, Siegfried, and G. Fonda Bonardi, to Litton Systems, Inc. Fusion reactor. 3,155,592, 11–3–64, Cl. 176—1.
Hansen, Waldemar S., to Stewart-Warner Corp. Interlocking flexible casing. 3,152,459, 10–13–64, Cl. 64—3.
Hansen, Wilford N., to United States of America, Atomic Energy Commission. Purification process for uranium carbide. 3,125,497, 3–17–64, Cl. 204—1.5.
Hansen, William F. Meat hook trolley. 3,128,720, 4–14–64, Cl. 104—89.
Hansford, Reginald F., and E. Parker, to Decca Ltd. Apparatus for the transmission of radar data. 3,146,442, 8–25–64, Cl. 343—6.
Hansford, Rowland C., to Union Oil Co. of California. Co-precipitated alumina-zirconium oxide sulfate-containing catalyst. 3,132,110, 5–5–64, Cl. 252—440.
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Hansford, Rowland C., to Union Oil Co. of California. Silica-zirconia-titania hydrocracking catalyst. 3,159,588, 12–1–64, Cl. 252—452.
Hansford, Rowland C., and D. A. Young, to Union Oil Co. of California. Composite silica-zirconia hydrocracking catalyst and process. 3,120,483, 2–4–64, Cl. 208—110.
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Hanson, Alfred H. Remote control device for accelerator pedal. 3,129,604, 4–21–64, Cl. 74—482.
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Hanson, Bernard B., E. Stoligrosz, and J. E. Davis, to Whirlpool Corp. Broiler. 3,151,610, 10–6–64, Cl. 126—41.
Hanson, Chris A. Emergency signal apparatus. 3,154,050, 10–27–64, Cl. 116—124.
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Hanson, Frederick R., to The Upjohn Co. Process for preparing 6α-substituted-$\Delta^{1,4}$-3-ketosteroids. 3,138,541, 6–23–64, Cl. 195—51.

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Hanson, Glenn M., R. D. Frans, G. A. Heian, and E. W. Price, to Allis-Chalmers Mfg. Co. Pellet of iron ore and flux, apparatus and method for making same. 3,163,519, 12–29–64, Cl. 75—3.

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Hanson, John H. A., to Dunlop Rubber Co. Ltd. Corrosion resistant disc brake. 3,162,271, 12–22–64, Cl. 188—73.

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Hanson, Neil H. Portable electrical outlet and lighting assembly. 3,135,469, 6–2–64, Cl. 240—2.

Hanson, Palmer H. Bow tie holder. 3,125,386, 3–17–64, Cl. 312—134.

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Hanson, Raymond A. Level sensitive control circuit. 3,118,088, 1–14–64, Cl. 317—137.

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Hanson, Roy R., ¼ to W. H. Anderson, ¼ to J. H. Schierman, and ¼ to G. A. Blase. Weighing devices. 3,134,450, 5–26–64, Cl. 177—116.

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Hanssen, Stan B., to Hanson Scale Co. Zeroing device for bathroom type scales. 3,161,244, 12–15–64, Cl. 177—173.

Hansson, Ants, and E. J. Ripling, to Continental Can Co., Inc. Preparation of sheet stock having longitudinal internal weakening therein. 3,144,709, 8–18–64, Cl. 29—413.

Hansson, Ants, and C. E. Maier, to Continental Can Co., Inc. Preparation of expandable laminate stock and billet therefor. 3,157,474, 11–17–64, Cl. 29—187.

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Hanus, Edward J., and P. A. Ouellette, to Merck & Co., Inc. Non-aqueous oleaginous aerosol foam therapy of bovine mastitis. 3,135,658, 6–2–64, Cl. 167—53.2.

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Hardman, Albert F., to The Goodyear Tire & Rubber Co. N-(beta-cyanoethylalkyl) - 2 - arylenethiazole sulfenamide. 3,142,684, 7–28–64, Cl. 260—306.6.
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Hardy, Herbert L., to American Machine and Foundry Co. Friction welder variable electronic time control. 3,162,068, 12–22–64, Cl. 78—82.
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O'Brien, Richard C. 3,141,395.
O'Brien, Richard C., and Hunstiger. 3,139,803.
Proud, Ralph A., Jr. 3,118,355.
Reif, Peter M., and Lindemann. 3,140,091.
Sarring, Ernest J., and Kleineberg. 3,146,650.
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Harris, Irving F., and E. Wachter, to Simon Mattress Mfg. Co. Means to facilitate germicidal treatment of mattresses. 3,154,798, 11–3–64, Cl. 5—347.
Harris, Jacob W., to Dresser Industries, Inc. Pump plunger. 3,146,725, 9–1–64, Cl. 103—225.
Harris, James A. Sprinkler control system. 3,127,108, 3–31–64, Cl. 239—65.
Harris, James E. Regulating valve system. 3,158,141, 11–24–64, Cl. 123—103.
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Harris, Joel T., to Avien, Inc. Voltage parameter monitoring device. 3,127,589, 3–31–64, Cl. 340—149.
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Harris, John F., Jr., to E. I. du Pont de Nemours and Co. Diels-Alder adducts of acyclic polyfluoroperhaloketones and 1,3-dienes. 3,136,786, 6–9–64, Cl. 260—345.1.
Harris, John F., Jr., and D. I. McCane, to E. I. du Pont de Nemours and Co. Polymers of perfluoroalkoxy perfluorovinyl ethers. 3,132,123, 5–5–64, Cl. 260—87.
Harris, John F., Jr., and D. I. McCane, to E. I. du Pont de Nemours and Co. Copolymers of perfluorovinyl ethers. 3,159,609, 12–1–64, Cl. 260—87.5.
Harris, John J. Toilet flush valve and trip lever. 3,149,345, 9–22–64, Cl. 4—57.
Harris, John L. Control device. 3,135,908, 6–2–64, Cl. 318—476.
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Butler, Keith H., Harris, and Homer. 3,161,797.
Rulon, Richard M., Morgan, and Harris. 3,153,167.
Harris, Kenneth D.: *See*—
Charlton, George H., Ebdon, and Harris. 3,155,346.
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Harris, Kennyth E., and L. Perkins, to A. C. Cossor, Ltd. Transponders for use in secondary radar systems. 3,160,884, 12–8–64, Cl. 343—6.8.
Harris, Konstantine W., to The Magnavox Co. Device for handling printed circuit cards. 3,137,065, 6–16–64, Cl. 29—278.
Harris, Lawrence A., to General Electric Co. Bipotential cathode. 3,119,041, 1–21–64, Cl. 313—293.
Harris, Lawson P.: *See*—
Cobine, James D., and Harris. 3,149,247.
Harris, Leonard B., to Ny-Linn Chicago Corp. Heel lift. 3,141,248, 7–21–64, Cl. 36—34.
Harris, Leonard T., to Poor & Co. Link for crawler track. 3,128,130, 4–7–64, Cl. 305—53.
Harris, Le Roy S., to Schutte and Koerting Co. Pneumatic transmitters. 3,137,165, 6–16–64, Cl. 73—209.
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Harris, Orville R.: *See*—
Lloyd, Wallace G., Harris, and Updike. 3,127,899.
Harris, Philip H., to American Cement Corp. Rotary kiln. 3,124,338, 3–10–64, Cl. 263—33.
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Straley, James M., and Harris. 3,153,059.
Harris, Raymond N., and R. L. Knauss, to Armour and Co. Animal carcass trimming machine. 3,157,213, 11–17–64, Cl. 146—81.
Harris, Richard A., and W. R. Walter, Jr., to Western Electric Co. Inc. Apparatus for pneumatically conveying articles. 3,160,443, 12–8–64, Cl. 302—2.
Harris, Robert J. Portable car wash. 3,139,096, 6–30–64, Cl. 134—100.
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Cosby, John N., Gates, and Harris. 3,117,998.
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Harris, Royston S., to S. Smith & Sons (England) Ltd. Stalled motor thermal stopping control with preparation for reverse. 3,143,696, 8–4–64, Cl. 318—266.
Harris, Samuel. Dental flasks. 3,131,434, 5–5–64, Cl. 18—33.
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Harris, Samuel W., and J. R. Coley, to Standard Oil Co. Reforming process and catalyst therefor. 3,117,096, 1–7–64, Cl. 252—432.
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Harris, Sidney, and A. P. Dempsey, said Dempsey assor. to said Harris. Bottle wrapping apparatus. 3,121,647, 2–18–64, Cl. 118—202.

Harris, Sigmund P., to United States of America, Atomic Energy Commission. Method for measuring the power level of a nuclear reactor. 3,147,379, 9–1–64, Cl. 250—83.1.
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Harris, Thomas M., and J. W. Lynn, to Union Carbide Corp. 2-phenoxyethyl vinyl ethers and polymerization products thereof. 3,131,166, 4–28–64, Cl. 260—47.
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Harris, Wilbur T. 3,155,852.
Harris, Wilbur T., to The Harris Transducer Corp. Ring-shaped transducer. 3,142,035, 7–21–64, Cl. 340—10.
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Harris, William C., and P. L. Crowell, to S. C. Johnson & Sons. Valve actuating assembly for pressurized containers. 3,149,761, 9–22–64, Cl. 222—394.
Harris, William C., and P. L. Crowell, to S. C. Johnson & Son, Inc. Reciprocating marking stamp with removable printing element. 3,158,094, 11–24–64, Cl. 101—327.
Harris, William M., D. Mackie, and W. F. Meredith, to Titanium Zirconium Co., Inc. Glass polish and process of polishing glass. 3,123,452, 3–3–64, Cl. 51—307.
Harris, William S. Jet engine process using hydrogen produced from metal hydrocarbon mixture and water. 3,149,458, 9–22–64, Cl. 60—35.4.
Harrison, Benjamin, to Corby Enterprises Inc. Shaving assisting composition. 3,136,696, 6–9–64, Cl. 167—85.
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Harrison, Charles W., R. E. Graham, and A. M. Darbie, to Hewlett-Packard Co. Protection of circuit elements. 3,161,778, 12–15–64, Cl. 307—61.
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Harrison, Donald, to United Kingdom Atomic Energy Authority. Virtual-earth amplifiers. 3,121,199, 2–11–64, Cl. 328—128.
Harrison, Edmund, Jr., C. S. McArthur, and R. L. Yelverton, to American Machine & Foundry Co. Cigarette making machine. 3,146,780, 9–1–64, Cl. 131—21.
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Harrison, George C., and C. F. Gaetke, to Minnesota Mining and Mfg. Co. Closed molds for casting gaskets on pipe ends. 3,154,816, 11–3–64, Cl. 18—30.
Harrison, Gordon R., and L. R. Hodges, Jr., to Sperry Rand Corp. Temperature compensated yttrium gadolinium iron garnets. 3,132,105, 5–5–64, Cl. 252—62.5.
Harrison, Harold T., to The Presmet Corp. Powdered metal article and method of making. 3,120,436, 2–4–64, Cl. 75—200.
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Harrison, Henry and H. C. Egg beater. 3,144,241, 8–11–64, Cl. 259—128.
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Harrison, Hugh T., to The Dow Chemical Co. Piperidine hexafluorophosphate and hexafluoroarsenate compounds. 3,122,552, 2–25–64, Cl. 260—271.
Harrison, Hugh T., to The Dow Chemical Co. Aniline hexafluoroarsenate compounds. 3,132,166, 5–5–64, Cl. 260—440.
Harrison, Hugh T., to The Dow Chemical Co. Phenylhydrazine hexafluroroarsenate. 3,133,106, 5–12–64, Cl. 260—440.
Harrison, Hugh T., to The Dow Chemical Co. Semicarbazide hexafluoroarsenate. 3,133,107, 5–12–64, Cl. 260—440.
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Harrison, James B., and O. L. Mageli, to Wallace & Tiernan Inc. Method of preparing tertiary butyl peroxy esters. 3,138,627, 6–23–64, Cl. 260—453.
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Harrison, James M., to Crown Machine and Tool Co., Inc. Method of impregnating synthetic resin particles with lower aliphatic gas to render said particles foamable. 3,127,360, 3–31–64, Cl. 260—2.5.
Harrison, James M., to Crown Machine & Tool Co. Apparatus for molding a plastic article. 3,156,015, 11–10–64, Cl. 18—38.
Harrison, James M., to Crown Machine & Tool Co. Container. 3,156,371, 11–10–64, Cl. 220—6.
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Harrison, James W.: *See*—
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Harrison, James W., to United States of America, Atomic Energy Commission. Animal watering nipple and bottle cap combination. 3,149,611, 9–22–64, Cl. 119—72.5.
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Harrison, Kenneth J., to The Liner Concrete Machinery Co. Ltd. Mixing machines. 3,160,400, 12–8–64, Cl. 259—178.
Harrison, Le Vert, Jr. Movable motor vehicle parking space protector. 3,134,619, 5–26–64, Cl. 293—9.
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Harrison, Michael E., and J. E. Fitzgerald, to Thompson Ramo Wooldridge Inc. Method of producing accurately aligned patterns on opposite sides of a work piece. 3,156,563, 11–10–64, Cl. 96—36.
Harrison, Morton R. Camp stove. 3,152,585, 10–13–64, Cl. 126—2.
Harrison, Reginald J., to Sprague Electric Co. Cylindrical capacitor housing. 3,148,240, 9–8–64, Cl. 174—50.52.
Harrison, Robert A. Explosively activated bolt-holding wrench. 3,129,619, 4–21–64, Cl. 81—52.3.
Harrison, Robert R., to Baxter Laboratories, Inc. Non-coring needle. 3,119,391, 1–28–64, Cl. 128—221.
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Harrison, Robert W., to United Aircraft Corp. Fabrication of Cr-Y sheet. 3,162,530, 12–22–64, Cl. 75—214.
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Harrison, Thomas, and B. J. Cokeley, to Lehn & Fink Products Corp. Suppository applicator. 3,156,240, 11–10–64, Cl. 128—271.
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Harrison, Walter J., to Fischer Scientific Co. Apparatus for removing the effect of backlash in gear drives. 3,150,534, 9–29–64, Cl. 74—409.
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Harrison, Wayne T., and R. J. Carrigan, to Bigelow-Sanford, Inc. Axminster type loom. 3,157,206, 11–17–64, Cl. 139—7.
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Harshberger, Norman P. Containers. 3,137,614, 6–16–64, Cl. 162—231.
Harshberger, Russell P. Railway vehicle. 3,152,559, 10–13–64, Cl. 105—144.
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Hart, Irwin M., to Winko-Matic Signal Co. Traffic signal light. 3,161,853, 12–15–64, Cl. 340—107.
Hart, Jack A., to Nordberg Mfg. Co. Reversing transmission with a thrust bearing on the input shaft. 3,156,131, 11–10–64, Cl. 74—361.
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Hart, James P., M. L. Klein, H. C. Morgan, and R. B. Rush, to North American Aviation, Inc. Spanning monitor. 3,140,469, 7–7–64, Cl. 340—172.5.
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Hart, Oliver M. Portable insulated electric distribution structure and method of manufacture thereof. 3,153,119, 10–13–64, Cl. 174—72.
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Hart, Robert E., to Designs For Recreation Areas, Inc. Building structure. 3,143,194, 8–4–64, Cl. 189—34.
Hart, Robert W. Signal selecting apparatus. 3,131,368, 4–28–64, Cl. 333—71.
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Hart, Thomas. Gas light lamp post. 3,161,357, 12–15–64, Cl. 240—82.
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Hart, Thomas G., and J. E. Olbrych, to Avco Corp. Temperature regulation systems. 3,121,153, 2–11–64, Cl. 219—19.
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Hart, Walter A. Rock drill bit. 3,149,686, 9–22–64, Cl. 175—417.
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Harter, James R. R. Automatic marine beacon. 3,129,403, 4–14–64, Cl. 340—12.
Harter, James R. R. Method of launching a projectile using compressed gas. 3,142,293, 7–28–64, Cl. 124—11.
Harter, Matthew E. Method of and apparatus for post-forming plastic sheets. 3,147,326, 9–1–64, Cl. 264—296.
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Hartig, Henry E., to Control Corp. Polarized harmonic relay and method of operating same. 3,128,357, 4–7–64, Cl. 200—93.
Härting, Werner, to Daimler-Benz Aktiengesellschaft. Cylinder head seal. 3,139,009, 6–30–64, Cl. 92—171.
Hartke, Dexter C., and J. M. Idelsohn, to Hewlett-Packard Co. Electro-mechanical signalling apparatus. 3,141,160, 7–14–64, Cl. 340—347.
Hartke, Herman W., Jr., to Clark Equipment Co. Multi-directional vehicle bucket. 3,160,299, 12–8–64, Cl. 214—140.
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Hartley, Daniel, and N. W. Nelson, to Esso Research and Engineering Co. High temperature thermal cracking. 3,124,424, 3–10–64, Cl. 23—262.
Hartley, E. Dale. Fluid handling device. 3,121,399, 2–18–64, Cl. 103—142.
Hartley, Edward L. : *See*—
Probert, Rhys P., Martin, and Hartley. 3,126,705.
Hartley, Ezra D., to The Flo-Motive Corp. Fluid handling device. 3,150,600, 9–29–64, Cl. 103—142.
Hartley, Frederick W. : *See*—
Tyzack, Donald E., and Hartley. 3,154,674.
Hartley, Gilbert S., and R. Howes, to Fisons Pest Control Ltd. Agricultural chemical compositions. 3,133,809, 5–19–64, Cl. 71—2.7.
Hartley, Henry J., and A. J. Hollingsworth, to Bartlett-Snow-Pacific, Inc. Multiple hearth refractory furnace. 3,131,-919, 5–5–64, Cl. 263—22
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Sears, Hartley M. 3,133,526.
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Atkinson, John R., and Hartley. 3,157,651.
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Hartman, Clinton W., to CTS Corp. Variable resistor with high torque adjustment. 3,129,400, 4–14–64, Cl. 338—162.
Hartman, Edward L., to The Pangborn Corp. Partially hooded vane for abrasive blasting wheels. 3,162,983, 12–29–64, Cl. 51—9.
Hartman, Edward L., and R. W. Moore, to Pangborn Corp. Throwing wheel vane. 3,151,417, 10–6–64, Cl. 51—9.

Hartman, Frank B.: *See*—
Seeber, Robert R., Jr., and Hartman. 3,121,217.
Hartman, Herbert L., to The General Industries Co. Electric toothbrushes. 3,156,936, 11–17–64, Cl. 15—22.
Hartman, Herbert L., to The General Industries Co. Plural-speed phonograph turntable drive mechanisms. 3,162,447, 12–22–64, Cl. 274—9.
Hartman, James B., to Interstate Bakeries Corp. Guillotine type cinnamon roll cutter having epicycle gearing means connected to the cutter blade. 3,158,057, 11–24–64, Cl. 83—355.
Hartman, John A., and F. Passal, to M & T Chemicals Inc. Electrodeposition. 3,139,393, 6–30–64, Cl. 204—49.
Hartman, Richard A.: *See*—
Duffy, William B., and Hartman. 3,121,273.
Hartman, Robert B., to Remington Arms Co., Inc. Automatic pressure and vacuum cap. 3,138,173, 6–23–64, Cl. 137—493.8.
Hartman, Thomas L., to H_2O International, Inc. Method of producing refrigeration employing bicarbonate solutions. 3,124,939, 3–17–64, Cl. 62—112.
Hartmann & Braun Aktiengesellschaft: *See*—
Hohl, Rudolf. 3,144,296.
Stabe, Heinrich, and Hamburger. 3,122,914.
Hartmann, Fritz: *See*—
Wehrli, Kurt, and Hartmann. 3,147,917.
Hartmann, Hans: *See*—
Baltensperger, Paul, Dobsa, Hartmann, and Eidinger. 3,152,282.
Hartmann, Heinz, and A. Weber, to Stanley-Works G.m.b.H., Firma. Torque-transformer. 3,141,345, 7–21–64, Cl. 74—142.
Hartmann, Karl: *See*—
Evans, Michael E., and Hartmann. 3,151,991.
Hartmann, Kurt: *See*—
Wirth, Thomas, Ellermann, and Hartmann. 3,143,767.
Hartmann, Louis M., and A. B. A. Hansen, to Aktieselskabet Brodrene Hartmann. Container of fibrous material for hens' eggs. 3,144,972, 8–18–64, Cl. 229—2.5.
Hartmann, Ludwig A., to Atlas Chemical Industries, Inc. Purification of isosorbide. 3,160,641, 12–8–64, Cl. 260—347.8.
Hartmann Luggage Co.: *See*—
O'Neil, Harvey L. 3,161,271.
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Hartnell-Beavis, Michael C., to The General Electric Co. Ltd. Fuel elements for nuclear reactors. 3,133,000, 5–12–64, Cl. 176—78.
Hartnett, Maurice P., to A. F. Wintercorn. Attachment for rotary power mowers. 3,150,720, 9–29–64, Cl. 172—16.
Hartop, William L., Jr., and E. P. Brandes, to Abbott Laboratories. Stable thiobarbituric acid solution. 3,133,858, 5–19–64, Cl. 167—52.
Hartranft, Donald Z. Force measuring instruments. 3,141,-327, 7–21–64, Cl. 73—141.
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Taylor, Cecil I. 3,117,444.
Taylor, Cecil I. 3,119,258.
Hartshorn, Cyril, to Morpul Research Corp. Means for delivering light articles from one point to another. 3,129,-979, 4–21–64, Cl. 302—2.
Hartsock, Robert E. Sheet counter. 3,118,232, 1–21–64, Cl. 33—163.
Hartsock, Walter F., S. Iannuzzi, and A. Riuli, to Specialties Development Corp. Device for minimizing the collection of static electricity on shield for discharging carbon dioxide. 3,121,187, 2–11–64, Cl. 317—2.
Hartson, Oliver E., to The Tappan Co. Removable oven door assembly. 3,123,064, 3–3–64, Cl. 126—191.
Hartstra, Lenze, to Shell Oil Co. Preparation of nitriles. 3,129,240, 4–14–64, Cl. 260—465.
Hartung, Glenn J.: *See*—
Wilhite, Alfred M., and Hartung. 3,154,209.
Hartung, Homer C., to Columbian Steel Tank Co. Cam operated controlling valve. 3,119,406, 1–28–64, Cl. 137—351.
Hartung, Sigurd, E. Klauke, and H. Schwarz, to Farbenfabriken Bayer Aktiengesellschaft. Method of preparing organic isocyanates. 3,118,922, 1–21–64, 260—453.
Hartung, Walter, and W. Daume, said Daume assor. to said Hartung. Pressure medium controlled liquid valve for automatic flow limitation devices. 3,155,365, 11–3–64, Cl. 251—25.
Hartvig-Johansen, Leif. Dispensing container. 3,147,907, 9–8–64, Cl. 229—17.
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Poe, Lloyd R. 3,116,528.
Poe, Lloyd R. 3,150,893.
Hartwell, George W., to Dunham-Bush, Inc. Refrigeration system with compressor unloading means. 3,117,425, 1–14–64, Cl. 62—196.
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Crawford, James C., Jr., and Hartwell. 3,139,253.
Hartwig, Ernst, and W. Braun, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. 1-imino-3-oxo-4,7-diamino-5,6-phthaloyl-dihydro-isoindole dyestuffs. 3,137,699, 6–16–64, Cl. 260—272.
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Hage, William T., Ammon, and Hartwig. 3,129,314.
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Harvey, Mortimer T., and Rosamilia. 3,118,851.
Harty, Harold, J. J. Regimbal, K. G. Toyoda, and R. D. Widrig, to United States of America, Atomic Energy Commission. Core for a supercritical pressure power reactor. 3,156,625, 11–10–64, Cl. 176—40.
Harty, Millard F., Jr., to Michigan Brass Co. Handle. 3,129,606, 4–21–64, Cl. 74—543.
Hartz, Nelson W., and J. P. Strange, to Mine Safety Appliances Co. Removal of contaminants from gases. 3,154,682, 10–27–64, Cl. 250—44.
Hartz, Walter A., and M. Kallaur, to The General Tire & Rubber Co. Polyurethane reinforced brush. 3,142,081, 7–28–64, Cl. 15—179.
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Onksen, George W., and Hartzell. 3,153,741.
Hartzell, Herschell H., and H. E. Vickerman, to A. O. Smith Corp. Equalizer beam for truck trailers. 3,142,493, 7–28–64, Cl. 280—104.5.
Hartzler, Harris D., to E. I. du Pont de Nemours and Co. p-aminophenyl malononitrile and 3-diazo-6-dicyano-methyl-enecyclohexa-1,4-diene. 3,132,159, 5–5–64, Cl. 260—396.
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Harvey, Charles A.: *See*—
Edinger, Lester D., and Harvey. 3,132,828.
Harvey, Dennis E. A., and W. J. Pitts, to Associated Electrical Industries Ltd. Transistor frequency converter providing neutralization of degenerating impedance elements. 3,127,562, 3–31–64, Cl. 325—451.
Harvey, Douglass C., to Eastman Kodak Co. Roll film magazine and camera adapted to use same. 3,138,084, 6–23–64, Cl. 95—31.
Harvey, Earle M., to United States of America, Army. Grenade round with telescoping rifled barrel. 3,120,186, 2–4–64, Cl. 102—38.
Harvey, Earle M., to United States of America, Army. Adjustable blank firing attachment for automatic firearms. 3,137,204, 6–16–64, Cl. 89—14.
Harvey, Edward H.: *See*—
Fehling, Hans R., and Harvey. 3,124,107.
Fehling, Hans R., and Harvey. 3,140,695.
Fehling, Hans R., and Harvey. 3,145,286.
Harvey, Evelyn, to Kenn-Harvey Associates. Portfolio. 3,154,125, 10–27–64, Cl. 150—52.
Harvey, Gilbert N., and J. C. Moden. Correction of magnetic compasses. 3,122,841, 3–3–64, Cl. 33—224.
Harvey, Herbert A.: *See*—
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Harvey, Homer M., and D. H. Hart, to Harvey Aluminum (Inc.). Ball type mixing and volume control valve. 3,156,-260, 11–10–64, Cl. 137—625.41.
Harvey, John K., and P. E. Boliek, to Union Carbide Corp. Apparatus for dispersing finely-divided solids in liquids. 3,129,064, 4–14–64, Cl. 23—267.
Harvey, John K., and P. E. Boliek, to Union Carbide Corp. Apparatus for dispersing finely-divided solids in liquids. 3,147,955, 9–8–64, Cl. 259—4.
Harvey, John R.: *See*—
Cuzzone, Raymond, and Harvey. 3,163,208.
Harvey, Leslie A. Swimming training apparatus. 3,124,815, 3–17–64, Cl. 9—311.
Harvey, Louis A. Flower box. 3,118,250, 1–21–64, Cl. 47—41.
Harvey, Mahlon A., to United States Steel Corp. Separating-medium coating for preparation of electrical steel strip for annealing. 3,151,997, 10–6–64, Cl. 106—286.
Harvey, Mortimer T., to Harvel Research Corp. Composition comprising a glycidyl polyether and the reaction product of an acetone-formaldehyde condensate and a polyalkylene glycol. 3,121,703, 2–18–64, Cl. 260—42.
Harvey, Mortimer T., and P. L. Rosamilia, to Harvel Research Corp. Alkylene oxide adduct of a ketone-formaldehyde reaction product, and mixture thereof with an epoxy resin. 3,118,851, 1–21–64, Cl. 260—42.

Harvey, Mortimer T., and P. L. Rosamilia, to Minnesota Mining and Mfg. Co. Formaldehyde reaction product reacted with an alkylene oxide and mixture thereof with a polyglycidyl polyether. 3,119,781, 1–28–64, Cl. 260—42.

Harvey, Mortimer T., and P. L. Rosamilia, to Harvel Research Corp. Compositions of matter and method and steps of making and using the same. 3,130,172, 4–21–64, Cl. 260—6.

Harvey, Philo J., N. A. Reed, and E. S. Wright, to Parsfern, Inc. Artificial parsley garland. 3,130,109, 4–21–64, Cl. 161—25.

Harvey, Robert R., and E. M. Craighead, to Phillips Petroleum Co. Increasing miscible flooding efficiencies. 3,137,-345, 6–16–64, Cl. 166—9.

Harvey, Robert R., R. H. Langenheim, and J. C. Trantham, to Phillips Petroleum Co. Secondary recovery water flooding process. 3,160,205, 12–8–64, Cl. 166—9.

Harvey, Samuel E.: *See*—
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Harvey-Wells Corp.: *See*—
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Harwell, James M., Jr.: *See*—
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Harwood Engineering Co.: *See*—
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Harwood, Floyd E.: *See*—
Parsons, John T., and Harwood. 3,155,453.

Harwood, Geo. S., & Son, Inc.: *See*—
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Harwood, Harold J., to Monsanto Co. Method for making bisphosphinic acid compounds. 3,157,694, 11–17–64, Cl. 260—500.

Harwood, Julian L. Combined package and dispensing unit for pasty materials. 3,156,387, 11–10–64, Cl. 222—390.

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Pieron, Vernon, Smith, Harwood, and Ingalls. 3,116,832.

Harwood, Kenneth L., B. F. Smith, W. F. Meredith, and A. F. Ingalls, to Light Metals Corp. Extrusion puller equipment. 3,116,831, 1–7–64, Cl. 207—1.

Harwood, Kenneth L., A. F. Ingalls, B. F. Smith, and W. F. Meredith, to Light Metals Corp. Automatic extrusion gripper assembly. 3,118,539, 1–21–64, Cl. 207—1.

Harwood, Malcolm P., to Wedgelock Corp. of California. Axial load bearing anchoring means for fastener pins. 3,139,785, 7–7–64, Cl. 85—6.

Harwood, Malcolm P., to Wedgelock Corp. of California. Anchoring structure for releasable fastener pins. 3,144,-804, 8–18–64, Cl. 85—81.

Harwood, Richard J. Exercise machine. 3,134,378, 5–26–64, Cl. 128—25.

Harwood, Robert B. Paint design transfer tool. 3,142,082, 7–28–64, Cl. 15—210.5.

Harwood, Stanley G.: *See*—
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Hasbany, Woodrow A., to Clark Equipment Co. Control valve. 3,125,120, 3–17–64, Cl. 137—596.12.

Hasbrouck, Augustus, and L. H. Lippincott, to United Aircraft Corp. Gas bleed from rocket chamber. 3,127,738, 4–7–64, Cl. 60—35.6.

Hasbrouck, Augustus, and M. C. Benedict, to United Aircraft Corp. Injector head for liquid rocket. 3,132,481, 5–12–64, Cl. 60—39.46.

Haseda, Mizuho: *See*—
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Hasegawa, Hikaru, to Hitachi Ltd. Differential pressure transmitters. 3,140,613, 7–14–64, Cl. 73—407.

Hasegawa, Shoichi: *See*—
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Haselton, William M., and J. C. Walsh, to Cherry-Burrell Corp. Machine for stacking cases or boxes and the like. 3,126,104, 3–24–64, Cl. 214—6.

Hasenauer, Raymond J., Jr., to General Dynamics Corp. Electrical connector for a printed circuit board and cable. 3,158,421, 11–24–64, Cl. 339—176.

Hasha, Malvern M. Power spinner unit for well swivels. 3,144,085, 8–11–64, Cl. 173—164.

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Hashman, Joseph S.: *See*—
Edwards, James W., and Hashman. 3,140,990.

Hashman, Joseph S., J. C. Renforth, and J. W. Berkstresser, to Callery Chemical Co. Production of calcium superoxide. 3,119,665, 1–28–64, Cl. 23—187.

Hashman, Joseph S., and J. W. Berkstresser, to Callery Chemical Co. Preparation of tetralkylammonium superoxides. 3,119,870, 1–28–64, Cl. 260—567.6.

Hasin, Sidney L.: *See*—
Bertram, Sidney, and Hasin. 3,131,020.

Haskell, Boris: *See*—
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Haskell, Boris. Impedance networks and display panels utilizing the networks. 3,157,822, 11–17–64, Cl. 315—169.

Haskell, Donald M., to Phillips Petroleum Co. Recovery of olefin polymers from solution. 3,119,801, 1–28–64, Cl. 260—94.9.

Haskell, Elizabeth H.: *See*—
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Haskell, John W., and J. T. Lahti, to General Motors Corp. Push pull control for constant speed motor. 3,121,832, 2–18–64, Cl. 318—138.

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Haskell, Philip R., and R. K. Shaffer, to Remington Arms Co., Inc. Transmission for a chain saw. 3,142,196, 7–28–64, Cl. 74—414.

Haskell, Ronald J.: *See*—
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Haskett, Lester E., to Vapor Corp. Thermostatic control with adjustable dead zone. 3,148,830, 9–15–64, Cl. 236—68.

Haskin, Lawrence H., Jr., to The Inta-Roto Machine Co., Inc. Impression roll support and control means. 3,131,631, 5–5–64, Cl. 101—152.

Haskin, Lawrence H., Jr., to The Inta-Roto Machine Co., Inc. Reversible gear drive. 3,143,004, 8–4–64, Cl. 74—665.

Haskin, Lawrence H., Jr., to The Inta-Roto Machine Co., Inc. Doctor bar mechanism. 3,143,067, 8–4–64, Cl. 101—157.

Haskin, Lawrence H., Jr., to The Inta-Roto Machine Co., Inc. Apparatus for applying fluid to a web such as intaglio printing machines. 3,155,037, 11–3–64, Cl. 101—364.

Haskins, John E. Metallic building blocks and key construction. 3,133,616, 5–19–64, Cl. 189—2.

Haslacher, Alfred B., deceased; (by R. L. Haslacher, administrator), to M. L. Haslacher. Apparatus for sealing ends in impervious bags. 3,155,017, 11–3–64, Cl. 93—27.

Haslacher, Mabel L.: *See*—
Haslacher, Alfred B. 3,155,017.

Haslacher, Robert L.: *See*—
Haslacher, Alfred B. 3,155,017.

Haslam, James E. Magnetic car door protector. 3,147,176, 9–1–64, Cl. 161—39.

Haslam, John H., to E. I. du Pont de Nemours and Co. Method of preventing precipitation of iron compounds from an aqueous solution. 3,150,081, 9–22–64, Cl. 210—58.

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Haslett, Roy W. G., to Kelvin & Hughes Ltd. Echo-sounding equipment. 3,145,363, 8–18–64, Cl. 340—3.

Haslett, Roy W. G., and E. L. Freeman, to Kelvin & Hughes Ltd. Eddy current testing apparatus having means to relate electrical characteristics of a pickup unit to physical properties of a specimen. 3,159,784, 12–1–64, Cl. 324—34.

Haspert, John C., to Hughes Tool Co. Replaceable nozzle having completely shrouded retainer. 3,129,777, 4–21–64, Cl. 175—340.

Hass, Robert H., to Union Oil Co. of California. Exhaust purifying apparatus and method. 3,132,473, 5–12–64, Cl. 60—29.

Hass, Robert H., and C. P. Reeg, to Union Oil Co. of California. Hydrocracking process with pre-hydrogenation. 3,132,089, 5–5–64, Cl. 208—89.

Hassa, Richard, to G. Kromschroder Aktiengesellschaft. Control relay and valve. 3,145,762, 8–25–64, Cl. 158—123.

Hassa, Richard, to G. Kromschroder Aktiengesellschaft. Thermoelectrically operated semi-automatic flame control device for two or more burners. 3,157,222, 11–17–64, Cl. 158—131.

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Feffer, Philip C., Hasselbach, and Natale. 3,156,202.

Hasselbacher, Roland E.: *See*—
Bordeaux, Henry D., Gideonsen, Hasselbacher, and Jass. 3,153,966.

Hasselberg, William J. Gas- and air-moisture separator. 3,130,023, 4–21–64, Cl. 55—219.

Hasselblad, Fritz V.: *See*—
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Hasselhoff, Carl S., to The Mead Corp. Container for packaging mushrooms. 3,141,599, 7–21–64, Cl. 229—52.

Hassell, Collins E.: *See*—
Hassell, Dennis R. and C. E., and George. 3,147,781.

Hassell, Dennis R. Log bunk and stake assembly with positive latch and latch release. 3,129,955, 4–21–64, Cl. 280—145.

Hassell, Dennis R. and C. E., and P. E. George. Pole forming machine. 3,147,781, 9–8–64, Cl. 1144—3.

Hasselo, William C., to Container Corp. of America. Two piece bottle carton. 3,121,523, 2–18–64, Cl. 229—23.

Hasselquist, Paul B., and G. A. Estel, Jr., to Fluidyne Engineering Corp. Wind tunnel. 3,118,303, 1–21–64, Cl. 73—147.

Hasselquist, Victor H., to The B. F. Goodrich Co. Method and apparatus for butt splicing sheet material. 3,130,100, 4–21–64, Cl. 156—157.

Hasselquist, Victor H., to The B. F. Goodrich Co. Edge alignment apparatus. 3,140,868, 7–14–64, Cl. 271—59.

Hasselquist, Victor H., to The B. F. Goodrich Co. Fabric alignment apparatus. 3,143,343, 8–4–64, Cl. 271—59.

Hasselstrom, Torsten, and R. C. Clapp, to United States of America, Army. Synthesis of methylthiomethyl isothiocyanate. 3,160,649, 12–8–64, Cl. 260—454.

Hasselstrom, Torsten, and M. C. Henry. Synthesis of amino acids by high intensity ionizing radiation. 3,162,591, 12–22–64, Cl. 204—154.

Hassenfeld Bros., Inc.: *See*—
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Hässig, Jean-Marc: *See*—
Roche, Roland, Hässig, and Cousseran. 3,125,123.

Hassler, Gerald L., to The Regents of the University of California. Means and method for mass and heat transfer. 3,129,145, 4–14–64, Cl. 202—51.
Hassler, Gerald L., to The Regents of the University of California. Method and apparatus for separating solvents from solutions by distillation activated by pressure. 3,129,-146, 4–14–64, Cl. 202—51.
Hastings, Allan J., to The Boeing Co. Corrugated sheet. 3,151,947, 10–6–64, Cl. 29—180.
Hastings, Donald F., to The Bendix Corp. Pressure detecting instrument. 3,141,334, 7–21–64, Cl. 73—410.
Hastings, Dwight F. Free fall container. 3,117,606, 1–14–64, Cl. 150—1.
Hastings, Earle G., Jr. Charcoal cooker. 3,151,609, 10–6–64, Cl. 126—25.
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Stone, Robert R., Jr., and Hastings. 3,125,729.
Hastings, Jessie T., and B. D. Bailey; said Bailey assor. to said Hastings. Golf cart brake. 3,120,964, 2–11–64, Cl. 280—41.
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Ludwig, Arthur L. 3,144,673.
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Hastings, Russell, Jr., to Clark Equipment Co. Plural battery and plural motor control system for industrial truck. 3,134,063, 5–19–64, Cl. 318—139.
Hastings, Russell, Jr., to Clark Equipment Co. Lift truck control system. 3,135,357, 6–2–64, Cl. 187—9.
Hastings, Warren S. Sign mounting means for a vehicle bumper. 3,161,973, 12–22–64, Cl. 40—129.
Hastings, Whitney. Competitive paddle projectile. 3,158,373 11–24–64, Cl. 273—118.
Hasty, William H. Valve assembly. 3,118,647, 1–21–64, Cl. 251—65.
Haszeldine, Robert N., A. R. Parkinson, and J. M. Birchall. Polyfluorinated organo-mercury compounds and their preparation. 3,156,715, 11–10–64, Cl. 260—433.
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Hoffman, Stanley G., Van Ess, and Gillick. 3,156,926.
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Hatch, Albert J., to United States of America, Atomic Energy Commission. Method for confining a dense plasma. 3,120,477, 2–4–64, Cl. 176—1.
Hatch, George B., to Calgon Corp. Zinc silicofluoride composition and method of preventing corrosion. 3,120,425, 2–4–64, Cl. 21—2.7.
Hatch, James F., to The Maronic Co. Ltd. Radio goniometers and radio direction finders incorporating the same. 3,142,838, 7–28–64, Cl. 343—124.
Hatch, John R.: *See*—
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Thomas, George A. 3,147,809.
Hatch, Loranus P., and T. V. Sheehan, to United States of America, Atomic Energy Commission. Downflow packed bed nuclear fission reactor. 3,140,235, 7–7–64, Cl. 176—18.
Hatch, Loranus P., J. J. Reilly, and W. H. Regan, to United States of America, Atomic Energy Commission. Fluidized solids process for recovery of uranium from zirconium-type fuel elements. 3,149,909, 9–22–64, Cl. 23—14.5.
Hatch, Loranus P., J. J. Reilly, C. B. Bartlett, and R. Johnson, to United States of America, Atomic Energy Commission. Stainless steel decladding. 3,156,526, 11–10–64, Cl. 23—14.5.
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Hatch, William B., to Swedlow Inc. Control system for automatic pilot. 3,140,436, 7–7–64, Cl. 318—489.
Hatchard, William R., to E. I. du Pont de Nemours and Co. 3,4-dihalo isothiazolo[4,5,d]isothiazole and preparation thereof. 3,118,901, 1–21–64, Cl. 260—302.
Hatchard, William R., to E. I. du Pont de Nemours and Co. 4-cyanoisothiazolesulfenamides. 3,149,107, 9–15–64, Cl. 260—247.1.
Hatchard, William R., to E. I. du Pont de Nemours and Co. Certain isothiazole compounds and their production. 3,155,-678, 11–3–64, Cl. 260—302.
Hatchard, William R., to E. I. du Pont de Nemours and Co. 5,5-thiobis(isothiazole) compounds and their production. 3,155,679, 11–3–64, Cl. 260—302.
Hatcher, John B. Direct seeder. 3,119,359, 1–28–64, Cl. 111—83.
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Hatebur, Fritz B. Pressing device for cold forming or hot forming workpieces. 3,120,769, 2–11–64, Cl. 78—17.
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Hatfield, John G., to AMP Inc. Plug contactor. 3,134,633, 5–26–64, Cl. 339—217.
Hatfield, Richard F., to Jet Research Center, Inc. Process of making linear shaped charge explosive devices. 3,138,-054, 6–23–64, Cl. 86—1.
Hathaway, Charles A., to The Torrington Mfg. Co. Mixed-flow fan and method of making. 3,147,541, 9–8–64, Cl. 29—156.8.
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Berggren, Loring J., and Hathaway. 3,160,918.
Hathaway, James C., to Collins Radio Co. Wiring techniques for cores. 3,126,622, 3–31–64, Cl. 29—241.
Hathaway, James C., to Collins Radio Co. Character recognition circuit using multiaperture cores. 3,139,606, 6–30–64, Cl. 340—146.2.
Hathaway, Lewis, to United States of America, Navy. Adjustable bearing channel for echo ranging system. 3,127,-584, 3–31–64, Cl. 340—3.
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Hathorn, Don H., and B. T. O'Loughlin, to Halliburton Co. Method and apparatus for precision blending of composite fluid mediums. 3,161,203, 12–15–64, Cl. 137—8.
Hathorn, Roy C. Self-locking core. 3,149,393, 9–22–64, Cl. 25—128.
Hatke, Fred L. and G. W. Gray, to Radio Corp of America. Regulated transistor oscillator. 3,119,056, 1–21–64, Cl. 321—2.
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Haubrich, Ted. Collapsible bulk bin. 3,139,205, 6–30–64, Cl. 217—47.
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Haugland, Earl. Portable commutator dressing apparatus. 3,128,533, 4–14–64, Cl. 29—27.

Haugland, Earl W. Grain auger bag attachment. 3,163,280, 12–29–64, Cl. 198—1.

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Haugwitz, Otto, to Geoffroy-Delore, Societe Anonyme. Methods and apparatus for applying coverings to elongated members. 3,143,583, 8–4–64, Cl. 264—174.

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Häusermann, Heinrich, and H. U. Meyer, to J. R. Geigy, A.-G. Phenyl pyrazoline carboxylic acid esters. 3,141,879, 7–21–64, Cl. 260—247.2.

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Hauth, Joseph J., to United States of America, Atomic Energy Commission. Process for the fabrication of nuclear fuel elements. 3,141,911, 7–21–64, Cl. 264—69.

Hautly, Rudolph F. Chart recorder. 3,130,931, 4–28–64, Cl. 242—55.

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Hautmann, Heinrich, to P. Gossen & Co., G.m.b.H. Automatic diaphragm arrangement for cameras. 3,122,980, 3–3–64, Cl. 95—64.

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Havemeyer, Ruth N., to Olin Mathieson Chemical Corp. Suppository base comprising glycerin and a diester of polyethylene glycol. 3,163,576, 12–29–64, Cl. 167—64.

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Haviland, Robert P., to General Electric Co. Communication system employing means for adjusting the power between control and relay stations. 3,151,295, 9–29–64, Cl. 325—3.
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Hawley, Richard A., to Meat Packers Equipment Co. Method of filling a food mold. 3,134,681, 5–26–64, Cl. 99—174.
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Hawthorne, Herbert J., and P. P. Carey. Method and apparatus for rotary drilling with compressional waves. 3,142,345, 7–28–64, Cl. 175—57.
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Hawthorne, Quintin J., to Trans-Florida Aviation Inc. Airplane wing attachment and mounting therefor. 3,147,941, 9–8–64, Cl. 244—135.
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Hay, Donald I., C. J. Schram, and B. J. Wagg, to Lever Brothers Co. Dental tablet. 3,151,028, 9–29–64, Cl. 167—93.
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Hay, Robert D., and M. P. Hnilicka, Jr., to National Research Corp. Vacuum device. 3,149,742, 9–22–64, Cl. 220—10.
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Hay, Russell G., L. F. Meyer, and C. M. Selwitz, to Gulf Research & Development Co. Alkylation of benzene with propylene in the presence of a catalyst containing titanium tetrachloride, alkyl aluminum sesquichloride, and oxygen. 3,129,256, 4–14–64, Cl. 260—671.

Hay, Russell G., L. F. Meyer, and C. M. Selwitz, to Gulf Research & Development Co. Benzene alkylation with a catalyst consisting essentially of either $SbCl_5$ or $SnCl_4$ and alkyl aluminum sesquichloride. 3,134,822, 5–26–64, Cl. 260—671.

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Hayden, Ernest A. Attachment for chain saws. 3,134,409, 5–26–64, Cl. 143—32.

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Hayden, Robert L., E. G. Langlois, and D. C. Starkweather, to Western Electric Co., Inc. Wire stripping apparatus. 3,154,980, 11–3–64, Cl. 81—9.51.

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Hayek, Hermann, J. Zemann, J. Eisenwiener, and H. Renner, to P. Stoll. Coating apparatus. 3,146,128, 8–25–64, Cl. 118—64.

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Hayes, John C., to W. R. Grace & Co. Method of producing a non-caking fertilizer and the product thereof. 3,137,565, 6–16–64, Cl. 71—64.

Hayes, John C., and E. J. Bicek, to Universal Oil Products Co. Process for removing iron from an inorganic aluminum salt solution. 3,148,024, 9–8–64, Cl. 23—92.

Hayes, John E. Baby cradle undulating mechanism. 3,119,-125, 1–28–64, Cl. 5—109.

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Hayes, Maurice S. Hydraulic timing apparatus. 3,123,184, 3–3–64, Cl. 188—97.

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Hayman, David F., V. Petrow, and O. Stephenson, to The British Drug Houses Ltd. New 1-substituted-3-(*p*-vinylbenzenesulfonyl)ureas. 3,150,180, 9–22–64, Cl. 260—553.

Hayman, Max, and E. G. Hellenga, to Pilot Distributing Co. Bumper attachment for ball coupling hitch. 3,135,530, 6–2–64, Cl. 280—490.

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Haynes, Munro K., to International Business Machines Corp. Memory device. 3,157,778, 11–17–64, Cl. 235—92.

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Heimaster, John W., F. W. Jenkins, and R. L. McNeill, to Union Carbide Corp. Earth strata-hardness sensing systems. 3,150,519, 9–29–64, Cl. 73—78.

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Heimsch, Robert A., and W. E. Weesner, to Monsanto Co. Selective condensation of N-butyraldehyde in admixture with isobutyraldehyde. 3,148,218, 9–8–64, Cl. 260—601.

Hein, Allyn J., and J. E. Scheidt, to Caterpillar Tractor Co. Hydraulic circuit for control of earthmoving scraper bowls. 3,127,688, 4–7–64, Cl. 37—129.

Hein, Allyn J., and J. A. Junck, to Caterpillar Tractor Co. Hydraulic circuit for actuation of an earthmoving scraper ejector. 3,138,884, 6–30–64, Cl. 37—129.

Hein, August E., to Baker Perkins Inc. Table top chain link conveyor construction. 3,144,124, 8–11–64, Cl. 198—189.

Hein, Joseph F., and R. G. Renius, to General Motors Corp. Clutch and starter assembly. 3,128,639, 4–14–64, Cl. 74—572.

Hein, Louis T. Pelt-drying frame. 3,137,963, 6–23–64, Cl. 45—24.

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Heinelt, Roland, to H. and F. W. Deckel. Engraving and copying machine. 3,130,643, 4–28–64, Cl. 90—13.1.

Heineman, Henry F. Saturable reactor position transducer. 3,128,625, 4–14–64, Cl. 73—209.

Heinemann, Bernard, I. R. Hooper, and M. A. Kaplan, to Bristol-Myers Co. Amphomycin and its production and recovery. 3,126,317, 3–24–64, Cl. 167—65.

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Heinemann, Otto, to Polysius G.m.b.H. Heat exchanger and chemical reactor. 3,127,250, 3–31–64, Cl. 34—57.

Heinemann, Otto, to Allis-Chalmers Mfg. Co. Treating finely divided material in suspension. 3,136,536, 6–9–64, Cl. 263—21.

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Heininger, Samuel A., and G. H. Birum, to Monsanto Co. Toxic arylsulfonyl haloalkanenitriles. 3,140,307, 7–7–64, Cl. 260—465.

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Heise, Carl-Hermann. Wheel and frame arrangement for road building vehicle. 3,136,564, 6–9–64, Cl. 280—81.
Heise, Carl-Hermann. Movable storage bin and hopper. 3,141,576, 7–21–64, Cl. 222—160.
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Heise, Kurt, to SCM Corp. Combined typewriter and calculator. 3,146,941, 9–1–64, Cl. 235—60.12.
Heiser, Edward J., and R. W. Morgan, to The Dow Chemical Co. Method for preparation of asbestos paper and sheeting. 3,153,610, 10–20–64, Cl. 162—155.
Heiser, Elmer F. Piston and cylinder device. 3,157,095, 11–17–64, Cl. 91—395.
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Heiss, Frederick H., K. C. Rolin, and F. J. Baudhuin, to Valspar Corp. Dispensing machine with protective atmosphere. 3,134,509, 5–26–64, Cl. 222—135.
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Heiss, Herbert L., ½ to Monsanto Co., and ½ to Mobay Chemical Co. Substantially non-porous polyurethane plastic and method for producing same. 3,143,517, 8–4–64, Cl. 260—18.
Heiss, Rudolf, E. Bocker, and G. Unterstenhofer, to Farbenfabriken Bayer Aktiengesellschaft. M-dimethylamino-p-methyl phenyl-N-methyl carbamate and p-dimethylamino M-methyl phenyl-N-methylcarbamate. 3,134,806, 5–26–64, Cl. 260—479.
Heiss, Rudolf, E. Böcker, and G. Unterstenhofer, to Farbenfabriken Bayer Aktiengesellschaft. Protecting plants from insects with 2-dimethyl-aminophenyl-N-methyl-carbamate. 3,160,554, 12–8–64, Cl. 167—30.
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Heizman, Charles L., to International Business Machines Corp. Amplitude bistable circuits. 3,138,718, 6–23–64, Cl. 307—88.
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Hell, Rudolf, H. Keller, F.-O. Zeyen, and E. Hennig, to Dr.-Ing. Rudolf Hell, Kiel K.G. Method and apparatus for multicolor printing. 3,124,036, 3–10–64, Cl. 88—24.
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Heller, László, L. Forgo, and J. Bödas, to Licencia Talalmanyokat Ertekesito Vallalat. Water distributor chamber for heat exchangers and partitions therefor. 3,151,674, 10–6–64, Cl. 165—158.
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Helliwell, Guy S., to Samuel Pegg & Son Ltd. Hank dyeing machines. 3,159,992, 12–8–64, Cl. 68—206.
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Hellmig, Ehrhard, to Agfa Aktiengesellschaft. Process and photographic material for the production of photographic records and copies which are corrected for tone value. 3,141,773, 7–21–64, Cl. 96—68.
Hellmig, Ehrhard, and H. Berger, to Agfa Aktiengesellschaft. Photographic material for the production of photographic records with tone value correction. 3,130,053, 4–21–64, Cl. 96—68.
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Helmbold, Theodor. Transverse flow type blowers. 3,144,203, 8–11–64, Cl. 230—125.
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Hemery, Jack L., to Continental Freezers of Illinois, division of F. H. Prince & Co., Inc. Frozen food storage and conveyance means. 3,127,755, 4–7–64, Cl. 62—267.
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Heming, Arthur E., and D. E. Holtkamp, to Smith Kline & French Laboratories. Method of reducing cholesterol levels. 3,157,574, 11–17–64, Cl. 167—65.
Heming, Edward W., P. E. Renshaw, M. R. Dilling, and S. D. Barger, to Tally Register Corp. Automatic sequence controlled computer. 3,138,702, 6–23–64, Cl. 235—157.
Hemingway, Elizabeth J., G. E. Lee, D. G. Orton, and W. R. Wragg, to May & Baker Ltd. 4-amino-2-(halophenylalkyl)-5-methylpyrimidines. 3,133,066, 5–12–64, Cl. 260—256.4.
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Hemmeter, George T. Wheel balancer. 3,152,483, 10–13–64, Cl. 73—484.
Hemmeter, George T. Positioner for a wheel balancer. 3,152,484, 10–13–64, Cl. 73—484.
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Hemminger, Paul W., to International Telephone and Telegraph Corp. Called-line tone-signaling system. 3,156,781, 11–10–64, Cl. 179—84.
Hempel, Charles H., to Heresite & Chemical Co. Pigmented synthetic rubber coating. 3,134,688, 5–26–64, Cl. 117—161.
Hempel, Herman P., to International Business Machines Corp. Non-destructive read-out. 3,126,529, 3–24–64, Cl. 340—174.
Hempel, Roy A., to Textron Electronics, Inc. Electronic counter circuit selectively responsive to input pulses for forward or reverse. 3,155,836, 11–3–64, Cl. 307—88.5.
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Campbell, George T. R., Laskey, and Hemsley. 3,143,225.
Hemstock, Russell A., to Esso Research and Engineering Co. Recovery of bitumen from tar sands utilizing an evacuation step. 3,139,397, 6–30–64, Cl. 208—11.
Hemstreet, Edward G., to Lyon Inc. Spoke type wheel cover. 3,145,059, 8–18–64, Cl. 301—37.
Hemwall, John B., to The Dow Chemical Co. Use of 6,6′-alkylidenebis (benzoxazines) for improving physical properties of clays and clay-containing soils and compositions resulting therefrom. 3,124,472, 3–10–64, Cl. 106—84.
Hemwall, John B., to The Dow Chemical Co. Use of 8,8′-methylenebis(benzoxazines) for improving physical properties of clays and clay-containing soils and compositions resulting therefrom. 3,124,473, 3–10–64, Cl. 106—84.
Hemwall, John B., to The Dow Chemical Co. Method for improving physical properties of clays and clay-containing soils and compositions resulting therefrom (3,3′-ABB). 3,126,290, 3–24–64, Cl. 106—84.
Hemwall, John B., to The Dow Chemical Co. Use of thiobisphenols for improving physical properties of clays and clay-containing soils and compositions resulting therefrom. 3,132,957, 5–12–64, Cl. 106—84.
Hemwall, John B., to The Dow Chemical Co. Use of methylene polyphenols for improving physical properties of clays and clay-containing materials and compositions resulting therefrom. 3,132,958, 5–12–64, Cl. 106—84.
Hemwall, John B., to The Dow Chemical Co. Method for improving physical properties of clays and clay-containing soils and compositions resulting therefrom. 3,132,960, 5–12–64, Cl. 106—287.
Hemwall, John B., to The Dow Chemical Co. Method for imparting improved properties to clays and clay-containing materials by use of 2-aminophenols and compositions resulting thereby. 3,148,995, 9–15–64, Cl. 106—72.
Hemwall, John B., to The Dow Chemical Co. Catechol compounds in improving clays and clay-containing materials. 3,148,997, 9–15–64, Cl. 106—287.
Hemwall, John B., to The Dow Chemical Co. Method for improving physical properties of clays and clay-containing materials and compositions resulting therefrom. 3,151,998, 10–6–64, Cl. 106—287.
Henatsch, Reynold. Call transmitting devices. 3,129,294, 4–14–64, Cl. 179—90.
Henc, Edward V., to Design & Manufacture, Inc. Rotary die cutting apparatus and method. 3,119,312, 1–28–64, Cl. 93—58.2.
Henchert, John, to Continental Can Co., Inc. Pouring nozzle with captive cap. 3,117,702, 1–14–64, Cl. 222—543.
Henchert, John, to Continental Can Co., Inc. Pouring nozzle with captive cap. 3,117,703, 1–14–64, Cl. 222—546.
Henchert, John, to Continental Can Co., Inc. Plastic cover crimped to flanged metal body. 3,128,008, 4–7–64, Cl. 220—54.
Henchert, John, to Continental Can Co., Inc. Spray nozzle with tethered closure. 3,131,870, 5–5–64, Cl. 239—567.
Henchert, John, to Continental Can Co., Inc. Closure plug means. 3,133,666, 5–19–64, Cl. 220—60.
Henchert, John, to Continental Can Co., Inc. Bail attachment for can tops. 3,138,284, 6–23–64, Cl. 220—91.
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Henderson, Ashland S., and J. R. Riede, to Reserve Mining Co. Continuous automatic ore assay system. 3,139,578, 6–30–64, Cl. 324—34.
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Henderson, Charles B., and J. M. Burton, to Atlantic Research Corp. Process for generating gases and apparatus therefor. 3,126,704, 3–31–64, Cl. 60—39.47.
Henderson, Charles F., to United States of America, Agriculture. Dispenser for granular materials. 3,140,800, 7–14–64, Cl. 222—174.
Henderson, Clifford W., to Radio Corp. of America. Method of making electrical conductors. 3,159,486, 12–1–64, Cl. 96—36.
Henderson, Clyde, D. O. Fraker, and G. J. Finck, to Dunham-Bush, Inc. Refrigeration system and evaporative cooling units. 3,137,145, 6–16–64, Cl. 62—183.
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Henderson, Courtland M., and D. M. Harris, to Monsanto Chemical Co. Thermoelectricity. 3,127,287, 3–31–64, Cl. 136—4.
Henderson, Courtland M., and R. G. Ault, to Monsanto Co. Emissive materials of a metal matrix with molecularly dispersed additives. 3,134,924, 5–26–64, Cl. 313—346.
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Henderson, Courtland M., and R. J. Janowiecki, to Monsanto Co. Exothermic compositions containing boron compounds. 3,153,605, 10–20–64, Cl. 149—22.
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Henderson, George R., to Columbia Broadcasting Systems, Inc. Memory plane. 3,142,047, 7–21–64, Cl. 340—174.
Henderson, Harold P. Heat indicating protective cap for lubricant fittings. 3,147,824, 9–8–64, Cl. 184—88.
Henderson, Henry B., to Automotive Products Co. Ltd. Spot-type disc brakes. 3,141,527, 7–21–64, Cl. 188—73.
Henderson, Henry B., to Automotive Products Co. Ltd. Disc brakes. 3,141,528, 7–21–64, Cl. 188—73.
Henderson, Henry B., to Automotive Products Co. Ltd. Automatic adjusting devices for disc brakes. 3,158,234, 11–24–64, Cl. 188—196.
Henderson, Henry C., and P. W. Heath. Tire pressure indicator. 3,129,689, 4–21–64, Cl. 116—34.
Henderson, Henry C., Jr. Rolling element on moving surface toy. 3,137,506, 6–16–64, Cl. 273—109.
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Henderson, Stanford A., to Gomco Surgical Mfg. Corp. Valve and pump assembly for closing and irrigating fluid drainage tube. 3,142,299, 7–28–64, Cl. 128—276.
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Hendricks, George D., to The Gamewell Co. Traffic adjusted traffic control systems. 3,120,651, 2–4–64, Cl. 340—35.
Hendricks, George D., T. B. Bartlett, and G. E. Fieser, to E. W. Bliss Co. Traffic signal control toner sequencer and responder. 3,159,817, 12–1–64, Cl. 340—171.
Hendricks, John G., to Stowe-Woodward, Inc. Device for determining finger-hole positions in bowling balls. 3,156,050, 11–10–64, Cl. 33—174.
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Hendrickson, Melvin C., and G. V. Morris, to Zenith Radio Corp. Communication receiver. 3,140,346, 7–7–64, Cl. 178—5.1.
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Hendrix, Charles E., P. C. Driver, and D. D. Stevenson, to United States of America, Navy. Control system for automatic soft landing of a rocket vehicle. 3,154,265, 10–27–64, Cl. 244—1.
Hendrix, Dewey. Cushion buffing machine. 3,133,380, 5–19–64, Cl. 51—32.
Hendrix, Hubert L. Span car. 3,163,124, 12–29–64, Cl. 104—135.
Hendrix, Palmer G., and H. D. Whisnant, to Whisnant Hosiery Mills, Inc. Method of treating hosiery fabric. 3,135,578, 6–2–64, Cl. 8—116.
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Hendrix, William L. Method of stringing cable. Re. 25,549, 4–7–64, Cl. 254—134.3.
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Hendry, James W., to Borg-Warner Corp. Extruder screw with right angle discharge. 3,137,035, 6–16–64, Cl. 18—12.
Henebry, William M., to United States of America, Navy. Pulse generating circuit having a high repetition rate utilizing avalanche transistor-coaxial line combination. 3,141,981, 7–21–64, Cl. 307—88.5.
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Hengstenberg, Kurt, to R. Hengstenberg. Bottle closure. 3,130,849, 4–28–64, Cl. 215—79.
Hengstenberg, Kurt, and C. Korch, to Richard Hengstenberg, Firma. Apparatus for filling containers with a leaf-like material mixed with a liquor. 3,139,122, 6–30–64, Cl. 141—275.
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Heninger, Grant O., to Varian Associates. Apparatus for maintaining constant phase angle of parametric preamplifier output. 3,122,711, 2–25–64, Cl. 330—4.9.
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Henke, Burton L., to Philips Electronics and Pharmaceutical Industries Corp. Ultra-soft X-ray source. 3,138,729, 6–23–64, Cl. 313—57.
Henke, Raymond. Leaf collection device. 3,135,984, 6–9–64, Cl. 15—257.1.
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Henker, Heinz, J. Grabmaier, T. Rummel, and H. F. Quast, to Siemens & Halske Aktiengesellschaft. Apparatus for producing rod-shaped semiconductor bodies. 3,134,695, 5–26–64, Cl. 118—49.5.
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Henle, Robert A., and J. B. Mackay, to International Business Machines Corp. Transistor power inverter circuit. Re. 25,573, 5–12–64, Cl. 307—88.5.
Henle, Robert A., W. W. Lawrence, Jr., J. B. Pace, and H. P. Wolff, to International Business Machines Corp. Esaki diode memory. 3,134,963, 5–26–64, Cl. 340—173.
Henley, Donald H., to Pan American Petroleum Corp. Method of conducting reservoir pilot tests with a single well. 3,163,211, 12–29–64, Cl. 166—4.
Henley, Edward J. LC oscillator with phase shifting frequency controls. 3,162,825, 12–22–64, Cl. 331—108.
Henley, J Carl. Self locking cleat. 3,120,043, 2–4–64, Cl. 24—132.
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Henn, Cecil B., B. B. Johnstone, and W. R. Walter, Jr., ½ to The Western Electric Co., Inc., and ½ to United Shoe Machinery Corp. Article conveyor and storage device. 3,135,375, 6–2–64, Cl. 198—131.
Henn, Richard W., to Eastman Kodak Co. Photographic developer compositions containing an antistain agent. 3,161,513, 12–15–64, Cl. 96—61.
Henn, Richard W., to Eastman Kodak Co. Nonstaining photographic developers. 3,161,514, 12–15–64, Cl. 96—66.
Henn, Richard W., and C. A. Goffe, to Eastman Kodak Co. Hardened high-contrast photographic silver chloride emulsions and method of processing. 3,128,180, 4–7–64, Cl. 96—27.
Henn, William, and A. S. Robinson, to The Bendix Corp. Carrier signal attenuation as a function of two variables. 3,151,240, 9–29–64, Cl. 235—197.
Henne, Alfred M., to United States of America, Navy. Digital bearing readout for sector scan sonar. 3,129,402, 4–14–64, Cl. 340—3.
Henne, Fred M. Thermodynamically balanced heat regain system. 3,130,908, 4–28–64, Cl. 236—49.
Henne, Willibald, to Telefunken Patentverwertungs-G.m.b.H. Magnetic device for focusing an electron beam. 3,141,116, 7–14–64, Cl. 317—200.
Henne, Willibald, and R. Johne, to Telefunken Aktiengesellschaft. Electrostatic type focussing device for hollow tubular electron beams. 3,119,044, 1–21–64, Cl. 315—3.6.
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Henneman, John W., and A. C. Tracy, to The Bendix Corp. Fluid control. 3,127,891, 4–7–64, Cl. 128—144.
Hennequin, Maurice. Stamping machines. 3,128,698, 4–14–64, Cl. 101—235.
Hennequin, Maurice, to Societe d'Etudes et de Construction d'Appareils de Precision. Device for stacking letters and the like. 3,160,293, 12–8–64, Cl. 214—7.
Hennessen, Walter, R. Mauler, and G. Ross, to Behringwerke Aktiengesellschaft. Stable, solid, oral live antipoliomyelitis vaccine compositions and process for preparing them. 3,143,473, 8–4–64, Cl. 167—78.
Hennessey, Raymond G., to Fairchild Camera & Instrument Corp. Lip sync control apparatus and method for sound film projectors. 3,124,995, 3–17–64, Cl. 88—16.2.
Hennessey, Raymond G., and K. Li Donnici, to Fairchild Camera and Instrument Corp. Flexible strip guide. 3,125,-272, 3–17–64, Cl. 226—196.
Hennessey, Russell J., to Waldorf Paper Products Co. Reclosable carton. 3,144,195, 8–11–64, Cl. 229—51.
Hennessey, Russell J., to Waldorf Paper Products Co. Compartmented carton. 3,157,344, 11–17–64, Cl. 229—27.

Hennessey, William M., to Burroughs Corp. Package for electronic apparatus. 3,151,210, 9–29–64, Cl. 174—59.
Hennessey, William M., to Burroughs Corp. Electrical connectors. 3,157,449, 11–17–64, Cl. 339—66.
Hennessy, James J., to Hennessy Lubricator Co., Inc. Antisplash seal for railway journal box. 3,151,917, 10–6–64, Cl. 308—83.
Hennessy, James J., Jr., to Hennessy Lubricator Co., Inc. Railway journal box lubricant distributor. 3,135,563, 6–2–64, Cl. 308—88.
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Henning, Donald S., to Curtis-Electro Lighting, Inc. Fluorescent lighting fixture. 3,120,929, 2–11–64, Cl. 240—51.11.
Henning, Eugene W., to General Electric Co. Direct-current amplifier. 3,145,346, 8–18–64, Cl. 330—9.
Henning, George E., and M. W. Richter, to Western Electric Co., Inc. Apparatus for extruding plastic compounds. 3,121,255, 2–18–64, Cl. 18—13.
Henning, George J.: *See*—
Koenig, John E., Henning, and Dietz. 3,136,469.
McCuskey, James R., Baugh, Koenig, and Henning. 3,120,321.
Henning, Hermann: *See*—
Menneking, Hartmut, and Henning. 3,158,947.
Henning, James C., to The New York Air Brake Co. Pump. 3,128,708, 4–14–64, Cl. 103—5.
Henning, Sverker A., and S. S. Petersson, to Arenco Aktiebolag. Conveyor. 3,120,892, 2–11–64, Cl. 198—179.
Henning, Wolfgang, to GEMI-Metallwarenfabrik. Strap clamp. 3,116,529, 1–7–64, Cl. 24—274.
Henninger, Karl, to T. Box. Case for bottles and the like. 3,120,322, 2–4–64, Cl. 220—72.
Henninger, Paul, and F. Gaenge, to Siemens & Halske Aktiengesellschaft. Method of and device for making a regenerative capacitor. 3,123,895, 3–10–64, Cl. 29—25.42.
Hennings, Werner, and E. Zimmermann. Method of and apparatus for cutting glass tubes. 3,157,328, 11–17–64, Cl. 225—2.
Henningsen, Etlar A., to Deere & Co. End gate closure mechanism for a material unloader. 3,163,336, 12–29–64, Cl. 222—505.
Henningsen, Etlar A., M. J. Martens, and J. E. Hoffman, Jr., to Deere & Co. Control mechanism for spreader. 3,143,353, 8–4–64, Cl. 275—3.
Hennis, Henry E.: *See*—
Easterly, James P., and Hennis. 3,152,148.
Henny, Willi, to Chrysler Corp. Fixed nozzle support. 3,151,841, 10–6–64, Cl. 253—39.1.
Henocq, Cecil: *See*—
Axon, Peter E., and Henocq. 3,137,767.
Henrichsen, William. Flying toy. 3,124,898, 3–17–64, Cl. 46—82.
Henrickson, Angus V.: *See*—
Hazen, Wayne C., and Henrickson. 3,151,933.
Henrickson, Angus V., to Kerr-McGee Oil Industries, Inc. Process for separating uranium and vanadium values. 3,157,462, 11–17–64, Cl. 23—14.5.
Henricot, Paul E. E. A. A. Liners for ball and tube mills. 3,125,302, 3–17–64. Cl. 241—183.
Henrie, Thomas A., H. Dolezal, and E. K. Kleespies, to United States of America, Interior. Magnesium reduction of titanium oxides in a hydrogen atmosphere. 3,140,170, 7–7–64, Cl. 75—84.
Henriksen, Ernst J. J. Fountain pen structures. 3,139,864, 7–7–64, Cl. 120—42.4.
Henrikson, Bror W., and K. O. Schneider, to American Seating Co. Flush banded table top. 3,151,713, 10–6–64, Cl. 189—34.
Henriksson, Sven F., and C. R. Taylor. Auxiliary brake mechanism. 3,117,654, 1–14–64, Cl. 188—29.
Henry, Albert G., and W. E. Johnson. Curb trimming machine. 3,141,507, 7–21–64, Cl. 172—15.
Henry, Alvan R. Silent toilet tissue roll. 3,145,940, 8–25–64, Cl. 242—55.2.
Henry, Beulah L. Supplemental ribbon attachment for typewriters and the like. 3,159,264, 12–1–64, Cl. 197—153.
Henry, Charles L., B. J. Barrett, C. M. Guest, Jr., and N. Floros, to American Enka Corp. Treatment of cellulose products. 3,118,725, 1–21–64, Cl. 8—116.4.
Henry, Clemence J.: *See*—
Kay, Edward L., Tierney, Krug, and Henry. 3,125,528.
Siegart, William R., and Henry. 3,125,526.
Siegart, William R., Henry, Odell, and Toettcher. 3,125,525.
Henry, Edward N.: *See*—
Specht, Theodore R., and Henry. 3,148,308.
Henry, Edwin B., Jr., and G. J. Klrchner, to United States Steel Corp. Synchronous shutter for X-ray inspecting apparatus. 3,119,019, 1–21–64, Cl. 250—105.
Henry, Frederick D.: *See*—
Nelson, Gordon A., and Henry. 3,135,057.
Henry, Georges. Apparatus for adjusting the operating contions of tank furnaces. 3,149,952, 9–22–64, Cl. 65—347.
Henry, Harry L. Lift truck. 3,144,239, 8–11–64, Cl. 254—4.
Henry, Hugh F., to United States of America, Atomic Energy Commission. Neutron detector unit utilizing indium. 3,140,397, 7–7–64, Cl. 250—83.1.
Henry, Jack L., and W. A. Klemm, to Kaiser Aluminum & Chemical Corp. Electrolytic cell for the production of aluminum. 3,161,579, 12–15–64, Cl. 204—243.
Henry, James L.: *See*—
Brooks, Chester E., Crofutt, Henry, and Sand. 3,123,674.
Brooks, Chester E., and Henry. 3,129,291.
Henry, James W.: *See*—
Howe, Donald J., Maurer, and Henry. 3,161,509.
Henry, James W., to Standard Packaging Corp. Carton having hinged cover. 3,125,280, 3–17–64, Cl. 229—51.
Henry, James W., and W. D. Kennedy, to Eastman Kodak Co. Record and package therefor. 3,140,095, 7–7–64, Cl. 274—42.
Henry, Jerome L., Jr.: *See*—
Duncan, Donal B., Henry, and Blitzer. 3,140,482.
Henry, John C. Utility tool for carpenter. 3,119,424, 1–28–64, Cl. 145—64.
Henry, Joseph P.: *See*—
Clark, Jared W., Henry, and Rectenwald. 3,157,707.
Henry, Joseph P., and J. W. Clark, to Union Carbide Corp. Production of monochloroacetonitrile. 3,121,735, 2–18–64, Cl. 206—465.7.
Henry, Kenneth M., and W. E. Smith, to Owens-Illinois Glass Co. Process for making devitrified products. 3,117,881, 1–14–64, Cl. 106—39.
Henry, Lyell D. Counter means. 3,157,354, 11–17–64, Cl. 235—119.
Henry, Lyell D. Phonograph needle cleaning device. 3,162,445, 12–22–64, Cl. 274—1.
Henry, Malcolm C.: *See*—
Hasselstrom, Torsten, and Henry. 3,162,591.
Henry, Ralph E.: *See*—
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Henry, Ralph E., to Dresser Industries, Inc. Pressure relief means for pump. 3,146,720, 9–1–64, Cl. 103—42.
Henry, Ralph R.: *See*—
Murrell, Thomas, and Henry. 3,148,328.
Henry, Robert C., to Universal Oil Products Co. Phthalocyanine catalyst regeneration. 3,148,156, 9–8–64, Cl. 252—420.
Henry, Rosie J. Hospital and invalid mattresses. 3,142,070, 7–28–64, Cl. 5—91.
Henry, Samuel P., and H. C. Kiess, to General Motors Corp. Material handling apparatus. 3,139,195, 6–30–64, Cl. 214—1.
Henry, Thomas P.: *See*—
Astleford, John J., Jr., Henry, and Leonard. 3,126,500.
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Jones, Evan. 3,142,287.
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Du Vall, Wilbur E. 3,134,968.
Henry, William F., and S. I. Greenberg, to The Pillsbury Co. Process for starch modification with chlorine. 3,123,502, 3–3–64, Cl. 127—71.
Henry-Baudot, Jacques, to Printed Motors, Inc. Reciprocating linear motor system. 3,136,934, 6–9–64, Cl. 318—130.
Henry-Baudot, Jacques, to Printed Motors, Inc. Rotating electric machines with printed circuit windings. 3,144,574, 8–11–64, Cl. 310—268.
Henry-Baudot, Jacques, to Printed Motors Inc. Electrical synchro-machines of the axial air-gap type. 3,153,165, 10–13–64, Cl. 310—268.
Henry-Baudot, Jacques, to Printed Motors, Inc. Electric rotary machines of the axial air gap type with compensated reaction of armature. 3,159,761, 12–1–64, Cl. 310—186.
Henry-Baudot, Jacques, to Printed Motors Inc. A. C. synchronized electric rotary machines. 3,159,764, 12–1–64, Cl. 310—268.
Henry-Biabaud, Edmond, to Andre Citroen, Societe Anonyme. Wear or play take-up device for hydraulically actuated parts. 3,138,003. 6–23–64, Cl. 60—54.6.
Henry-Biabaud, Edmond, to Andre Citroen, Societe Anonyme. Devices for maintaining between two predetermined values the pressure in hydraulic circuits. 3,149,639, 9–22–64, Cl. 137—108.
Henry-Biabaud, Edmond, to Societe Anonyme Andre Citroen. Load-responsive hydraulic braking system. 3,153,560, 10–20–64, Cl. 303—22.
Henry-Biabaud, Edmond, to Societe Anonyme Andre Citroen. Internal combustion engine. 3,154,061, 10–27–64, Cl. 123—191.
Henry-Biabaud, Edmond, to Societe Anonyme Andre Citroen. Fluid-actuated clutch and brake. 3,155,208, 11–3–64, Cl. 192—13.

Henry-Biabaud, Edmond. Fuel output adjustment apparatus. 3,156,251, 11–10–64, Cl. 137—117.
Hens, Carl, to Compagnie de St. Gobain. Process and apparatus for bending glass. 3,123,459, 3–3–64, Cl. 65—106.
Henschel-Werke G.m.b.H.: *See*—
Tross, Arnold. 3,140,762.
Henschen, Homer E., to AMP Inc. Electrical contact. 3,155,449, 11–3–64, Cl. 339—217.
Henschke, William O., to R. E. Phelon Co., Inc. Flywheel magneto having short circuiting means. 3,145,315, 8–18–64, Cl. 310—70.
Henschke, William O., and J. C. van Amsterdam, to R. E. Phelon Co., Inc. Connector for coil or the like. 3,141,923, 7–21–64, Cl. 174—59.
Hense, Theo, to Olympia Werke A.G. Digital conversion and storage system (input device for electronic computers). 3,161,854, 12–15–64, Cl. 340—172.5.
Hensel, Erich. Fitting for detachably connecting wooden parts of articles of furniture. 3,129,472, 4–21–64, Cl. 20—92.
Hensel, Hans R.: *See*—
Tartter, Arnold, Hensel, and Baumann. 3,126,377.
Hensel, Hans R., H. Baumann, A. Tartter, and H. Weissauer, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Metal-complex dyes with halogenpyridazone radicals. 3,126,367, 3–24–64, Cl. 260—146.
Hensel, Hans R., H. Baumann, A. Tartter, and H. Weissauer, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Dyes with halogenpyridazone radicals. 3,126,369, 3–24–64, Cl. 260—154.
Hensel, Hans R., H. Baumann, K. Dury, and W. Federkiel, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Azo dyestuffs containing dihalogenpyridazone groups. 3,126,370, 3–24–64, Cl. 260—154.
Hensel, Otto: *See*—
Feld, Erich, Hensel, and Roos. 3,133,798.
Henselelt, Anna T.: *See*—
Cremer, Walter, Kolks, Stanke, and Henseleit. 3,162,584.
Hensgen, Bernard T., and O. A. Clemens, to Swift & Co. Apparatus for preparing equal weight slices of product. 3,133,571, 5–19–64, Cl. 146—95.
Hensgen, Bernard T., and D. K. Jewell, to Swift & Co. Apparatus for removing meat from bones. 3,154,804, 11–3–64, Cl. 17—1.
Henshaw, William H., to Esterline Angus Instruments Co., Inc. Recording pen and ink supply system. 3,146,058, 8–25–64, Cl. 346—140.
Hensler, Joseph R., to Bausch & Lomb Inc. Metallic surface glass article. 3,118,788, 1–21–64, Cl. 117—212.
Hensley, James L., to Tysaman Machine Co., Inc. Severing apparatus. 3,146,553, 9–1–64, Cl. 51—99.
Hensley, Orvil E. Brush assembly with attachment clamp. 3,142,853, 8–4–64, Cl. 15—160.
Hensley, Reece V., to Pneumo Dynamics Corp. Rocket nozzle. 3,131,535, 5–5–64, Cl. 60—35.6.
Hensley, Reece V., to Pneumo Dynamics Corp. Solid propellant rocket thrust vectoring system. 3,142,153, 7–28–64, Cl. 60—35.55.
Hensley, Robert K., Jr. Key and coin lock for cleaning depository. 3,121,486, 2–18–64, Cl. 194—54.
Hensley, William A., Jr., to Phillips Petroleum Co. Tuning fork frequency generator. 3,152,307, 10–6–64, Cl. 331—116.
Hensley, William H., J. T. Fitzpatrick, and D. C. Torgeson, to Union Carbide Corp. Halogenated alkyl sulfone fungicides. 3,136,687, 6–9–64, Cl. 167—22.
Hensman, George K.: *See*—
Davies, David O., Keen, and Hensman. 3,135,562.
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Rantsch, Kurt. 3,124,880.
Räntsch, Kurt. 3,130,633.
Räntsch, Kurt, and Weyrauch. 3,134,838.
Rantsch, Kurt, and Weyrauch. 3,142,718.
Henson, James A. All purpose farm machine. 3,128,729, 4–14–64, Cl. 111—1.
Henson, Mable R. Snap fastener. 3,156,962, 11–17–64, Cl. 24—217.
Henson, Nell T.: *See*—
Terry, William B. 3,137,072.
Henson, Paul M., and J. Spivey, Jr., to International Paper Co. Paper roll finishing apparatus. 3,162,560, 12–22–64, Cl. 156—361.
Henson, Thomas L., to Baker Perkins Inc. Ovens. 3,144,243, 8–11–64, Cl. 263—6.
Henszey, Richard R., to C. E. Rogers Co. Spray drying apparatus. 3,129,131, 4–14–64, Cl. 159—4.
Henyon, Lewis E., to Clark Equipment Co. Transmission. 3,142,195, 7–28–64, Cl. 74—359.
Henze, Henry. Fishing reels. 3,138,343, 6–23–64, Cl. 242—84.1.
Hepher, Martin, and W. M. Przezdziecki, to Eastman Kodak Co. Photographic material for spirit duplicating. 3,152,898, 10–13–64, Cl. 96—28.
Hepher, Martin, A. Marriage, A. M. Vincent, and L. A. Williams, to Eastman Kodak Co. Process of lithographic printing. 3,161,508, 12–15–64, Cl. 96—29.
Hepp, Rudolf. Means for assembling books of variable compass. 3,130,966, 4–28–64, Cl. 270—54.
Hepp, Rudolf. Process and apparatus for collating sheets. 3,162,434, 12–22–64, Cl. 270—57.
Heppenstall Co.: *See*—
Johnson, John C. 3,160,945.
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McPhee, Alexander H., and Reid. 3,123,557.
Nimke, Helmut E., McPhee, and Reid. 3,156,939.
Hequembourg, Charles W.: *See*—
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Heraeus Quarzschmelze G.m.b.H.: *See*—
Heraeus, Wilhelm H., and Mohn. 3,128,169.
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Heraeus, Wilhelm H., and H. Mohn, to Heraeus Quarzschmelze G.m.b.H. Process for making quartz glass casings. 3,128,169, 4–7–64, Cl. 65—111.
Herb, Raymond G., to Wisconsin Alumni Research Foundation. Apparatus for evaporating materials. 3,117,210, 1–7–664, Cl. 219—19.
Herbarn, Zweigniederlassung der Berkenhoff & Drebes Aktiengesellschaft: *See*—
Pfeiffer, Hans. 3,159,271.
Herbenar, Edward J., to Thompson Ramo Wooldridge Inc. Ball joint. 3,128,110, 4–7–64, Cl. 287—90.
Herbenar, Edward J., to Thompson Ramo Wooldridge, Inc. Articulated dual stud linkage joint. 3,135,540, 6–2–64, Cl. 287—87.
Herbenar, Edward J., and R. A. Rasmussen, to Thompson Ramo Wooldridge Inc. Leveling valve. 3,143,361, 8–4–64, Cl. 280—124.
Herbenar, Edward J., and N. A. Stenzel, to Thompson Ramo Wooldridge Inc. Automatically compensated hydrodynamic retarder fill system. 3,146,863, 9–1–64, Cl. 188—90.
Herbener, Henry M. Ladies' girdles. 3,148,681, 9–15–64, Cl. 128—533.
Herbener, Henry M. Billfolders and method of producing the same. 3,151,651, 10–6–64, Cl. 150—35.
Herber, Pierre, and W. T. Sproull, to Joy Mfg. Co. Collecting electrodes and electrode system for electrical precipitators. 3,125,426, 3–17–64, Cl. 55—130.
Herbert, Albert J.: *See*—
Berger, Herbert F., Gehm, and Herbert. 3,120,464.
Herbert, Erwin L.: *See*—
Warwick, John, and Herbert. 3,139,243.
Herbert, Harold W., to Sylvania Electric Products Inc. Electrode shield. 3,161,798, 12–15–64, Cl. 313—240.
Herbert, James C., to Jones & Lamson Machine Co. Pivoting tracing tool. 3,128,657, 4–14–64, Cl. 82—14.
Herbert, Michael V., W. G. E. Lewis, and D. H. Mallinson, to Power Jets (Research and Development) Ltd. Control systems for gas turbine engines. 3,158,996, 12–1–64, Cl. 60—35.6.
Herbert, Thomas A., Jr., to Rohr Corp. Apparatus for making curved sandwich panels. 3,128,734, 4–14–64, Cl. 113—99.
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Thormann, Kurt, Herbert, and Kohrt. 3,120,993.
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Campbell, Roderick D., and Herbets. 3,124,806.
Herbig, Henry F., H. G. Whitehead, M. Padalino, G. M. Nonnemacher, and B. McAdams, to International Telephone and Telegraph Corp. Sound monitoring and recording system. 3,144,519, 8–11–64, Cl. 179—100.1.
Herbig, James A., and I. O. Salyer, to Monsanto Chemical Co. Binary blends of styrene/acrylonitrile copolymer and (cyanoethoxy)ethyl acrylate polymer and methods for preparing the same. 3,117,103, 1–7–64, Cl. 260—45.5.
Herbig, James A., and I. O. Salyer, to Monsanto Chemical Co. Binary blends of styrene/acrylonitrile copolymer and butyl acrylate/acrylonitrile copolymer and methods for preparing the same. 3,118,855, 1–21–64, Cl. 260—45.5.
Herbig, James A., and I. O. Salyer, to Monsanto Co. Binary polyblends of styrene/acrylonitrile copolymer and chlorosulfonated ethylene polymer. 3,158,665, 11–24–64, Cl. 260—897.
Herbig, James A., and J. F. Hanny, to The National Cash Register Co. Process for making capsules. 3,161,602, 12–15–64, Cl. 252—316.
Herbine, Stanley C., and W. R. Bohner, to The Electric Storage Battery Co. Safety cap with attachment mounting a shield thereon. 3,137,005, 6–16–64, Cl. 2—10.
Herbkersman, Earle C., to The Pipe Machinery Co. Indexing mechanism. 3,141,356, 7–21–64, Cl. 74—822.
Herbkersman, Earle C., to The Pipe Machinery Co. Multistation machine including work-holding and positioning apparatus. 3,153,276, 10–20–64, Cl. 29—38.

Herbold, Robert J.: *See*—
Kimball, Oliver P., Herbold, and Buck. 3,141,396.
Herbruck, Robert A. Breather bag. 3,125,014, 3–17–64, Cl. 99—235.
Herbst, Benjamin T. Tree shaker. 3,121,304, 2–18–64, Cl. 56—328.
Herbst, Benjamin T. Self-propelled fruit catching apparatus. 3,145,521, 8–25–64, Cl. 56—329.
Herbst, Clarence A., to Resinoid Engineering Corp. Hydraulic brake plunger and method of making same. 3,139,010, 6–30–64, Cl. 92—248.
Herbst, John A. Hydraulic actuator shaft, bearing and seal. 3,140,902, 7–14–64, Cl. 308—36.1.
Herbst, William: *See*—
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Herbstman, Sidney. Direct radiator high fidelity loudspeaker. 3,143,183, 8–4–64, Cl. 181—31.
Herchenroeder, Louis W., to Westinghouse Electric Corp. Contouring control apparatus. 3,148,316, 9–8–64, Cl. 318—19.
Herco Products, Inc.: *See*—
Martin, John L. 3,130,626.
Hercules, Christopher De J. Resilient cushion tire and wheel. 3,127,920, 4–7–64, Cl. 152—325.
Hercules Galion Products, Inc.: *See*—
Herpich, William A. 3,157,032.
Herpich, William A., and Yochem. 3,119,503.
Hercules Powder Co.: *See*—
Buntin, George A. 3,150,183.
Buntin, George A. 3,163,674.
Carter, Richard P., and Parkinson. 3,154,577.
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Desmarais, Armand J. 3,151,996.
Diveley, William R., and Pombo. 3,150,179.
Dunn, Cecil G., Fuld, Kusmierek, Lim, and Wang. 3,120,472.
Fritz, Fred A. 3,135,785.
Gagliano, Louis J., and Wanser. 3,156,575.
Gloor, Walter E. 3,157,599.
Godsey, James H. 3,152,027.
Haubein, Albert H. 3,140,167.
Heck, Richard F. 3,137,715.
Heck, Richard F. 3,157,626.
Jacobs, John K., and Norman. 3,154,385.
Johnstone, Paul L. 3,137,745.
Klug, Eugene D. 3,117,014.
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Klug, Eugene D. 3,131,176.
Klug, Eugene D., and Roberson. 3,131,177.
Kutner, Abraham. 3,151,102.
Lambert, Charles M. 3,135,698.
Lefren, Edward K. 3,154,386.
Lehane, Jeremiah P., Jr. 3,137,672.
Levering, Dewey R. 3,152,184.
Levine, Max, and Kuhn. 3,159,449.
Long, Wendell P. 3,152,105.
Lukach, Carl A., Spurlin, and Olson. 3,153,023.
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Matlack, Albert S. 3,127,372.
Martin, Arthur F. 3,154,473.
Naudain, Edward A. 3,135,379.
Preckel, Ralph F. 3,116,597.
Rachinsky, Michael R. 3,125,462.
Ralston, Robert H. 3,142,092.
Rideout, Owen W. 3,136,828.
Smith, Chester E., Jr. 3,141,867.
Stow, Frederic S., Jr. 3,131,028.
Thomas, Walter W. 3,163,492.
Vandenberg, Edwin J. 3,135,705.
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Wright, Charles M. 3,130,136.
Young, Richard E. 3,128,322.
Zorn, Hermann, and Franz. 3,128,307.
Herden, Robert B., to Minnesota Mining and Mfg. Co. Camera spool with core ejection fixture. 3,132,821, 5–12–64, Cl. 242—68.
Herdina, Robert, to Hamac-Hansella Aktiengesellschaft. Apparatus for converting a web into tubular form. 3,125,008, 3–17–64, Cl. 93—82.
Heredy, Leslie A.: *See*—
Neuworth, Martin B., and Heredy. 3,158,561.
Herer, Jack, 51.375% to C. F. Sargent, 40.375% to J. Herer, 5.000% to J. J. DiFiore, 1.500% to L. T. Smith, Jr., 1.250% to Battle, Neal, Harris, Minor & Williams (a partnership), and .5000% to P. M. Hammaker. Bottle holder. 3,117,759, 1–14–64, Cl. 248—102.
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Hempel, Charles H. 3,134,688.
Hereth, Ralph F., to United States of America, Navy. Mass-balanced valve apparatus. 3,120,245, 2–4–64, Cl. 137—596.17.
Hereth, Ralph F., to United States of America, Navy. Rotary drive control mechanism. 3,160,021, 12–8–64, Cl. 74—89.
Hereth, Ralph F., and G. M. Sherman, to United States of America, Navy. Closure apparatus for missile compartments and the like. 3,116,664, 1–7–64, Cl. 89—1.7.
Hereth, Ralph F., and G. M. Sherman, to United States of America, Navy. Rotary drive multiple position latch. 3,124,012, 3–10–64, Cl. 74—527.
Hereth, Ralph F., to United States of America, Navy. Electrical contactor apparatus for guided missiles. 3,141,715, 7–21–64, Cl. 339—35.
Herfurth, Charles: *See*—
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Hergenrader, Wilmer J., and G. W. Colby, to Cummins Engine Co., Inc. Apparatus for making a filter element. 3,144,-055, 8–11–64, Cl. 141—73.
Hergert, Wilhelm, to Olympia Werke AG. Perforator for record carriers. 3,133,698, 5–19–64, Cl. 234—115.
Hergert, Wilhelm, to Olympia Werke A.G. Method and arrangement for transferring information between a storage and a record carrier. 3,140,822, 7–14–64, Cl. 234—1.
Hergeth, Gerhard, to Mannesmann-Meer Aktiengesellschaft. Continuous rolling mill drive. 3,129,618, 4–21–64, Cl. 80—35.
Hergonson, Robert W., to O. M. Edwards Co., Inc. Method for vehicle washing. 3,142,590, 7–28–64, Cl. 134—7.
Herickes, Joseph A.: *See*—
Damon, Glenn H., Ribovich, and Herickes. 3,118,380.
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Brown, Norman R., Gustairs, and Herider. 3,128,217.
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Puetsch, William F., and Herington. 3,128,981.
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Herklotz, Helmut, W. Leichtle, L. Otto, W. Platz, and H. Wiegelmann, to Metallgesellschaft Aktiengesellschaft. Apparatus for changing electrostatic paint spraying liquids. 3,145,930, 8–25–64, Cl. 239—15.
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Kenny, Thomas H., Obermiller, and Herlong. 3,137,155.
Hermach, Francis L., to United States of America, Commerce. Coaxial thermal voltage converter. 3,124,747, 3–10–64, Cl. 324—95.
Herman, Aaron. Advertising adjunct for automatic record playing machines. 3,147,346, 9–1–64, Cl. 179—100.1.
Herman, Albert D.: *See*—
Leighton, Francis, and Herman. Re. 25,669.
Herman, Cyril J., and D. C. Guth, Sr. Gun for two component adhesives. 3,117,696, 1–14–64, Cl. 222—137.
Herman, Daniel F.: *See*—
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Herman, Emil A., to Western Machinery Corp. Plywood panel patching machine. 3,129,736, 4–21–64, Cl. 144—2.
Herman, Harold M. Self-cleaning eaves gutter. 3,157,002, 11–17–64, Cl. 50—5.
Herman, John J., to Rohm & Haas Co. Crease-proofed cellulosic fabrics and process for making them. 3,125,406, 3–17–64, Cl. 8—116.3.
Herman, Luther R., and H. T. Jones, to General Electric Co. Reactive transformers. 3,128,443, 4–7–64, Cl. 336—160.
Herman, Norman J.: *See*—
Roy, Carlotta L. 3,122,368.
Herman, Paul T. Proposed system for recording static and dynamic data. 3,132,915, 5–12–64, Cl. 346—1.
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Johnston, Loyal L. Re. 25,571.
Johnston, Loyal L. 3,134,147.
Herman, William P., to North American Philips Co., Inc. Molded female connector. 3,126,242, 3–24–64, Cl. 339—62.
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Hermann, Fritz. Machine for cleaning shoes. 3,155,995, 11–10–64, Cl. 15—36.
Hermann, Gerald P., to General Electric Co. High voltage circuit breaker. 3,132,222, 5–5–64, Cl. 200—116.
Hermann, Gerald P., to General Electric Co. Three position, snap action rotary switch. 3,150,243, 9–22–64, Cl. 200—63.
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Schuh, Carl F., Genning, and Hermann. 3,154,649.
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Hermann, Hans D., and E. Fischer, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Brüning. Amide stabilized formaldehyde polymers and process for preparing same. 3,131,165, 4–28–64, Cl. 260—45.9.

Hermann, Joachim, and H. Senger. Triggering device for a movable body. 3,156,185, 11–10–64, Cl. 102—1.

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Hermann, Otto, to The R. K. Le Blond Machine Tool Co. Control arrangement for a shiftable transmission. 3,159,-043, 12–1–64, Cl. 74—336.5.

Hermanni, Eugen, to Ernst Leitz Optische Werke G.m.b.H. Photographic objective. 3,152,213, 10–6–64, Cl. 88—57.

Hermanns, Erich H., E. von der Linde, and E. Weber, to Machinenfabrik Froriep G.m.b.H. Tracer for copying three-dimensional surfaces. 3,163,089, 12–29–64, Cl. 90—62.

Hermanns, Henry M., to Minneapolis-Honeywell Regulator Co. Measuring apparatus. 3,126,744, 3–31–64, Cl. 73—407.

Hermanns, Otto E., to The B. F. Goodrich Co. Metal tube sizing apparatus. 3,143,989, 8–11–64, Cl. 113—44.

Hermanns, Otto E., to The B. F. Goodrich Co. Aircraft tire venting apparatus. 3,154,985, 11–3–64, Cl. 83—2.

Hermanns, Otto E., to The B. F. Goodrich Co. Tire balancing. 3,161,063, 12–15–64, Cl. 73—483.

Hermanns, Wilhelm. Tank for powdery or granular material. 3,142,418, 7–28–64, Cl. 222—195.

Hermans, Marie E. A., and T. van der Plas, to Stichting Reactor Centrum Nederland. Process for the direct preparation of practically spherical, granular, ammonium uranyl sulfate of uniform particle size. 3,126,250, 3–24–64, Cl. 23—14.5.

Hermansdorfer, James E., to Sperry Rand Corp. Control apparatus for three-phase motors. 3,122,693, 2–25–64, Cl. 318—221.

Hermanson, William A., and E. J. Cosgrove, to Bard-Parker Co., Inc. Package and seal. 3,123,210, 3–3–64, Cl. 206—63.2.

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Hern, Howard D., to Collins Radio Co. Peak-to-R.M.S. noise expander utilizing inverse parallel connected diodes. 3,143,710, 8–4–64, Cl. 328—142.

Herndon, Lee R., Jr., to Pegasus Laboratories, Inc. Pattern tracer control servosystem. Re. 25,648, 9–29–64, Cl. 318—28.

Herndon, Luther J., Jr., and J. B. Queen, to Halliburton Co. Well tools. 3,125,382, 3–17–64, Cl. 308—4.

Herndon, Walter B., and H. E. Olsen, to General Motors Corp. Transmission. 3,141,354, 7–21–64, Cl. 74—677.

Herndon, Walter B., and A. H. Borman, Jr., to General Motors Corp. Transmission. 3,159,051, 12–1–64, Cl. 74—645.

Herndon, William B., Jr., and J. P. Laughlin, Jr., to Whirlpool Corp. Refrigeration device. 3,142,162, 7–28–64, Cl. 62—295.

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Hall, William B. and Hernqvist. 3,119,059.

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Dempster, George R., and Herpich. 3,138,275.
Dempster, George R., Herpich, and Harvey. 3,144,149.

Herpich, William A., to Hercules Galion Products, Inc. Hydraulic flow equalizer. 3,157,032. 11–17–64, Cl. 60—54.5.

Herpich, William A., and J. P. Yochem, to Hercules Galion Products, Inc. Motor vehicle with permanent and set-off bodies. 3,119,503, 1–28–64, Cl. 214—512.

Herpich, William A., and D. R. Longmire, to Dempster Bros., Inc. Vehicle body loading and unloading mechanism. 3,145,008, 8–18–64, Cl. 248—150.

Herr, Benjamin F.: *See*—
Dabroski, Winifred C., and Herr. 3,131,118.

Herr, Charles H., Jr.: *See*—
Baer, Benjamin P., and Herr. 3,130,806.

Herr, Earl B., Jr., R. L. Hamill, and J. M. McGuire, to Eli Lilly and Co. Capreomycin and its preparation. 3,143,-468, 8–4–64, Cl. 167—65.

Herr, Ferenc: *See*—
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Herr, Frederick W., to Lear Siegler, Inc. Axial-radial bearing for gyroscope trunnions. 3,126,231, 3–24–64, Cl. 308—35.

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Trick, Kuno, Schulte, Herr, and Wolber. 3,122,879.

Herr, Fritz, and G. Glaser. Electrodynamic rate regulator arrangement for clocks. 3,156,857, 11–10–64, Cl. 318—132.

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Herr, Milton E., to The Upjohn Co. 1-dehydro-11-keto-9α-fluoro-17α-methyl testosterones. 3,160,644, 12–8–64, Cl. 260—397.45.

Herr, Richard F., and G. R. Goldner, to Rio Algom Mines Ltd. Web guiding. 3,145,891, 8–25–64, Cl. 226—21.

Herr, Robert W.: *See*—
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Herr, Robert W., and A. C. Keck, to Bowmar Instrument Corp. Positioning device for a rotatable member. 3,117,-771, 1–14–64, Cl. 267—1.

Herr, Ross R.: *See*—
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Herrett, Steven J. Hand gun stock. 3,128,571, 4–14–64, Cl. 42—71.

Herrick, Carlyle S., to General Electric Co. Process and product of copper coating. 3,148,083, 9–8–64, Cl. 117—201.

Herrick, Carlyle S., to General Electric Co. Coated polycarbonate resin recording sheet. 3,154,432, 10–27–64, Cl. 117—211.

Herrick, Clifford E., Jr., and J. W. Weigl, to General Aniline & Film Corp. Apparatus for reflex copying by the use of fiber optical devices. 3,125,013, 3–17–64, Cl. 95—75.

Herrick, Clifford E., Jr., and P. Chebiniak, to General Aniline & Film Corp. Process for producing negative working offset diazo printing plates. 3,130,051, 4–21–64, Cl. 96—49.

Herrick, Clifford E., Jr., and P. T. Woitach, Jr., to General Aniline & Film Corp. Diazo and resinous coupler printing plates for photomechanical reproduction. 3,149,972, 9–22–64, Cl. 96—75.

Herrick, Elbert C., to Sun Oil Co. Preparation of dyeable polymers. 3,143,534, 8–4–64, Cl. 260—79.3.

Herrick, Norman A., to Assembly Products, Inc. Electrical flaw detector apparatus having null plane positioned as well as electrically balanced coil arrangements. 3,156,862, 11–10–64, Cl. 324—34.

Herridge, William G., Jr., and R. G. Taylor, to General Motors Corp. Vehicle light control. 3,125,702, 3–17–64, Cl. 315—77.

Herring, Carl E.: *See*—
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Herring, David L., to United States of America, Navy. Preparation of aryl azides and aryl diazides by the reaction of diazoniumfloroborate salts with alkali azides. 3,123,-621, 3–3–64, Cl. 260—349.

Herring, Harold W.: *See*—
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Herring, Jerome L., W. T. Grant, and B. R. Pistner, to American Truck Body Co. Loader. 3,140,770, 7–14–64, Cl. 198—7.

Herring, Liles G., to Phillips Petroleum Co. Rocket motor and solid propellant charge. 3,157,025, 11–17–64, Cl. 60—35.6.

Herring, Robert H., and L. L. Neubauer, to Rockwell Mfg. Co. Rotary plug valve and operator therefor. 3,147,766, 9–8–64, Cl. 137—556.3.

Herringshaw, Tobias J.: *See*—
De Remer, James E., Herringshaw, and Parent. 3,124,-246.

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Herriott, Donald R., to Bell Telephone Laboratories, Inc. Aircraft radar system with feedback of range signal to antenna elevation control and display of equirange contours. 3,127,604, 3–31–64, Cl. 343—7.4.

Herriott, Donald R., to Bell Telephone Laboratories, Inc. Polychromatic interferometry. 3,145,252, 8–18–64, Cl. 88—14.

Herrmann, Adolf L., R. E. Beyer, and H. K. Naumann, to United States of America, Army. Gaseous bearing. 3,137,-531, 6–16–64, Cl. 308—9.

Herrmann, Gunther: *See*—
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Herrmann, Helmut, to Gewerkschaft Eisenhutte Westfalia. Impact planer device for extraction of mineral material. 3,151,912, 10–6–64, Cl. 299—34.

Herrmann, Henry J.: *See*—
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Herrmann, John A., to I-T-E Circuit Breaker Co. Bus bar adapter for circuit breakers. 3,120,627, 2–4–64, Cl. 317—99.

Herrmann, John F., to Graflex, Inc. Film advancing mechanism for photographic projectors. 3,145,892, 8–25–64, Cl. 226—76.

Herrmann, Karl-Heinz, W. Loebe, and F. Wilke, to Siemens & Halske Aktiengesellschaft. Heatable specimen carrier for electron radiation apparatus. 3,151,241, 9–29–64, Cl. 250—49.5.

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Herrmann, Thomas R.: *See*—
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Herrmann, Thomas R., H. H. Shaw, and D. N. McCartney, to Cochran Equipment Co. Hydraulic motor. 3,154,165, 10–27–64, Cl. 180—66.
Herrmann, Werner E., to Lockheed Aircraft Corp. Missile propulsion. 3,124,072, 3–10–64, Cl. 102—51.
Herrmann, Werner E., to Lockheed Aircraft Corp. 3,135,202, 6–2–64, Cl. 102—50.
Herrmann, Werner E., to Lockheed Aircraft Corp. Control system for annular wing aircraft. 3,135,484, 6–2–64, Cl. 244—76.
Herrmann, William L. Piano hammer sander. 3,126,677, 3–31–64, Cl. 51—185.
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Herron, Robert H., and N. E. Jannasch, to The Bendix Corp. Method for attaching a composition metal-ceramic material to a backing member. 3,139,671, 7–7–64, Cl. 29—182.3.
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Kern, Donald Q., and Herham. 3,131,758.
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Herschkowitz, Otto, H. L. Woodward, and J. G. Vanns. Automatic control and alterting system (Conelrad). 3,153,-197, 10–13–64, Cl. 325—364.
Herschler, Robert J., to Crown Zellerbach Corp. Method for controlling plant growth. 3,148,049, 9–8–64, Cl. 71—2.7.
Herschler, Robert J., R. G. Jaffe, and J. W. Kay, to The Harshaw Chemical Co. and Crown Zellerbach Corp. Process for coloring inorganic cementitious materials. 3,117,-882, 1–14–64, Cl. 106—90.
Herschler, Robert J., and R. G. Jaffe, to Crown Zellerbach Corp. Process for coloring synthetic polymeric materials. 3,120,423, 2–4–64, Cl. 8—55.
Herschler, Robert J., and R. G. Jaffe, to Crown Zellerbach Corp. Process of coloring cellulosic fibers. 3,128,222, Cl. 4–7–64, Cl. 162—162.
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Hershberger, Olin C., and D. B. Morin. Wax applicator. 3,127,631, 4–7–64, Cl. 15—588.
Hershberger, Olin C., D. B. Morin, and R. E. Langlois, to O. D. Bending and Equipment Corp. Chair seat construction. 3,139,308, 6–30–64, Cl. 297—461.
Hershberger, Olin C., and D. B. Morin. Wax applicator. 3,148,403, 9–15–64, Cl. 15—588.
Hershey, Gordon F., G. S. Foerster, and S. L. Couling, to The Dow Chemical Co. Magnesium-base alloy. 3,131,095, 4–28–64, Cl. 148—32.
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Mihalek, Emery. 3,163,325.
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Hershey, Richard D., to Philco Corp. Method and apparatus for testing printed wiring panels utilizing an overlay sheet having test apertures and pictorial test information. 3,137,815, 6–16–64, Cl. 324—158.
Hershinger, Lincoln W., to Philco Corp. Process for making phosphor layers. 3,127,282, 3–31–64, Cl. 117—33.5.
Hershman, Gordon L.: *See*—
Doering, Charles W., and Hershman. 3,132,556.
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Dameral, Ray C. 3,158,327.
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Hertel, Hasso, and R. Mohr, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Aminoazo compounds of the benzimidazole series. 3,132,131, 5–5–64, Cl. 260—157.
Hertel, Hasso, and R. Mohr, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Solid, stable diazonium compounds. 3,133,049, 5–12–64, Cl. 260—142.
Hertel, Karl. Tool holder. 3,137,059, 6–16–64, Cl. 29—96.
Hertel, Karl. Cutting tool for lathes and similar machines. 3,142,110, 7–28–64, Cl. 29—96.
Herter, George L. Injection molding of plastic ammunition case. 3,159,701, 12–1–64, Cl. 264—328.
Herter, Raymond F., and H. T. Sher, to United Telecontrol Electronics, Inc. Card issuing machine. 3,133,784, 5–19–64, Cl. 346—40.
Herterich, Walter. Magnetic recorder. 3,133,710, 5–19–64, Cl. 242—55.12.
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Rice, Leonard M., Freed, and Hertz. 3,144,461.
Hertz, Martin R., to United States of America, Atomic Energy Commission. Polonium compound heat sources. 3,154,501, 10–27–64, Cl. 252—301.1.
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Hertzberg, Lawrence E. 3,161,423.
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Hertzel, Richard R. and C. H. Dust collector receptacle. 3,145,408, 8–25–64, Cl. 15—257.
Hertzog, Arthur D. Lunch kit. 3,127,984, 4–7–64, Cl. 206—4.
Herubel, Jean F., to N. Schlumberger & Cie. Composite faller bar. 3,156,951, 11–17–64, Cl. 19—129.
Herunter, Schuhfabrik Koflach F. Ohg.: *See*—
Gärtner, Kurt. 3,125,816.
Hervé, Marcel. Bidirectional transducers. 3,127,481, 3–31–64, Cl. 179—100.41.
Hervert, George L., and C. B. Linn, to Universal Oil Products Co. Alkylation of aromatic compounds. 3,131,230, 4–28–64, Cl. 260—671.
Hervert, George L., and C. B. Linn, to Universal Oil Products Co. Process for removal of impurities from boron halides. 3,143,402, 8–4–64, Cl. 55—71.
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Herz, Arthur H., to Eastman Kodak Co. Synergistic sensitization of photographic silver halide emulsions. 3,144,-336, 8–11–64, Cl. 96—108.
Herz, Arthur H., and N. W. Kalenda, to Eastman Kodak Co. Photographic silver halide emulsions containing thioether derivatives as antifoggants and stabilizers. 3,140,178, 7–7–64, Cl. 96—61.
Herz, Friedrich H. G. R. Distance measuring system. 3,145,-381, 8–18–64, Cl. 343—14.
Herzegh, Frank, to The B. F. Goodrich Co. Pneumatic tire and method of making the same. 3,142,327, 7–28–64, Cl. 152—362.
Herzegh, Frank, and J. W. Pond, to The B. F. Goodrich Co. Inflatable emergency tire. 3,116,778, 1–7–64, Cl. 152—330.
Herzenberg, Jean, G. Cevidalli, and A. Nenz, to Sicedison S.p.A. Process for the production of alkenyl-pyridines and catalyst therefor. 3,119,828, 1–28–64, Cl. 260—290.
Herzfeld, Richard P., and G. L. Davidson; said Davidson assor. to said Herzfeld. Outdoor theater sound system comprising a plurality of transmitters coupled to a single distribution wire. 3,131,351, 4–28–64, Cl. 325—54.
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Herzog, George E., to Westinghouse Electric Corp. Resilient mounting for dynamoelectric machines. 3,160,377, 12–8–64, Cl. 248—26.
Herzog, Gerald B., to Radio Corp. of America. Frequency controlled oscillator. 3,135,920, 6–2–64, Cl. 325—420.
Herzog, Gerald B., to Radio Corp. of America. Resonator with intermediate diode oscillator or amplifier. 3,162,824, 12–22–64, Cl. 331—107.

Herzog, Gerald B., and M. C. Steele, to Radio Corp. of America. Electrical circuits employing impact ionization devices. 3,118,071, 1–14–64, Cl. 307—88.5.

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Clements, Roy J., Herzog, and McEvers. 3,163,816.

Herzog, Gustav, to A. Lins. Electrically actuated valve. 3,140,852, 7–14–64, Cl. 251—11.

Herzog, Hans, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Polymerization of hydrocyanic acid. 3,160,594, 12–8–64, Cl. 260—1.

Herzog, Hans, and G. Kabisch, to FMC Corp. Process for regenerating a hydrogenation catalyst. 3,135,699, 6–2–64, Cl. 252—412.

Herzog, Hans K., to Boeing Airplane Co. Three dimensional function generator. 3,158,739, 11–24–64, Cl. 235—197.

Herzog, Josef, to General Electric Co. Low pressure turbine exhaust hood. 3,149,470, 9–22–64, Cl. 60—64.

Herzog, Josef, and J. M. Kovacik, to General Electric Co. Exhaust scroll for turbomachine. 3,120,374, 2–4–64, Cl. 253—39.

Heschl, Charles M. Diaper folding appliance. 3,131,837, 5–5–64, Cl. 223—37.

Heseltine, Donald W., to Eastman Kodak Co. Sulfonated cyanine and merocyanine dyes. 3,148,187, 9–8–64, Cl. 260—240.4.

Heseltine, Donald W., and L. L. Lincoln, to Eastman Kodak Co. Photographic silver halide emulsions containing cationic merocyanine dyes. 3,125,448, 3–17–64, Cl. 96—105.

Heseltine, Donald W., and L. G. S. Brooker, to Eastman Kodak Co. Non-ionized polymethine sensitizing dyes. 3,140,182, 7–7–64, Cl. 96—106.

Heseltine, Donald W., and L. G. S. Brooker, to Eastman Kodak Co. Desensitizing dyes and photographic processes and materials. 3,140,951, 7–14–64, Cl. 96—101.

Heskett, Don E. Pressure responsive device for controlling liquid level in tanks. 3,130,154, 4–21–64, Cl. 210—104.

Heskett, Don E. Automatic flow control for automatic water softening system. 3,130,155, 4–21–64, Cl. 210—134.

Hesler, Joseph P., and W. Peil, to General Electric Co. Time compression storage circuit. 3,144,638, 8–11–64, Cl. 340—173.

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Heslop, Robert N., and W. E. Stephen, to Imperial Chemical Industries Ltd. Dihalo-triazinylamino-azo and anthraquinone dyestuff compositions stabilized with mixtures of alkali phosphates. 3,125,564, 3–17–64, Cl. 260—153.

Hespel, Claude, and J. Olivier, to Commissariat a l'Energie Atomique. Mounting device for fuel element assemblies in a nuclear reactor. 3,134,722, 5–26–64, Cl. 176—40.

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Hess, Finley B., and G. B. Erskine, to Brockway Glass Co. Glass cutting machine. 3,156,390, 11–10–64, Cl. 225—2.

Hess, Francis A.: *See*—
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Hess, Frank F., F. A. and J. J. Drafting apparatus for producing three-plane drawings. 3,128,556, 4–14–64, Cl. 33—77.

Hess, Frederic O., to Selas Corp. of America. Shaft furnace. 3,142,481, 7–28–64, Cl. 263—36.

Hess, Hans, to Olympia Werke AG. Decoding system. 3,153,700, 10–20–64, Cl. 178—33.

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Heisler, Robert Y., Hess, and Eckert. 3,133,127.
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Hess, John J.: *See*—
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Hess, John M., to The Delbar Co., Inc. Gate latch. 3,148,904, 9–15–64, Cl. 292—66.

Hess, Joseph W.: *See*—
Korn, Arthur, Hess, and Ruskin. 3,126,541.

Hess, Kenneth G., to Polar Ware Co. Polishing apparatus. 3,149,441, 9–22–64, Cl. 51—147.

Hess, Lawrence G., and E. A. Mailey, to Union Carbide Corp. Process for the preparation of bis-hydrocarbon compounds of chromium. 3,129,237, 4–14–64, Cl. 260—438.

Hess, Lloyd D., Jr., and W. C. Mast, to The Goodyear Tire & Rubber Co. Graft copolymer of styrene- acrylonitrile on butadiene-styrene-acrylonitrile copolymer. 3,118,854, 1–21–64, Cl. 260—45.5.

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Hess, Loyal H., and L. Hornbostel, to Beloit Iron Works. Helical pulp grinder. 3,143,305, 8–4–64, Cl. 241—279.

Hess, Martin, and G. E. Jones, Jr., to Koppers Co., Inc. Process and apparatus for separating water from an aqueous system. 3,119,772, 1–28–64, Cl. 210—60.

Hess, Morris M.: *See*—
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Hess, Philip N., to General Electric Co. Power divider utilizing inductive coupling in a cavity resonator excited in the TM_{010} mode. 3,156,879, 11–10–64, Cl. 333—6.

Hess, Richard, to Firma Chemische Fabrik Stockhausen & Cie. Process for disinfecting dry cleaning in conventional solvents. 3,163,493, 12–29–64, Cl. 8—142.

Hess, Richard A., ½% to Air Products and Chemicals, Inc., and ½% to Northern Natural Gas Co. Fuel cell. 3,160,527, 12–8–64, Cl. 136—86.

Hess, Robert L.: *See*—
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Hess, Walter, to Continuous Metalcast Co., Inc. Means for straightening continuously accruing rod material. 3,147,793, 9–8–64, Cl. 153—54.

Hess, Walter, to Concast A.G. Means for moving the chill-mould in continuous casting plant. 3,148,420, 9–15–64, Cl. 22—57.2.

Hess, Walter, to Concast AG. Continuous casting plant with deflection of the casting. 3,157,920, 11–24–64, Cl. 22—57.2.

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Hesse, Myron C. Breaker and shredding cylinder for ear corn. 3,151,645, 10–6–64, Cl. 146—71.

Hesse, Walter K., to Johns-Manville Corp. Continuous feed cupola. 3,159,290, 12–1–64, Cl. 214—18.2.

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Duggins, William E., Hessel, and Werner. 3,123,462.
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Salteri, Renato, and Hesselbarth. 3,161,010.

Hesselberg, Howard E., to Ethyl Corp. Diesel engine operation. 3,144,857, 8–18–64, Cl. 123—27.

Hesselgren, Tore. Signalling system. 3,128,350, 4–7–64, Cl. 179—90.

Hesselink, Jan: *See*—
Oosterkamp, Wijbe J., and Hesselink. 3,152,255.

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Hessinger, Philip S., and G. W. Hoekstra, to National Beryllia Corp. Process for producing a ceramic-embedded wire structure. 3,117,174, 1–7–64, Cl. 264—263.

Hesslein, Milton B., to Arvey Corp. Wire handle for a molded container. 3,128,905, 4–14–64, Cl. 220—95.

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Hester, Robert W. Lawn mower with tiltable top. 3,123,962, 3–10–64, Cl. 56—25.4.

Hester, Waitus C., Jr. ½ to L. C. Turner, Jr. Compositor's gauge. 3,145,476, 8–25–64, Cl. 33—76.

Heston, Eugene E., to NRM Corp. Extruder. 3,158,900, 12–1–64, Cl. 18—12.

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Hetherington, James S., to Alloyd Electronics Corp. Electron beam devices and processes. 3,118,050, 1–14–64, Cl. 219—117.

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Hettler, Frank G., Jr.: *See*—
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Hettler, Peter, to Siemens-Schuckertwerke Aktiengesellschaft. Sectional motor drive control. 3,118,097, 1–14–64, Cl. 318—70.

Hetzel, Max, to Bulova Watch Co., Inc. Electromagnetic vibrating drive. 3,149,274, 9–15–64, Cl. 318—128.

Hetzel, Peter J. G., to Associated Electrical Industries Ltd. Bistable multivibrator controlled oscillating D.-C. motor. 3,140,434, 7–7–64, Cl. 318—129.

Hetzel, Stanford J., to Sun Oil Co. Preparation of esters of aromatic dicarboxylic acids. 3,120,559, 2–4–64, Cl. 260—475.

Heuberger, Hans, and H. Rafael, to J. R. Geigy, A.-G. Process for the dyeing and printing of cellulose fibres. 3,143,390, 8–4–64, Cl. 8—54.2.

Heuer, Charles H., to Zenith Radio Corp. Color television. 3,128,334, 4–7–64, Cl. 178—5.4.

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Heuer, Russell P., to General Refractories Co. Encased plural basic refractor brick elements. 3,123,940, 3–10–64, Cl. 50—416.
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Heumann, Walter E., to Esso Research and Engineering Co. Apparatus for molding thermoplastic materials. 3,130,-452, 4–28–64, Cl. 18—30.
Heupel, Friedrich, and S. Kotoll, to Aktiengesellschaft Brown, Boveri & Cie. Electrical switchgear with electro-dynamic strengthening of the contact-pressure. 3,154,662, 10–27–64, Cl. 200—170.
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Heusser, Jean, to Hommel, S.A. N-hydroxymethylamino compounds. 3,122,550, 2–25–64, Cl. 260—268.
Heuvel, Johan G. F. Attachment to improve parallel skiing. 3,148,891, 9–15–64, Cl. 280—11.37.
Heuze, Bernard M. L., to Societe a responsabilite limitee dite: Societe d'Etudes Contre la Corrosion (S.E.C.C.D.). Flexible anode device for use in the cathodic protection of metal structures. 3,134,731, 5–26–64, Cl. 204—196.
Hewett, John B., and E. A. Windham. Air conditioning systems. Re. 25,550, 4–7–64, Cl. 62—176.
Hewett, Major W., to General Electric Co. Control circuit producing output signal so long as input pulses occur within certain time interval. 3,139,539, 6–30–64, Cl. 307—88 5.
Hewett, William A., and A. De Benedictis, to Shell Oil Co. High molecular weight hydrocarbon polymers. 3,151,181, 9–29–64. Cl. 260—683.15.
Hewett, William A., and G. M. Calhoun, to Shell Oil Co. Functional fluids containing thiocarboxylate esters. 3,156,-649, 11–10–64, Cl. 252—48.6.
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Hewitt, Alan R., and R. A. Davis, to International Computers and Tabulators Ltd. Web feeding control means in business machines. 3,123,195, 3–3–64, Cl. 197—133.
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Alexander, Roy P., and Heying. 3,158,656.
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Heying, Theodore L., to Olin Mathieson Chemical Corp. Carborane diols and preparation thereof. 3,121,119, 2–11–64, Cl. 260—606.5.
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Heyn, William O., C. E. Brady, and J. A. Drude, to Chrysler Corp. Lubrication warning signal. 3,127,586, 3–31–64, Cl. 340—60.
Heyna, Johannes, and W. Noll, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Brüning. Copper complexes of azo-dyestuffs. 3,135,730, 6–2–64, Cl. 260—147.
Heyne, Clarence A., to Owens-Illinois Glass Co. Partition strip arrester apparatus. 3,133,648, 5–19–64, Cl. 214—1.
Heynen, Wilhelm, and W. Martin, to Vereinigte Glanzstoff-Fabriken AG. Apparatus for the spinning of hollow filaments. 3,121,254, 2–18–64, Cl. 18—8.
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Hicke, Carroll S., to Brunswick Corp. Convertible desk chair. 3,140,894, 7–14–64, Cl. 297—162.
Hickerson, Frederick R., to United States of America, Navy. Variable thrust rocket engine. 3,150,485, 9–29–64, Cl. 60—35.6.
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Hickin, Robert J., and D. C. McCullough, to Packaging Corp. of America. Sealed carton. 3,140,809, 7–14–64, Cl. 229—37.
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Hickman, Albert F. Tandem axle spring suspension. 3,129,953, 4–21–64, Cl. 280—104.5.
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Girouard, Philias H., Hickman, Kane, Nelson, Neuman, Randolph, and Collier. 3,146,672.
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Hicks, John W., Jr., E. Snitzer, and H. Osterberg, to American Optical Co. Optical energy transmitting devices and method of making same. 3,157,726, 11–17–64, Cl. 88—1.
Hicks, Mervyn A., and W. Mann, to Canadian Safety Fuse Co. Ltd. Explosive connecting cord. 3,125,024, 3–17–64, Cl. 102—27.
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Higashiuchi, Kazuo, to J. R. Short Milling Co. Methods for producing yeast-leavened baked goods. 3,135,611, 6–2–64, Cl. 99—90.
Higashiuchi, Kazuo, to J. R. Short Milling Co. Method for oxidatively treating flour. 3,135,615, 6–2–64, Cl. 99—232.
Higashiuchi, Kazuo, and E. J. Schwoegler, to J. R. Short Milling Co. Methods for producing peroxidic materials. 3,160,667, 12–8–64, Cl. 260—610.
Higbee, Wallace C., to Holley Carburetor Co. Spring calibrating means. 3,145,983, 8–25–64, Cl. 267—1.
Higdon, Buster W., to Celanese Corp. of America. Unsaturated ester purification. 3,124,609, 3–10–64, Cl. 260—486.
Higginbotham, John W., to Martin-Marietta Corp. Thermal modulation for transistor drift correction. 3,155,915, 11–3–64, Cl. 330—10.
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Higgins, Eldon C., and D. H. Crew, to Lefebure Corp. Deal drawer. 3,145,918, 8–25–64, Cl. 232—43.1.
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Higgins, William J. Transfer containers. 3,128,811, 4–14–64, Cl. 150—.5.
Higginson, Norman. Wall paper pasting and paper hanging apparatus. 3,132,048, 5–5–64, Cl. 118—119.
Higgs, Cyril E., to Lever Bros. Co. Method of and apparatus for dispensing liquids. 3,146,917, 9–1–64, Cl. 222—189.
Higgs, Ernest R., and G. E. Lyons, to Saco-Lowell Shops. Spindle brake. 3,118,271, 1–21–64, Cl. 57—88.
Higgs, Joseph B., R. W. Carpenter, and H. G. van der Eb, to Container Corp. of America. Can carrier with chime engaging tabs. 3,157,347, 11–17–64, Cl. 229—40.
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Bertolini, William A. 3,163,442.
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Higley, John W., and W. R. Brophy, to Weston Instruments, Inc. Suspension system for movable elements of electrical indicating instruments. 3,158,809, 11–24–64, Cl. 324—154.
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Hignett, Travis P., A. V. Slack, J. M. Potts, and L. D. Hand, Jr., to Tennessee Valley Authority. Direct method for the production of high-analysis phosphoric acid. 3,161,467, 12–15–64, Cl. 23—165.
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Higuchi, Kozo, T. Osa, and T. Takeuchi, to Hokkaido Tanko Kisen Kabushiki Kaisha. Process for the extractive separation selectively of aromatic hydrocarbons from hydrocarbons containing both aromatic and non-aromatic hydrocarbons. 3,125,512, 3–17–64, Cl. 208—323.
Higuchi, Kozo, and M. Tsuyuguchi, to Hokkaido Tanko Kisen Kabushiki Kaisha. Method for continuously producing nitrohumic acids. 3,153,666, 10–20–64, Cl. 260—515.
Higuchi, Takashi, to Nippon Kogaku K.K. Zoom lens. 3,134,590, 8–4–64, Cl. 88—57.
Hijiya, Kenji, Y. Nakano, and I. Kaino, to Nihon Spindle Mfg., Ltd., Co., and Nitto Boseki Co., Ltd. Automatic raw material feed for carding machines. 3,145,426, 8–25–64, Cl. 19—105.
Hijiya, Kenji, Y. Nakano, and I. Kaino, to Nihon Spindle Mfg. Co. Ltd., and Nitto Boseki Co., Ltd. Fibrous raw material feeding arrangements for spinning machines. 3,157,440, 11–17–64, Cl. 302—28.
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Hilbert, Richard G., to Leesona Corp. High speed false twist spindle drive. 3,134,218, 5–26–64, Cl. 57—104.
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Hildebrand, Robert P., F. V. Harold, B. J. Clarke, and P. J. Murray, to Carlton and United Breweries Ltd. Process for the production of a hop concentrate. 3,155,522, 11–3–64, Cl. 99—50.5.

Hildebrand, Walter, to Rheinmetall G.m.b.H., Firma. Ball-and-socket joint type mounting for automatic firearms. 3,159,079, 12–1–64, Cl. 89—37.
Hildebrandt, Eugene E., to Ford Motor Co. Suspension system. 3,123,348, 3–3–64, Cl. 267—16.
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Hilfer, Harry, to Witco Chemical Co., Inc. Hair rinse compositions of polyoxypropylene quaternary ammonium compounds. 3,155,591, 11–3–64, Cl. 167—87.
Hilfiker, Hans, to "Therma" A.G. Set of heat accumulating food warming plates and heating means therefor. 3,126,-882, 3–31–64, Cl. 126—246.
Hilfiker, Hans, to "Therma" A.G. Adjustable door hinge. 3,134,133, 5–26–64, Cl. 16—129.
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Hilgers, Clair E. Open warmer. 3,120,599, 2–4–64, Cl. 219—34.
Hilgers, Karl, to Losenhausenwerk, Dusseldorfer Maschinenbau AG. Balancing machine. 3,159,034, 12–1–64, Cl. 73—462.
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Hilgert, Adolph J., to Johnson Service Co. Electric-pressure transducers. 3,155,104, 11–3–64, Cl. 137—85.
Hilgert, Adolph J., to Johnson Service Co. Pressure-electric transducers. 3,155,896, 11–3–64, Cl. 323—95.
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Hill, Boyd N., and D. G. Walker, to Esso Research and Engineering Co. Isomerization process. 3,143,579, 8–4–64, Cl. 260—683.76.
Hill, Carl J. Poultry gizzard peeling rolls. 3,119,144, 1–28–64, Cl. 17—11.
Hill, Carl J. Poultry gizzard processing method. 3,159,-872, 12–8–64, Cl. 17—45.
Hill, Charles A. S. Heating elements for vacuum furnaces. 3,155,758, 11–3–64, Cl. 13—25.
Hill, Charles C. Gas turbine power plant. 3,118,278, 1–21–64, Cl. 60—39.36.
Hill, Charles R.: *See*—
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Hill, Clifford W., to Union Carbide Corp. Gas shielded arc torch. 3.158.730, 11–24–64, Cl. 219—75.
Hill, Dale E., to Monsanto Co. Junction rectifier of boron phosphide having boron-to-phosphorus atomic ratio of 6 to 100. 3,147,412, 9–1–64, Cl. 317—237.
Hill, Dale E., to Monsanto Co. Point contact rectifier of boron phosphide having boron-to-phosphorus atomic ratio of 6 to 100. 3,147,413, 9–1–64, Cl. 317—237.
Hill, Dale E., and A. Epstein, to Monsanto Co. Thermoelectricity. 3,138,486, 6–23–64, Cl. 136—5.
Hill, David H., to General Motors Corp. Electrical stock removal apparatus. 3,144,541, 8–11–64, Cl. 219—69.
Hill, Donald E., to Emerson Electric Co. Apparatus and method for winding and inserting coils. 3,151,638, 10–6–64, Cl. 140—92.1.
Hill, Earl W., and W. W. Beck, to Unipoint Industries Inc. Braided article and method of making same. 3,129,631, 4–21–64, Cl. 87—6.
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Hill, Edward J., ½ to E. Doris Ansteth. Adult urine specimen collector. 3,131,403, 5–5–64, Cl. 4—110.
Hill, Francis A. Gears with rigid molded surfaces. 3,121,-341, 2–18–64, Cl. 74—462.
Hill, Francis A. Fluid compressors particularly for refrigerating systems. 3,126,833, 3–31–64, Cl. 103—126.
Hill, Fred N., to Union Carbide Corp. Polymerization of epoxides. 3,127,358, 3–31–64, Cl. 260—2.
Hill, Fred N., and J. T. Fitzpatrick, to Union Carbide Corp. Polymerization of epoxides. 3,144,418, 8–11–64, Cl. 260—2.
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Hill, Henry A., to National Polychemicals, Inc. Foamable composition comprising a thermoplastic polymer and barium azocarbonate and method of foaming. 3,141,002, 7–14–64, Cl. 260—2.5.
Hill, Henry A. Toilet bowl ventilator. 3,153,794, 10–27–64, Cl. 4—213.
Hill, Henry A., and W. P. ter Horst, to National Polychemicals, Inc. N-alkyl-N-nitroso alkyl sulfonamides. 3,125,-602, 3–17–64, Cl. 260—556.
Hill, Howard H., to Computer Control Co., Inc. Universal logical element. 3,145,342, 8–18–64, Cl. 328—92.
Hill, Howard M. Dispensing container and closure therefor. 3,127,085, 3–31–64, Cl. 229—17.
Hill, Howard M. Dispensing container and one piece blank. 3,128,032, 4–7–64, Cl. 229—17.
Hill, Jack R., to Treesdale Laboratories, Inc. Exothermic side board for ingot molds. 3,148,421, 9–15–64, Cl. 22—147.
Hill, James D., to Control Data Corp. Analog storage circuit. 3,142,824, 7–28–64, Cl. 340—173.
Hill, James E., and R. R. Chamberlin, to The National Cash Register Co. Process for making conductive film. 3,148,084, 9–8–64, Cl. 117—211.
Hill, James H., to Johnson-Carper Furniture Co., Inc. Case piece. 3,129,987, 4–21–64, Cl. 312—204.
Hill, James J., and M. M. Kaufman, to Radio Corp. of America. Tunnel diode amplifier employing alternating current bias. 3,143,662, 8–4–64, Cl. 307—88.5.
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Hill, John, to Clevite Corp. Loading mechanism. 3,152,-428, 10–13–64, Cl. 53—59.
Hill, John H., to Wildman Jacquard Co. Pile fabric knitting mechanism. 3,153,335, 10–20–64, Cl. 66—9.
Hill, John H., and S. W. Pond, to Continental Aviation and Engineering Corp. Fuel injection device. 3,147,594, 9–8–64, Cl. 60—39.74.
Hill, John R., and J. A. Sawester, to The Babcock & Wilcox Co. Method of and apparatus for cold drawing metal tubes. 3,131,803, 5–5–64, Cl. 205—7.
Hill, John S., II: *See*—
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Hill, Joseph M. Stock severing apparatus. 3,121,360, 2–18–64, Cl. 83—292.
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Hill, Marvin W. Proving ring. 3,132,511, 5–12–64, Cl. 73—141.
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Versteeg, Joseph, Hill, Nostrand, and Finn. 3,152,989.
Hill, Milton M., and D. F. Martin, to United States of America, Atomic Energy Commission. Apparatus for heating ions in a plasma. 3,156,622, 11–10–64, Cl. 176—7.
Hill, Penny. Float for babies or young children. 3,161,897, 12–22–64, Cl. 9—347.
Hill, Randolph F., and J. G. Burns, to International Resistance Co. Rotary snap switch. 3,141,076, 7–14–64, Cl. 200—74.
Hill, Richard J., to J. F. McElwain Co., Inc. Interlocked seam for shoe uppers. 3,121,288, 2–18–64, Cl. 36—45.
Hill, Richard L., to The Dow Chemical Co. Method of impregnating film materials with ammonium bromide. 3,132,-045, 5–5–64, Cl. 117—138.
Hill, Robert E. Retractable cutoff gauge. 3,136,071, 6–9–64, Cl. 33—180.
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Hill, Robert L. Electrical system for looms or the like. 3,153,117, 10–13–64, Cl. 174—40.
Hill, Ronald A., and A. W. Stirling, to International Standard Electric Corp. Electrical circuit elements. 3,160,944, 12–15–64, Cl. 29—25.42.
Hill, Russell P., and W. J. Tabar, to Union Carbide Corp. Process for inhibiting gel formation in polyethylene by use of A-stage paratertiaryalkylphenolformaldehyde resins. 3,157,628, 11–17–64, Cl. 260—94.9.
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Hill, Thomas G. Water ski towing device. 3,142,075, 7–28–64, Cl. 9—310.
Hill, Thomas G., to Lundy Electronics and Systems, Inc. Feel trim unit. 3,144,222, 8–11–64, Cl. 244—83.

Hill, Van B., ¼ to J. Parsons, and ¼ to L. S. Van Landingham, Jr. Seating device and supporting structure therefor. 3,160,437, 12–8–64, Cl. 297—143.
Hill, Walter, and H. Woodward, to Associated Electrical Industries Ltd. Terminal boxes for electrical apparatus with explosion protective lining. 3,153,695, 10–20–64, Cl. 174—52.
Hill, Walter P., to Baldwin-Lima-Hamilton Corp. Numerically controlled tube bending machine. 3,145,756, 8–25–64, Cl. 153—20.
Hill, Wayland W. Trailer hitch. 3,126,210, 3–24–64, Cl. 280—478.
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Hill, William J., to Morgan Construction Co. Method of and means for counting, sorting and bundling of bars, pipes and the like. 3,135,076, 6–2–64, Cl. 53—26.
Hill, William J., and N. D. Fay, to Morgan Construction Co. Split-level directing guide for rolling mill gathering tables. 3,121,484, 2–18–64, Cl. 193—39.
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Hillberg, Bror, deceased, by E. Hillberg and J. E. Alvis, executrices, and Continental Illinois National Bank and Trust Co. of Chicago, executor, to Superior Concrete Accessories, Inc. Method of forming a sectional, stamped metal hold-down anchor device for the cables of prestressed concrete girders. 3,137,921, 6–23–64, Cl. 29—150.
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Hillgren, Carl A., deceased, C. C. Hillgren, executor, to Parkway Magnetics. Door lock. 3,143,873, 8–11–64, Cl. 70—147.
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Hillgren, Carl A. 3,143,873.
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Hilliard, Robert C., to United States of America, Navy. Phase measuring circuit for measuring the phase between an F.M. signal and an F.M. reference signal including a cathode ray tube indicator. 3,141,130, 7–14–64, Cl. 324—88.
Hilliard, Thomas J., Jr. Mold making process and apparatus. 3,147,519, 9–8–64, Cl. 22—20.
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Hills, Henry C., to Nashua Corp. Heat development of diazo recording and copying papers which comprise a quaternary ammonium halide. 3,135,607, 6–2–64, Cl. 96—49.
Hills, Henry C., and J. F. Rice, to Nashua Corp. Translucent electrosensitive recording sheet. 3,122,448, 2–25–64, Cl. 117—211.
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Hills, William H., to Monsanto Chemical Co. Crimping apparatus. 3,120,048, 2–4–64, Cl. 28—1.
Hills, William H., and D. E. Fisher, to Monsanto Chemical Co. Yarn crimping apparatus. 3,116,531, 1–7–64, Cl. 28—1.
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Himmelmann, Wolfgang, H. Mader, and R. F. Posse, to Agfa Aktiengesellschaft. Process of producing photographic silver halide emulsions utilizing sulfonated polyphenylene oxide. 3,137,756, 6–16–64, Cl. 96—94.
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Hindenburg, Eugene D., and T. E. Trethewey, to Ideal Industries, Inc. Straight line wire stripper. 3,146,645, 9–1–64, Cl. 81—9.5.

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Hinkle, James O., S. A. Myslinski, and F. J. Schneider, to Western Electric Co., Inc. Apparatus for assembling components. 3,133,337, 5–19–64, Cl. 29—25.3.

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Hirschmann, Gertraud E. Artificial Christmas trees. 3,126,310, 3–24–64, Cl. 161—24.
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Hirschmann, Ralph F., A. A. Patchett, A. Rosegay, and G. J. Kent, to Merck & Co., Inc. Δ^4 and $\Delta^{4,6}$-17*a*-acyloxy-20-oxo-steroid-[3,2-*c*] pyrazoles of the pregnane series. 3,148,183, 9–8–64, Cl. 260—239.5.
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Hirtreiter, Walter J. Accelerometer apparatus. 3,124,962, 3–17–64, Cl. 73—516.
Hirtz, Alfred G. J.: *See*—
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Hirtz, Hans and H. J. 3,139,885.
Hirtz, Hans and H. J. Device for the treatment of diseases of the respiratory passages. 3,139,885, 7–7–64, Cl. 128—212.
Hirtz, Michael. Vacuum molding machine. 3,156,012, 11–10–64, Cl. 18—19.
Hirvela, Robert J., and F. D. McLin, to Collins Radio Co. Compensated time division FM stereo multiplex system. 3,136,860, 6–9–64, Cl. 179—15.
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Brown, Clarence K. 3,147,663.
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Hiskey, Clarence F., and N. Weiner, to Endo Laboratories Inc. Stable, hermetically sealed isotonic parenteral vehicles containing buffered warfarin sodium. 3,121,664, 2–18–64, Cl. 167—65.
Histed, Howard. Sandblast machine with precision sand-feed, remotely started and stopped. 3,139,705, 7–7–64, Cl. 51—8.
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Doi, Toshio. 3,162,529.
Hasegawa, Hikaru. 3,140,613.
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Hitch, Robert A., W. A. Bertolini, and C. O. Smith, to Highway Trailer Industries, Inc. Body member connecting mechanism. 3,162,320, 12–22–64, Cl. 220—23.4.
Hitchcock, Elwyn P., and C. S. Persons. Method of repairing a seal assembly on a worn shaft. 3,137,933, 6–23–64, Cl. 29—401.
Hitchcock, Paul C., to The Chase-Shawmut Co. Knife blade type fuse having silver-plated blade contacts. 3,134,001, 5–19–64, Cl. 200—132.
Hitchcock, Richard W.: *See*—
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Hitchcock, William J. Infra-red imaging means using a magnetic film detector. 3,122,642, 2–25–64, Cl. 250—83.3.
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Hitchings, George H., G. B. Elion, and I. Goodman, to Burroughs Wellcome & Co. (U.S.A.) Inc. 2-amino-6-iodopurine. 3,132,144, 5–5–64, Cl. 260—254.
Hitchings, George H., and G. B. Elion, to Burroughs Wellcome & Co. (U.S.A.) Inc. Alkylthiopurines and method. 3,135,573, 6–2–64, Cl. 260—262.
Hitchings, George H., and G. B. Elion, to Burroughs Wellcome & Co. (U.S.A.) Inc. Purine derivatives. 3,135,754, 6–2–64, Cl. 260—252.
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Hitchings, George H., and B. Roth, to Burroughs Wellcome & Co. 4-piperazino-5-arylmercapto pyrimidines. 3,154,551, 10–27–64, Cl. 260—256.5.
Hitchings, George H., G. B. Elion, and S. Bieber, to Burroughs Wellcome & Co. (U.S.A.) Inc. 4-thio-2′-deoxyuridine. 3,163,639, 12–29–64, Cl. 260—211.5.
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Rainer, William C., Redding, Hitov, Sloan, and Stewart. 3,144,399.
Hitt, Otis D., and R. E. Stine, to The Aro Corp. Prony brake apparatus. 3,119,256. 1–28–64, Cl. 73—135.
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Hjelm, Karl E. W., to Bofors, Aktiebolaget. Fuze for an explosive projectile. 3,119,336, 1–28–64, Cl. 102—72.
Hjelm, Karl E. W., and C. F. Leth, to Bofors, Aktiebolaget. Fuze for projectiles. 3,135,206, 6–2–64, Cl. 102—73.
Hjermstad, Erling T., and L. C. Martin, to Penick & Ford, Ltd. Inc. Etherifying granule starch in aliphatic ketone solvent medium. 3,135,739, 6–2–64, Cl. 260—233.3.
Hjermstad, Sverre, to Raytheon Co. Blocking oscillator frequency divider using a non-linear feedback amplifier for stabilization. 3,139,532, 6–30–64, Cl. 307—88.5.
Hjertberg, Peter G., and P. Skogby, to Allmanna Svenska Elektriska Aktiebolaget. Relay protection for capacitor banks. 3,143,687, 8–4–64, Cl. 317—12.
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Hnilicka, Milo P., Jr., to National Research Corp. Insulation device. 3,130,561, 4–28–64, Cl. 62—331.
Hnilicka, Milo P., Jr., and J. C. Simons, Jr., to National Research Corp. Vacuum device. 3,119,243, 1–28–64, Cl. 62—331.
Ho, Yu Chi, E. C. Johnson, and J. L. McKelvie, to The Bendix Corp. Control system. 3,128,374, 4–7–64, Cl. 235—151.
Hoag, Chauncey A., to Mertronics Corp. Pattern and method of making same. 3,149,382, 9–22–64, Cl. 22—164.

Hoag, Gilbert L. Socket wrench with captive handle. 3,161,093, 12–15–64, Cl. 81—177.
Hoag, Harry J., Jr., and J. R. Meidinger, to Owens-Corning Fiberglas Corp. Method and apparatus for handling continuous filamentary material. 3,154,836, 11–3–64, Cl. 28—64.
Hoag, John F., and R. H. Larson, to Dukane Corp. Film frame viewer with adjustable gate assembly. 3,159,077, 12–1–64, Cl. 88—24.
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Allen, Kenneth C. 3,139,612.
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Hobbs, Donald S., to North American Philips Co., Inc. Circuit arrangements including charge storage tubes. 3,142,839, 7–28–64, Cl. 343—7.7.
Hobbs, Howard F., to Hobbs Transmission Ltd. Power transmission apparatus. 3,124,974, 3–17–64, Cl. 74—759.
Hobbs, James C., II: *See*—
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Hobbs, Marian L. Exhaust muffler filter. 3,129,078, 4–14–64, Cl. 55—313.
Hobbs, Oliver K., to Benthall Machine Co., Inc. Peanut picking machine. 3,156,245, 11–10–64, Cl. 130—27.
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Hoberg, George G., L. E. Mott, J. R. Van Andel, E. W. Veitch, and R. C. Weise, to Burroughs Corp. Data storage system. 3,144,549, 8–11–64, Cl. 235—157.
Hoberg, George G., J. R. Van Andel, and E. W. Veitch, to Burroughs Corp. Electronic adder using two decade counters alternately. 3,161,765, 12–15–64, Cl. 235—176.
Hoberman, Max J., to Engelhard Industries, Inc. Temperature controlled fuel valve for a jet engine. 3,128,946, 4–14–64, Cl. 236—78.
Hobin, John L., to Springfield-Greene Industries, Inc. Apparatus for thermometer manufacture. 3,137,557, 6–16–64, Cl. 65—280.
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Hobrough, Gilbert L., to Hunting Survey Corp. Ltd. Automatic stereoplotting system and method. 3,145,303, 8–18–64, Cl. 250—220.
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Hoch, Paul E., and R. J. Bellet, to Hooker Chemical Corp. Composition comprising a polyester and a monoester of a dihydroxy-substituted benzophenone. 3,157,709, 11–17–64, Cl. 260—861.
Hoch, Robert S., to Phillips Petroleum Co. Valve for well operation. 3,129,763, 4–21–64, Cl. 166—224.
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Hochberg, Jerome, to E. I. du Pont de Nemours and Co. Polytetrafluoroethylene copper laminate. 3,136,680, 6–9–64, Cl. 161—189.
Hochberg, Jerome, to E. I. du Pont de Nemours and Co. Process and apparatus for embossing sheet material. 3,157,723, 11–17–64, Cl. 264—861.

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Hochreuter, Johann. Electric hammer drilling device with intermittent change over gear for the hammer tool. 3,133,600, 5–19–64, Cl. 173—75.
Hochschild, Richard, to The Budd Co. Electromagnetic-testing bridge-network with digital programming control for operation under a plurality of initial unbalance conditions. 3,132,299, 5–5–64, Cl. 324—34.
Hochstein, Alexander E., to The Strong Electric Corp. Inductivity energized unit. 3,146,954, 9–1–64, Cl. 240—1.2.
Hochstein, Francis A., to Chas. Pfizer & Co., Inc. Process of extracting pleiocarpa mutica. 3,129,138, 4–14–64, Cl. 167—67.
Hochstetler, Nevin M., to Minneapolis-Honeywell Regulator Co. Printed circuit module with hinged circuit panel. 3,147,402, 9–1–64, Cl. 317—100.
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Hochwalt, Carroll A., to Monsanto Co. Process for preparing phosphate esters with a vanadium catalyst. 3,155,710, 11–3–64, Cl. 260—461.
Hock, Lawrence L., to Niagara Machine & Tool Works. Apparatus for forming sheet metal. 3,135,313, 6–2–64, Cl. 153—21.
Hockensmith, Wilbur D., Jr. Three axle trailer running gear. 3,121,574, 2–18–64, Cl. 280—104.5.
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Hockgraf, Norman N., to Esso Research and Engineering Co. Propylene purification process. 3,134,726, 5–26–64, Cl. 202—39.5.
Hockin, John. Method of investment casting. 3,156,023, 11–10–64, Cl. 22—196.
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Hocking, Colin S., and P. H. Cronelid, to Aktiebolaget Electrolux. Refrigerator cabinet. 3,150,796, 9–29–64, Cl. 220—9.
Hocks, Kurt, to Compagnie de Saint-Gobain. Manufacture of suspension-type long-body electrical insulators. 3,134,164, 5–26–64, Cl. 29—155.52.
Hodagaya Kagaku Kogyo Kabushiki Kaisha: *See*—
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Hodapp, Armand E., to Ferguson-Landoe Box Co. Carton and blank therefor. 3,146,936, 9–1–64, Cl. 229—51.
Hodapp, Edward J., to Armstrong Cork Co. Ceiling suspension system. 3,149,704, 9 22–64, Cl. 189—85.
Hodgdon, James L., to Radio Corp. of America. Apparatus for testing tubes for all possible short circuits between electrodes, in a single operation. 3,135,913, 6–2–64, Cl. 324—21.
Hodgdon, James L., to Radio Corp. of America. Detection apparatus. 3,151,819, 10–6–64, Cl. 242—54.
Hodge, Bernard R. Necktie holding device. 3,129,475, 4–21–64, Cl. 24—49.
Hodge, Edward B., to Commercial Solvents Corp. 2-nitro-1,3-bis(3-oxazolidinyl)-propane compounds and their preparation. 3,160,634, 12–8–64, Cl. 260—307.
Hodge, John M., to United States Steel Corp. Production of high strength steel structural shapes. 3,117,037, 1–7–64, Cl. 148—12.3.
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Williams, Beverly E. 3,124,468.

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Hodges, Howard T., to Eastman Kodak Co. Card shingling device and clamp therefor. 3,139,809, 7–7–64, Cl. 95—85.
Hodges, Howard T., C. E. Swing, and C. R. Taylor, to Eastman Kodak Co. Automatic copying device. 3,143,948, 8–11–64, Cl. 95—77.5.
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Hodges, Merwyn E., to General Electric Co. Phase-sequence network for eliminating response failure upon positive and negative sequence cancellation. 3,154,737, 10–27–64, Cl. 324—108.
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Williams, Beverly E. 3,128,191.
Williams, Beverly E. 3,130,057.
Williams, Beverly E. 3,155,123.
Hodges, William C., to Hodges Chemicals Co. Device for mixing chemically reactive ingredients. 3,129,926, 4–21–64, Cl. 259—4.
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Hodgman, Willis K., Jr., to Hodgman Mfg. Co., Inc. Flush pendent sprinkler head. 3,130,790, 4–28–64, Cl. 169—40.
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Hodgson, James E., to Solid Fuels Corp. Solid fuels and formulations. 3,158,993, 12–1–64, Cl. 60—35.4.
Hodgson, James E., to Solid Fuels Corp. Solid fuels and methods of propulsion. 3,158,994, 12–1–64, Cl. 60—35.4.
Hodgson, James E., to Solid Fuels Corp. Laminated tape propellants. 3,159,104, 12–1–64, Cl. 102—98.
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Hodgson, William J., Jr., to Arisun Corp. Method and apparatus for casting of shaped articles. 3,159,696, 12–1–64, Cl. 264—93.
Hodkinson, Harold, to Dunlop Rubber Co. Ltd. Brakes and wear compensating mechanism for brakes. 3,129,789, 4–21–64, Cl. 188—72.
Hodkinson, Harold, to Dunlop Rubber Co. Ltd. Slack adjuster for disc brakes. 3,135,360, 6–2–64, Cl. 188—73.
Hodkinson, Harold, to Dunlop Rubber Co. Ltd. Disc brakes. 3,139,157, 6–30–64, Cl. 188—73.
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Hoeckelman, Ralph F., W. M. Lenard, and A. M. Rickel, Jr., to The Bendix Corp. Method of making mesas for diodes by etching. 3,154,450, 10–27–64, Cl. 156—17.
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Hoedemaker, Robert W., and C. Molnar, to Gulton Industries, Inc. Control for magnetic memory matrix. 3,157,864, 11–17–64, Cl. 340—174.
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Hogan, Jimmie S. and R. L.; said R. L. Hogan assor. to said J. S. Hogan. Commutatorless D.C. motor. 3,136,935, 6–9–64, Cl 318—138.

Hogan, John M., and H. F. Bernholdt, to Swift & Co. Method of tenderizing meat. 3,163,540, 12–29–64, Cl. 99—107.

Hogan, John P., to Phillips Petroleum Co. Catalyst and process for producing olefin polymers. 3,130,188, 4–21–64, Cl. 260—94.9.

Hogan, John W., and F. Zeman, to The Nortronics Co., Inc. Mounting bracket for magnetic heads. 3,155,359, 11–3–64, Cl. 248—288.

Hogan, John X. Hydraulic motor and proportioning system. 3,143,138, 8–4–64, Cl. 137—567.

Hogan, Patrick J.: *See*—
Walton, Leonard, and Hogan. 3,131,972.

Hogan, Robert L.: *See*—
Hogan, Jimmie S. and R. L. 3,136,935.

Hogan, Walter H.: *See*—
Hoffman, Thomas E., Hogan, and Stuart. 3,148,512.

Hogan, Walter H., to Arthur D. Little, Inc. Closed-cycle cryogenic refrigerator and apparatus embodying same. 3,151,466, 10–6–64, Cl. 62—6.

Hogan, William J., and A. R. Kishpaugh, to Stapling Machines Co. Mechanism for feeding binding wire intermittently to wirebound box-making machine. 3,123,830, 3–10–64, Cl. 1—121.

Hogan, William J., to Stapling Machine Co. Wirebound box lining construction. 3,140,790, 7–14–64, Cl. 217—3.

Hoge, William H., and M. S. Barbour, to Oxford Paper Co. Calcium carbonate containing coating composition and transfer coating receptive paper coated therewith. 3,118,-782, 1–21–64, Cl. 117—35.6.

Högedal, Sven A., to Evers & Co. Aktiebolag. Hinge devices. 3,121,251, 2–18–64, Cl. 16—175.

Hogendoorn, Willem M.: *See*—
Janssen, Lambertus B. J., and Hogendoorn. 3,158,513.

Hoger, Herwig, F. Kaess, H. Kronacher, and T. Fischer, to Suddeutsche Kalkstickstoff-Werke Aktiengesellschaft. Continuous processing of the waste gases from the white calcium cyanamide manufacture. 3,147,069, 9–1–64, Cl. 23—2.

Hogg, George W., to American Air Filter Co., Inc. Pocket-type filter structure. 3,124,440, 3–10–64, Cl. 55—484.

Hogg, John A., and J. Korman, to The Upjohn Co. 21-carbethoxylates of prednisone and prednisolone. 3,158,628, 11–24–64, Cl. 260—397.45.

Hogg, John A., and W. P. Schneider, to The Upjohn Co. 2α-lower-alkyl-9α-halo-11, 17-dioxygenated - 3 - keto - 4 - androstenes. 3,161,660, 12–15–64, Cl. 260—397.3.

Hogg, Wilfrid H.: *See*—
Watson, John W., Kendall, and Hogg. 3,151,098.

Hogg, William J., and B. Cates, to Patchogue-Plymouth Corp. Automatic scavenger for paper yarn machine. 3,162,004, 12–22–64, Cl. 57—31.

Hoglund, Nils. Gear cutting apparatus. 3,118,344, 1–21–64, Cl. 90—9.4.

Hoglund, Nils. Apparatus for forming contours. 3,122,239, 2–25–64, Cl. 214—1.
Hoglund, Nils. Grinding wheel dressing apparatus. 3,151,-606, 10–6–64, Cl. 125—11.
Hogsed, Milton J., to E. I. du Pont de Nemours and Co. Polyester wash-wear fabric. 3,123,587, 3–3–64, Cl. 260—75.
Hogsten, Yngve A., to Y. A. Hogsten, L. B. Kidwell, and Tholand, Inc. Method and apparatus for banding coils and stacking banded coils on skids. 3,147,691, 9–8–64, Cl. 100—2.
Hogue, Marcus P.: *See*—
Yartz, Johnny W., and Hogue. 3,159,354.
Hogue, Marcus P., to General Electric Co. Combined stopper and control means for waste disposal apparatus. 3,142,-448, 7–28–64, Cl. 241—32.5.
Hogue, Marcus P., to General Electric Co. Encapsulated motor for waste disposal apparatus. 3,163,369, 12–29–64, Cl. 241—46.
Hogue, Robert A., to Inland Steel Co. Heating furnace. 3,156,453, 11–10–64, Cl. 263—6.
Hoh, Siegfried R. Thermomagnetic device. 3,121,265, 2–18–64, Cl. 20—62.
Hohl, Jakob H., to International Business Machines Corp. Magnetic core switching system. 3,129,337, 4–14–64, Cl. 307—88.
Hohl, John, and G. L. Webster, to Owens-Illinois Glass Co. Closure cap orienting apparatus. 3,123,198, 3–3–64, Cl. 198—33.
Hohl, Rudolf, to Hartmann & Braun Aktiengesellschaft. Recorder. 3,144,296, 8–11–64, Cl. 346—141.
Hohmann, Lawrence A., Jr., F. W. Kinsman, and T. P. Nenninger, to Bell Telephone Laboratories, Inc. Repertory dialer. 3,128,351, 4–7–64, Cl. 179—90.
Hohmann, William R. Paint roller coating apparatus. 3,128,-494, 4–14–64, Cl. 15—573.
Hohn, Bernhard: *See*—
Singer, Franz, Hohn, and Benninger. 3,136,234.
Hohne, Jack C., Jr., and K. E. Pope, to Globe Industries, Inc. Reversible motor speed control. 3,143,695, 8–4–64, Cl. 318—257.
Hohner, M., Inc.: *See*—
Lindermeier, Franz. 3,145,608.
Hohnjec, Zeljko. Two-part packaging container of plastic for carrying sensitive material. 3,128,933, 4–14–64, Cl. 229—2.5.
Hohnstein, Paul. Collapsible rack. 3,163,296, 12–29–64, Cl. 211—126.
Hohwart, George, to N. A. Woodworth Co. Slip ring. 3,130,-645, 4–28–64, Cl. 91—442.
Hoiberg, Arnold J.: *See*—
Cash, Carl G., Hoiberg, and Butterfield. 3,160,512.
Hoice, John P., and G. L. Anderson, to United States of America, Atomic Energy Commission. Barkhausen oscillation elimination means. 3,158,815, 11–24–64, Cl. 328—215.
Hojalata y Lamina, S.A.: *See*—
Mader, Charles K., and Celada. 3,136,623.
Mader, Charles K., and Celada. 3,136,624.
Mader, Charles K., and Celada. 3,136,625.
Hokama, Takeo: *See*—
Bachman, Gustave B., and Hokama. 3,123,639.
Hoke, Howard L., to Dresser Industries, Inc. Acorn valve for punching T. 3,148,696, 9–15–64, Cl. 137—318.
Hoke Inc.: *See*—
Kelly, Jack J., and Reilly. 3,134,401.
Hoke, Ralph M., to Callery Chemical Co. Chemical plating of metal-boron alloys. 3,150,994, 9–29–64, Cl. 117—130.
Hoke, Ronald C.: *See*—
Marsh, William D., Pramuk, Hoke, and Skarstrom. 3,142,547.
Hoke, Ronald C., W. D. Marsh, J. Bernstein, and F. S. Pramuk, to Esso Research and Engineering Co. Hydrogen purification process. 3,141,748, 7–21–64, Cl. 55—25.
Hoke, Walter M., to The Boeing Co. Air vehicle carriage gear assembly. 3,162,403, 12–22–64, Cl. 244—100.
Hokkaido Tanko Kisen Kabushiki Kaisha: *See*—
Higuchi, Kozo, Osa, and Takeuchi. 3,125,512.
Higuchi, Kozo, and Tsuyuguchi. 3,153,666.
Hokunoki Co. Ltd.: *See*—
Nishimoto, Kaichi. 3,162,248.
Holahan, John L., W. L. McKown, R. Moen, and V. E. Weiss, to General Mills, Inc. Fruit product and process for the preparation thereof. 3,134,683, 5–26–64, Cl. 99—204.
Holahan, Joseph M., to True Temper Corp. Line holding means for closed face spinning reel. 3,160,363, 12–8–64, Cl. 242—84.2.
Holahan, Joseph M., Jr., to True Temper Corp. Spinning reel loop pickup. 3,128,059, 4–7–64, Cl. 242—84.2.
Holben, Bernard C., to Industrial Nucleonics Corp. Transfer mechanism for automatic routing conveyors. 3,126,086, 3–24–64, Cl. 198—24.
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Reynolds, Martin M., and Holben. 3,163,313.
Holben, Eugene F.: *See*—
Lang, Frederic A., and Holben. 3,139,728.
Holbert, Don R., to Sinclair Research, Inc. Secondary recovery process. 3,148,730, 9–15–64, Cl. 166—9.
Holbert, Don R., and R. O. Perry, to Sinclair Research, Inc. Method of combatting the obstruction of gas circulation in gas drilling. 3,148,729, 9–15–64, Cl. 166—5.
Holbrook, Darrel W.: *See*—
Currey, Charles H., Brown, Holbrook, Truesdale, and Freeman. 3,143,705.
Currey, Charles H., Freeman, Holbrook, and Truesdale. 3,148,245.
Holbrook, Franklin K.: *See*—
Leslie, Harry A., Holbrook, and Andrews. 3,161,123.
Holbrook, Franklin K., to Brown Citrus Machinery Corp. Cutter for citrus peel halves. 3,129,738, 4–21–64, Cl. 146—3.
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Bernard, George G., and Holbrook. 3,123,135.
Bernard, George G., and Holbrook. 3,141,501.
Holbrook, Robert S. Lighting device for trees. 3,118,618, 1–21–64, Cl. 240—10.
Holbrook, Thomas R., to Johnson & Johnson. Method of manufacture of coated woven glass insect screen. 3,119,-169, 1–28–64, Cl. 28—74.
Holcer, Levi W. Hay bale loader. 3,120,887, 2–11–64, Cl. 198—7.
Holcomb, Don R.: *See*—
Parode, Lowell C., and Holcomb. 3,141,163.
Holcomb, Don R., to Hughes Aircraft Co. Parametric even harmonic frequency multiplier. 3,161,816, 12–15–64, Cl. 321—69.
Holcomb, Don R., R. M. Jaffe, J. M. Pew, and E. E. St. John, to Hughes Aircraft Co. Radar receiver utilizing narrow band filtering and multiplexing. 3,141,164, 7–14–64, Cl. 343—16.
Holcomb, Harry E., to Johns-Manville Corp. Bonded fibrous insulation. 3,118,807, 1–21–64, Cl. 161—196.
Holcomb & Hoke Mfg. Co., Inc.: *See*—
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Holcomb, Richard H., to General Electric Co. Filament and reflector support for an elongated tube. 3,160,777, 12–8–64, Cl. 313—113.
Holcombe, Harold N., to The Mead Corp. Dispensing container for rolled sheet material. 3,134,525, 5–26–64, Cl. 225—47.
Holcombe, Ralph L., to The Daw Corp. Mobile type sign. 3,135,381, 6–2–64, Cl. 206—59.
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Fonken, William A. 3,144,664.
Hold, Peter: *See*—
Ahlefeld, Edwin H., Jr., Baldwin, Hold, Rapetski, and Scharer. 3,154,808.
Holden, Brian A., to Burgess Products Co. Ltd. Electric switch for use over substantial ranges of temperature. 3,119,916, 1–28–64, Cl. 200—168.
Holden, Ernest J. Door furniture. 3,156,495, 11–10–64, Cl. 292—336.3.
Holden, John C., to Halliburton Co. Cementing tool. 3,148,-731, 9–15–64, Cl. 166—184.
Holden, John L.: *See*—
Senior, Henry, and Holden. 3,148,489.
Holden, Lawrence T. Mounting devices. 3,126,191, 3–24–64, Cl. 248—286.
Holden, Richard A. Work bushing guide for automatic screw machines. 3,162,315, 12–22–64, Cl. 214—1.1.
Holden, Richard W.: *See*—
Kauffman, Samuel H., and Holden. 3,158,351.
Holden, Robert M.: *See*—
Wilton, Herbert C., and Holden. 3,148,826.
Holden, Robert S., to Imperial Chemical Industries Ltd. Process for the manufacture of 2-β-methoxyethylpyridine. 3,155,675, 11–3–64, Cl. 260—297.
Holden, Vernon K., to Western Electric Co., Inc. Method of winding a coil spring on a spool. 3,153,849, 10–27–64, Cl. 29—450.
Holder, Otis W., to Patent-Hose Corp. Sock having a bulky knit cuff. 3,154,933, 11–3–64, Cl. 66—172.
Holder, Paul F.: *See*—
Jackson, James A., and Holder. 3,124,837.
Holderer, Oscar C., to United States of America, Army. Inflatable seal connector. 3,124,852, 3–17–64, Cl. 20—69.
Holderer, Oscar C. Clinometer assembly. 3,159,926, 12–8–64, Cl. 33—214.
Holding Favre Leuba S.A.: *See*—
Mathys, Pierre. 3,129,555.
Zenger, Willy. 3,157,985.
Holdo, Jan K.: *See*—
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Brook, Abraham J., Wodarski, and Holdowsky. 3,134,-725.
Holdstock, Norman G., to General Electric Co. Unsymmetrical poly(arylenesiloxane) fluids. 3,117,149, 1–7–64, Cl. 260—448.2.
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Hole, Marvin A., and J. H. Murphy, to Multi-Purpose Drum Co. Vehicular wheel. 3,135,557, 6–2–64, Cl. 301—6.
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Teske, Wolfgang, and Holemann. 3,129,152.
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De Wijn, Manning, Ten Oever, and Holewijn. 3,141,656.
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Holiday Line, Inc., The: *See*—
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Mirando, Louis. 3,141,261.
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Holinbeck, Dale G., to United States of America, Navy. Transmission line having high attenuation for radiant energy induced high frequency currents, useful in detonation circuits. 3,125,733, 3–17–64, Cl. 333—79.
Holinbeck, Dale G., to Bjorksten Research Laboratories for Industry, Inc. High frequency immune squib. 3,148,619, 9–15–64, Cl. 102—28.
Holka, Thomas C., and C. J. Haddad. Clothes drier. 3,130,-838, 4–28–64, Cl. 211—113.
Holl, Herman F., to Schroeder Bros. Corp. Filter condition indicator device. 3,150,633, 9–29–64, Cl. 116—70.
Holl, John S., and T. G. Porter. Nocking point for bowstring. 3,135,020, 6–2–64, Cl. 18—30.
Holl, Peter M., to General Electric Co. Engine exhaust system. 3,116,604, 1–7–64, Cl. 60—39.31.
Holl, Peter M., to General Electric Co. Sump seal system. 3,133,693, 5–19–64, Cl. 230—116.
Hollabaugh, Donald M., to Ford Motor Co. Induction system heating device. 3,150,652, 9–29–64, Cl. 123—122.
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Salyer, Ival O., and Holladay. 3,163,683.
Holland, Bernard S., to Eltra Corp. Bombing computer. 3,132,561, 5–12–64, Cl. 89—1.5.
Holland, David, and C. W. Schlager, to United States of America, Army. Automatic type placement system. 3,116,-661, 1–7–64, Cl. 88—24.
Holland, Edward T., Jr., to Cherry-Burrell Corp. Conveyor structure. 3,141,545, 7–21–64, Cl. 198—213.
Holland, Edward T., Jr., to Cherry-Burrell Corp. Apparatus for handling stacked containers. 3,160,260, 12–8–64, Cl. 198—35.
Holland, Edward T., Jr., and G. R. Schultz, to Cherry-Burrell Corp. Casing machine. 3,159,954, 12–8–64, Cl. 53—61.
Holland, Francis J.: *See*—
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Holland, Gerald F., to Chas. Pfizer & Co., Inc. Aralkylamines. 3,117,160, 1–7–64, Cl. 260—570.8.
Holland Hitch Co.: *See*—
Carrier, Louis V. 3,122,382.
Holland, Hugh V. Gas filling apparatus. 3,118,576, 1–21–64, Cl. 222—509.
Holland, J. H., Co.: *See*—
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Holland, John H. 3,138,392.
Holland, James G.: *See*—
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Cobi, Walter H. 3,162,252.
Holland, John H., to J. H. Holland Co. Spraybar. 3,120,927, 2–11–64, Cl. 239—124.
Holland, John H., to J. H. Holland Co. Equipment hookup device. 3,138,392, 6–23–64, Cl. 280—447.
Holland Ladder & Mfg. Co.: *See*—
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Holland, Raymond L. Denture dispensers. 3,153,855, 10–27–64, Cl. 32—8.
Holland, Theron M. Clamp-type rimmed can holder. 3,126,-599, 3–31–64, Cl. 24—81.
Hollander, Lewis E., Jr., to Lockheed Aircraft Corp. Piezoresistive transducer employing oxygen-deficient rutile as the piezoresistive material. 3,121,337, 2–18–64, Cl. 73—517.
Hollander, Lewis E., Jr., to Lockheed Aircraft Corp. Piezoresistive transducer employing p-type lead telluride (PbTe) as the piezoresistive material. 3,145,563, 8–25–64, Cl. 73—134.
Hollander, Lewis E., Jr., and R. A. Quinn, to Lockheed Aircraft Corp. Single-crystal rutile capacitor and method of fabrication. 3,121,830, 2–18–64, Cl. 317—258.
Hollander, Milton B., and M. F. Camps-Campins, to American Machine & Foundry Co. Friction welding. 3,121,948, 2–25–64, Cl. 29—470.3.
Hollander, Milton B., and M. F. Camps-Campins, to American Machine & Foundry Co. Friction welding. 3,134,169, 5–26–64, Cl. 29—470.3.
Hollander, Milton B., and E. L. Von Rosenberg, to American Machine & Foundry Co. Friction welding. 3,134,278, 5–26–64, Cl. 78—82.
Hollander, Milton B., and M. F. Camps-Campins, to American Machine & Foundry Co. Friction sealing. 3,144,710, 8–18–64, Cl. 29—470.3.
Hollander, Steven H.: *See*—
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Hollands, George, to Torjesen, Inc. Folding partition seal. 3,126,048, 3–24–64, Cl. 160—40.
Hollands, George, to Torjesen, Inc. Curtain partition. 3,126,-049, 3–24–64, Cl. 160—40.
Hollandse Signaalapparaten, N.V.: *See*—
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Van Staaden, Cornelis A. 3,147,475.
Holldampf, Hans A., to E. F. Eckerkamp, and M. Sauerlander. Vacuum cleaner attachment. 3,149,363, 9–22–64, Cl. 15—373.
Holle, Frederick C.: *See*—
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Holle, Robert F.: *See*—
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Hollenbeck, Clifford M., to Red Arrow Products Corp. Smoke flavored cereal product and process for making same. 3,117,007, 1–7–64, Cl. 99—93.
Hollenden, William J., and C. E. Welsh, to General Electric Co. Entrance seal for electrical conductors extending through the wall of a pressure vessel. 3,155,770, 11–3–64, Cl. 174—153.
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Holleran, Charles R., to International Business Machines Corp. Instruction counter system. 3,162,841, 12–22–64, Cl. 340—172.5.
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Hollett, Alec W. Split coupling with an integrally formed one-piece gasket. 3,153,550, 10–20–64, Cl. 285—179.
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Bettoni, Eugene C. 3,139,079.
Cornelius, George W. Re. 25,576.
Cowles, Warren H., and Smith. 3,128,783.
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Cramer, Thomas F. 3,133,531.
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Fleming, Robert S., and Cowles. 3,116,600.
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Kinney, David C. 3,143,043.
Kittler, Milton J. 3,128,694.
Kittler, Milton J. 3,136,717.
Kittler, Milton J. 3,139,820.
Kittler, Milton J. 3,159,692.
Lift, Bob G. 3,143,333.
Locher, Ramuald B., Jr. 3,127,882.
Mansfield, George A., Jr. 3,147,760.
Marsee, Fred J., and Romeo. 3,153,422.
Miles, Claude W., Jr., Sterner, and Romeo. 3,138,646.
Phillips, Carlton C. 3,147,101.
Samson, Rogelio G. 3,120,490.
Scott, Ian J. C. 3,136,939.
Sterner, Melvin F. 3,132,684.
Sterner, Melvin F., and Harroun. 3,143,580.
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Sterner, Melvin F., Romeo, Marsee, and Miles. 3,157,-715.
Holley Computer Products Co.: *See*—
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Irwin, Samuel N., McGregor, Goetsch, and Jackson. 3,148,615.
Miesiak, Conrad E. 3,148,616.
Holley, Danforth, and V. R. Anderson, to Holley Plastics Co. Composite paperboard and plastic container. 3,124,241, 3–10–64, Cl. 206—45.31.
Holley, George M., Jr., to Holley Carburetor Co. Pump. 3,153,381, 10–20–64, Cl. 103—44.
Holley, John D., and J. F. Bryan, Jr., to Kershaw Mfg. Co., Inc. Apparatus for lining a railroad track. 3,137,244, 6–16–64, Cl. 104—8.
Holley Plastics Co.: *See*—
Holley, Danforth, and Anderson. 3,124,241.
Hollibaugh, Homer J.: *See*—
Loska, Stephen J., Jr., and Hollibaugh. 3,154,196.
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Holliday, John B.: *See*—
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Appleton, Henry B. 3,141,011.
Hollinger, Walter P., to Melpar, Inc. Lumped constant filter. 3,156,880, 11–10–64, Cl. 333—73.
Hollingshead, Ethan A., N. W. F. Phillips, and F. W. Southam, to Aluminum Laboratories Ltd. Decomposing method and apparatus for subhalide distillation. 3,158,467, 11–24–64, Cl. 75—68.
Hollingsworth, Ashley J.: *See*—
Hartley, Henry J., and Hollingsworth. 3,131,919.
Hollingsworth, Clinton A., L. J. Lamb, and W. C. Austin, to Smith-Douglass Co., Inc. Process for the defluorination of phosphates. 3,151,936, 10–6–64, Cl. 23—109.
Hollingsworth, Clinton A., L. J. Lamb, and W. C. Austin, to Smith-Douglass Co., Inc. Defluorination of phosphoric acid. 3,151,941, 10–6–64, Cl. 23—165.
Hollingsworth, Donald H., Jr., A. S. Johnson, L. M. Litz, and R. W. Oliver, to Union Carbide Corp. Cerium monosulfide articles. 3,125,421, 3–17–64, Cl. 29—183.5.
Hollingsworth, Henry L., and V. H. Lausen, to Phelps Dodge Copper Products Corp. High-speed wire take-up and spool changer. 3,148,841, 9–15–64, Cl. 242—25.
Hollingsworth, John H.: *See*—
Block, Leo, and Hollingsworth. 3,140,706.

Hollingsworth, John R., Co.: *See*—
Giacalone, Dino B. 3,123,758.
Hollingsworth, Lowell M., to United States of America, Air Force. Moving target indication method and system. 3,161,873, 12–15–64, Cl. 343—7.7.
Hollingsworth, R. Lee. Automobile traffic surveillance apparatus and speed measurement equipment. 3,120,992, 2–11–64, Cl. 346—107.
Hollingsworth, R. Lee. Sectional sealed-off inflated linear tubing and extruding and sealing means for manufacturing purposes. 3,126,581, 3–31–64, Cl. 18—14.
Hollingsworth, R. Lee. Video tape recording. 3,160,704, 12–8–64, Cl. 178—6.6.
Hollis, Clinton R., to International Paper Co. Process and apparatus for making bag closures. 3,129,646, 4–21–64, Cl. 93—27.
Hollis, Frank, Jr.: *See*—
Reeves, Robert C., and Hollis. 3,136,643.
Hollis, Louis, and T. J. Nolder, to Republic Steel Corp. Method of uniformly bluing coils of embossed sheet steel. 3,122,459, 2–25–64, Cl. 148—12.1.
Hollis, O. V. Tape perforator electric shift and unshift. 3,158,315, 11–24–64, Cl. 234—96.
Hollister, Robert, and A. J. White, to American Can Co. Container and method of making the same. 3,157,338, 11–17–64, Cl. 229—4.5.
Hollister, Solomon C., and F. J. Kavanagh. Athletic shoe. 3,127,687, 4–7–64, Cl. 36—2.5.
Hollman, Peter I., to Robertshaw Controls Co. Gas valves. 3,146,794, 9–1–64, Cl. 137—625.15.
Holloway, David G. Rocket motor propellant. 3,120,737, 2–11–64, Cl. 60—35.6.
Holloway, John R.: *See*—
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Holloway, Thomas M., to Johnson Service Co. Fluid distribution device and system therefor. 3,140,047, 7–7–64, Cl. 236—1.
Hollowell, John R., to Fairchild Stratos Corp. Control system for infinitely variable automatic transmission. 3,139,-723, 7–7–64, Cl. 60—19.
Hollows, Jack, to Unit Tool & Engineering Co. Ltd. Rotary printing machines. 3,135,194, 6–2–64, Cl. 101—38.
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Hollstein, Heinrich J., and R. J. Novotny, to United States of America, Navy. Cooled reaction control device. 3,150,-486, 9–29–64, Cl. 60—35.54.
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Holmes, Trent H., to United Aircraft Corp. Liquid rocket thrust control. 3,161,017, 12–15–64, Cl. 60—35.6.
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Holowaty, Michael O., to Inland Steel Co. Free machining steel with sulphur plus tellurium and/or selenium. 3,152,-890, 10–13–64, Cl. 75—123.
Holowaty, Michael O., and A. M. Schwarz, to Inland Steel Co. Pelletizing of iron ore for sintering. 3,134,667, 5–26–64, Cl. 75—3.
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Holzer, Walter. Control apparatus for automatic washing machines. 3,124,667, 3–10–64, Cl. 200—33.
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Hottenroth, Fred W., P. H. Stiles, and J. J. Evans, to Hupp Corp. Insulated vehicle constructions. 3,149,877, 9–22–64, Cl. 296—28.
Hottenroth, Frederick W., and H. D. Jacoby, to ZZ Corp. Charcoal starter and cooker. 3,159,119, 12–1–64, Cl. 110—1.
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Houben, Gerardus M. M., and E. W. Jonker, to N.V. Koninklijke Stearine Kaarsenfabrieken "Gouda Apollo." Method of making margarine less spattering. 3,124,463, 3–10–64, Cl. 99—123.
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Howard, Arthur C. and J. A., to Rotary Hoes Ltd. Reverse-drive safety device for a walk-type tractor or cultivator. 3,147,818, 9–8–64, Cl. 180—82.
Howard, Bernard, to Mite Corp. Planetary type body for printer. 3,141,402, 7–21–64, Cl. 101—93.
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Howard, Charles. Door stop apparatus. 3,137,025, 6–16–64, Cl. 16—83.
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Howard, James W. Pulse gate noise limiter containing full wave bridge detector. 3,124,752, 3–10–64, Cl. 325—482.
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Howard, John C., to The Norwich Pharmacal Co. 6-(5-nitro-2-furyl)uracil. 3,121,083, 2–11–64, Cl. 260—260.
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Howard, Norman B., to The Procter & Gamble Co. Shortening product. 3,145,107, 8–18–64, Cl. 99—118.
Howard, Norman B., to The Procter & Gamble Co. Shortening product. 3,145,108, 8–18–64, Cl. 99—118.
Howard, Norman B., to The Procter & Gamble Co. Shortening product and method of making thereof. 3,145,109, 8–18–64, Cl. 99—118.
Howard, Oscar C. Heated dinner transport apparatus. 3,129,317, 4–14–64, Cl. 219—35.
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Howard, Ronald W., and R. K. Barltrop, to Elliott Bros. (London) Ltd. Aircraft instrument systems. 3,126,736, 3–31–64, Cl. 73—178

Howard, Sheldon J., to Trico Products Corp. Windshield wiper system. 3,153,802, 10–27–64, Cl. 15—250.27.
Howard, Thomas C., and D. R. Stuart, to The Gillmore-Olson Co. Load-bearing structure. 3,132,444, 5–12–64, Cl. 50—55.
Howard, Wayne R., to Clark Equipment Co. Hydrodynamic device with lock-up clutch. 3,126,079, 3–24–64, Cl. 192—3.2.
Howard, Wayne R., and B. L. Frost, to Clark Equipment Co. Transmission. 3,118,524, 1–21–64, Cl. 192—3.2.
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Howe, Charles P. Well slip assembly and hook wall anchor for a pumping string in a well casing. 3,150,719, 9–29–64, Cl. 166—217.
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Howe, Donald J., R. E. Maurer, and J. W. Henry, to Eastman Kodak Co. Line stereo color pictures. 3,161,509, 12–15–64, Cl. 96—40.
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Howe, Robert H. L., to Eli Lilly and Co. Disposal of toxic chemical wastes having a high concentration of cyanide ion. 3,145,166, 8–18–64, Cl. 210—16.
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Lirones, Nick G., and Operhall. 3,142,875.
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Howell, Alleyne C., Jr. Conveyor apparatus and conveyor chain therefor. 3,160,267, 12–8–64, Cl. 198—189.
Howell, Bryan G., to The Metal Box Co. Ltd. Applicator type containers. 3,135,007, 6–2–64, Cl. 15—608.
Howell, Bryan G., to The Metal Box Co. Ltd. Method of making applicator-type containers. 3,150,220, 9–22–64, Cl. 264—259.
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Howell, Edward K., to General Electric Co. Gas diode counter circuit. 3,158,781, 11–24–64, Cl. 315—84.5.
Howell, Edwin D., to Revere Copper and Brass Inc. Non-stick skillet. 3,143,241, 8–4–64, Cl. 220—64.
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Kron, Harold O., Stafford, and Howell. 3,151,502.
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Smith, Max R., and Howell. 3,139,750.
Howell, Pat. Apparatus for making metal building and building elements. 3,150,707, 9–29–64, Cl. 153—7.
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Howey, Charles K., to Hughes Aircraft Co. Electric drive. 3,127,790, 4–7–64, Cl. 74—661.
Howing, George H., to The Gleason Works. Work transfer mechanism. 3,139,194, 6–30–64, Cl. 214—1.
Howington, Thomas G., to St. Regis Paper Co. Process for rendering polymeric surface adherent to a coating. 3,161,702, 12–15–64, Cl. 264—23.
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Howland, Bradford, to Massachusetts Institute of Technology. Flux concentrator for high intensity pulsed magnetic fields. 3,124,726, 3–10–64, Cl. 317—158.
Howland, Earl W. Illuminating means for instruments. 3,120,349, 2–4–64, Cl. 240—2.1.
Howland, John W. Flag support. 3,127,868, 4–7–64, Cl. 116—173.
Howry, Douglass H., to Elm Research Laboratories, Inc. Liquid immersion ultrasonic apparatus and method for the non-destructive testing of solid bodies. 3,140,600, 7–14–64, Cl. 73—67.7.
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Huet, Andre. Light boiler for nuclear energy installation. 3,130,779, 4–28–64, Cl. 165—146.
Huet, Andre. Heat exchanger with grooved tubes. 3,138,201, 6–23–64, Cl. 165—163.
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Huet, Andre. Roughened heat exchanger tube. 3,154,141, 10–27–64, Cl. 165—133.

Huet, André. Nuclear reactor supplying superheated steam. 3,156,626, 11–10–64, Cl. 176—54.
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Huffman, Clarence W., and M. Hamer, to International Minerals & Chemical Corp. Process for the production of organic phosphorus halide-aluminum halide complexes and phosphonic acid diesters and diamides. 3,149,137, 9–15–64, Cl. 260—448.
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Huffman, Donald E., P. P. Petros, and W. J. Zenner, to Teletype Corp. Apparatus for automatically effecting line switching of telegraph messages. 3,124,643, 3–10–64, Cl. 178—3.
Huffman, Harold W., to The Hamilton Tool Co. Cammed tucker-blade folder. 3,124,349, 3–10–64, Cl. 270—73.
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Huffman, Max N. 3-allyloxy-16-oximino-17-keto steroids. 3,137,709, 6–16–64, Cl. 260—397.4.
Huffman, Max N., to Lasdon Foundation, Inc. Production of 17 beta-alkyl ethers of 16-keto-17 beta-hydroxy steroids. 3,155,691, 11–3–64, Cl. 260—397.4.
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Hughes, Alvin W. Emulsifier. 3,123,116, 3–3–64, Cl. 146—192.
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Stowell, Nathan J. 3,129,783.
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Hughes, James W., and N. J. Stowell; said Stowell assor. to Hughes. Pin plug adapter for coupling to radio signal in power wiring. 3,142,064, 7–21–64, Cl. 343—720.
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Huhtala, Taito E., to General Motors Corp. Brake antisqueal mechanism. 3,163,469, 12–29–64, Cl. 301—6.
Hui, William L. C., and J. A. Files, to Radio Corp. of America. Cathode ray tube, getter, and method of gettering. 3,121,-182, 2–11–64, Cl. 313—178.
Huibrechtse, Cornelis, to Canadian General Electric Co. Ltd. Alternating current switch having wiping contacts. 3,140,-375, 7–7–64, Cl. 200—164.
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Hulck, Karl, and F. Schultes, to Deutsche Star Kugelhalter G.m.b.H. Method of making a split annular tolerance ring. 3,142,887, 8–4–64, Cl. 29—148.4.
Hulen, Claude K. Photographic printing apparatus. 3,147,-683, 9–8–64, Cl. 95—73.
Hulett, Donald M., to Clark Products, Inc. Apparatus for perforating film from rolls. 3,140,838, 7–14–64, Cl. 242—56.
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Hulse, Alexander. Oscillator mechanism. 3,149,494, 9–22–64, Cl. 74—47.
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Humen, Nicholas, to Radio Corp. of America. Electron tube apparatus. 3,124,232, 3–10–64, Cl. 198—25.
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Humiston, Charles G., F. J. Meyer, and D. L. Kenaga, to The Dow Chemical Co. Increasing the strength of paper with vinyl sulfonium polymers. 3,130,117, 4–21–64, Cl. 162—168.
Humiston, Gerald F.: *See*—
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Hummel, Donald L.: *See*—
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Hummel, Frederick S., to Atomic Energy of Canada Ltd. Nuclear reactor fueling machine. 3,157,579, 11–17–64, Cl. 176—30.
Hummel, Harold G., to Ampex Corp. Tape editing aid. 3,156,-785, 11–10–64, Cl. 179—100.2.
Hummel, Karl H., Jr., to Cabral Motors, Inc. Electric motor with transistor control. 3,153,185, 10–13–64, Cl. 318—254.
Hummel, Raymond J., to H & H Plastics Mfg. Co. Plastic bibs. 3,146,465, 9–1–64, Cl. 2—49.
Hummel, Wiley M., to General Electric Co. Radiation sensitive thermally responsive switch. 3,143,619, 8–4–64, Cl. 200—138.
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Hummer, Elmer D., and T. T. Zachwieja. Rotary belt cleaner. 3,161,285, 12–15–64, Cl. 198—230.
Hummer, Herbert B., to Durametallic Corp. Sealed quench collar. 3,155,393, 11–3–64, Cl. 277—74.
Hummer, Ralph G., to Folding Carrier Corp., Division of Union Asbestos & Rubber Co. Shopping cart seat. 3,157,-410, 11–17–64, Cl. 280—33.99.
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Humphrey, Delby C. Face guard for football helmet. 3,139,-624, 7–7–64, Cl. 2—9.
Humphrey, Earl L., and J. J. McGrath, to Gulf Research & Development Co. Irradiation of lubricating oils. 3,153,-622, 10–20–64, Cl. 204—154.
Humphrey, Howard C., to Texaco Inc. Impact wrench device utilizing the torsional strain of the workpiece. 3,145,593, 8–25–64, Cl. 81—52.3.
Humphrey, Leonard C., to United States of America, Air Force. Radio direction finding system. 3,130,409, 4–21–64, Cl. 343—113.
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Hayward, Henry M. 3,154,901.
Humphrey, Samuel A., to United States of America, Navy. Integrated auxiliary power unit. 3,136,250, 6–9–64, Cl. 102—49.
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Humphreys, John W., to Johnson Products, Inc. Crankcase blow-by exhauster. 3,159,150, 12–1–64, Cl. 123—119.
Humphreys, Marion W. Apparatus for production of foamed plastics. 3,156,535, 11–10–64, Cl. 23—285.
Humphreys, Victor T., to Koppers Co., Inc. Treatment of dyed anodized aluminum. 3,123,503, 3–3–64, Cl. 134—41.
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Hungate, Ernest C., to Carrier Corp. Apparatus for treating air. 3,141,750, 7–21–64, Cl. 55—407.
Hungate, William. Mixing head. 3,128,994, 4–14–64, Cl. 259—4.
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Hungerford, Gordon P., to National Distillers and Chemical Corp. Apparatus for producing smooth, flat rolls of film. 3,119,150, 1–28–64, Cl. 18—12.
Hungerford, Philip C., Jr., and D. R. Tomko, to Curtiss-Wright Corp. Torque limiting coil or spring clutch mechanisms. 3,128,864, 4–14–64, Cl. 192—81.
Hungerford, Richard C., and F. E. Brown, to Barnes-Hind International, Inc. Cleansing device for contact lenses. 3,139,097, 6–30–64, Cl. 134—145.
Hungerford, Richard C., and F. E. Brown, to Barnes-Hind International, Inc. Lens washing machine. 3,139,098, 6–30–64, Cl. 134—145.
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Hunn, John L. Air filter for internal combustion engines. 3,144,315, 8–11–64, Cl. 55—274.
Hunsaker, Leo. Impact actuated asphalt compound checker or cutter. 3,131,683, 5–5–64, Cl. 125—40.
Hunsaker, Oral K., to The Dayton Malleable Iron Co. Brake drum construction. 3,147,828, 9–8–64, Cl. 188—218.
Hunsicker, Harold Y., and R. C. Lemon, to Aluminum Co. of America. Aluminum base alloy casting. 3,161,502, 12–15–64, Cl. 75—143.
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Hunt, Heman D., to E. I. du Pont de Nemours and Co. Reversal process of photography. 3,126,282, 3–24–64, Cl. 96—59.
Hunt, Joseph M., to Allegheny Ludlum Steel Corp. Frame members. 3,155,461, 11–3–64, Cl. 29—191.
Hunt, James G., to United States of America, Atomic Energy Commission. Tungsten tubing extrusion billet. 3,150,936, 9–29–64, Cl. 29—187.5.
Hunt, James L., J. Klesel, and H. E. Farintosh, to Canefco Ltd. Furnace. 3,133,513, 5–19–64, Cl. 110—173.
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Hunt, Lawrence G., and H. A. Wilmeth, to Kennecott Copper Corp. Dual-tube drill string for sample drilling. 3,155,-179, 11–3–64, Cl. 175—215.
Hunt, Llewellyn E. Means for concentrating solar energy. 3,118,437, 1–21–64, Cl. 126—270.
Hunt, Mack W., to Continental Oil Co. Alkylation of aromatic compounds. 3,129,264, 4–14–64, Cl. 260—671.
Hunt, Mack W., to Continental Oil Co. Amine boranes. 3,136,820, 6–9–64, Cl. 260—583.
Hunt, Mack W., to Continental Oil Co. Highly basic magnesium containing additive agent. 3,150,089, 9–22–64, Cl. 252—33.
Hunt, Mack W., G. L. Nield, and R. M. Tillman, to Continental Oil Co. Highly basic calcium-containing additive agent. 3,150,088, 9–22–64, Cl. 252—32.7.
Hunt, Max L. Rhythm rocker. 3,139,630, 7–7–64, Cl. 5—109.
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Hunt, Robert G., to Marco Products Co. Plumbers' snake. 3,149,480, 9–22–64, Cl. 64—2.
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Hunt, Stanley E., to Associated Electrical Industries Ltd. Magnetic deflection system providing plural exit ports for a beam of charged particles. 3,135,863, 6–2–64, Cl. 250—49.5.
Hunt, Thomas W., and J. E. Cox, to British Insulated Callender's Cables Ltd. Low induction, high voltage, bushing connections to tanked electrical apparatus. 3,122,606, 2–25–64, Cl. 174—152.
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Hunter, Byron A., to United States Rubber Co. Sulfonyl semicarbazides. 3,152,176, 10–6–64, Cl. 260—554.
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Hunter, Everett C., to Pittsburgh Steel Co. Apparatus for continuously drawing, knurling and coiling travelling wire. 3,163,058, 12–29–64, Cl. 80—4.
Hunter, Frank B., Jr., to North American Aviation, Inc. Space radiator and method for transferring heat. 3,158,-198, 11–24–64, Cl. 165—86.
Hunter, Harvey H., to Xerox Corp. Method of transferring a developed solid particulate image. 3,120,446, 2–4–64, Cl. 117—17.5.
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Hunter, William A., to Chrysler Corp. Anti-spit-back fill pipe. 3,133,564, 5–19–64, Cl. 141—286.
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Huntington, Morgan G., to Waterdrink, Inc. Heat exchanger for corrosive, erosive and fast settling slurries. 3,153,445, 10–20–64, Cl. 165—76.
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Hurst, Thomas B.: *See*—
Danko, John A., and Hurst. 3,153,402.
Frendberg, Arthur M., and Hurst. 3,136,298.

Hurst, Thomas L., and A. W. Turner, to A. E. Staley Mfg. Co. Method of refining amyloglucosidase. 3,117,063, 1–7–64, Cl. 195—31.
Hurst, Thomas L., and A. W. Turner, to A. E. Staley Mfg. Co. Method of producing starch conversion syrups. 3,137,639, 6–16–64, Cl. 195—31.
Hurt, Robert H. Height clearance indicator. 3,137,267, 6–16–64, Cl. 116—28.
Hurt, Robert J., and J. J. Forni, to D.K. Mfg. Co. Swivel coupling with split thrust ring. 3,148,897, 9–15–64, Cl. 285—98.
Hurt, William C., Jr., and D. F. Radke, to General Electric Co. Laminated magnetic core structure. 3,137,832, 6–16–64, Cl. 336—234.
Hurter, Alfred T., to Dominion Engineering Works Ltd. Calender stack. 3,154,008, 10–27–64, Cl. 100—162.
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Hurth, Carl, Maschinen-und Zahnradfabrik: *See*—
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Hurtig, Roy E., to FMC Corp. Control system for a press. 3,143,956, 8–11–64, Cl. 100—43.
Hurtle, Ralph L., to General Electric Co. Circuit protective devices and circuits. 3,117,203, 1–7–64, Cl. 200—113.
Hurtle, Ralph L., to General Electric Co. Non-arcing switch. 3,129,305, 4–14–64, Cl. 200—114.
Hurtle, Ralph L., to General Electric Co. Overcurrent protection device. 3,158,786, 11–24–64, Cl. 317—33.
Hurwitz, Henry, Jr., to General Electric Co. Electric power generation. 3,149,251, 9–15–64, Cl. 310—11.
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Husband, Reed J. Timed-cycle control. 3,131,334, 4–28–64, Cl. 317—141.
Husby, Marvin A., to Washington Scientific Industries, Inc. Deburring attachment for gear cutters. 3,129,638, 4–21–64, Cl. 90—1.4.
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Husek, Helen P., to Polaroid Corp. Azo dyes. 3,134,762, 5–26–64, Cl. 260—160.
Husek, Helen P., and M. S. Simon, to Polaroid Corp. Azo dyes. 3,134,763, 5–26–64, Cl. 260—160.
Hushebeck, Henry R., to Joseph Bancroft & Sons Co. Fabric resination. 3,139,322, 6–30–64, Cl. 8—116.3.
Huskey, Lloyd L.: *See*—
Pachmayr, Frank A., and Huskey. 3,153,500.
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Husky Mfg., Inc.: *See*—
Hyskell, Ronald E. 3,155,011.
Husock, Bernard, to Harco Corp. Self-regulating cathodic protection system. 3,143,670, 8–4–64, Cl. 307—95.
Husome, Robert G., to Barry-Wehmiller Machinery Co. Photoresponsive circuit for bottle inspection. 3,123,715, 3–3–64, Cl. 250—214.
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Ojelid, Goran A. R. 3,129,312.
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Huss, John P.: *See*—
Meyer, Burtis W., and Huss. 3,120,614.
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Huss, William S.: *See*—
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Hussong, Ralph V., E. H. Marth, and D. G. Vakaleris, to National Dairy Products Corp. Manufacture of cottage cheese. 3,117,870, 1–14–64, Cl. 99—116.
Hussong, Ralph V., and M. Purko, to Dairy Products Corp. Manufacturing Swiss cheese using propronibacterium shermanii. 3,159,490, 12–1–64, Cl. 99—116.
Husted, William D. Article support. 3,163,392, 12–29–64, Cl. 248—223.
Hustinx, Edmond. Liquid pump having gas-cushioned bearing means. 3,157,128, 11–17–64, Cl. 103—87.
Huston, Albert J. Method of making a protective sheath for boat hulls. 3,143,453, 8–4–64, Cl. 156—267.
Huston, Dean M.: *See*—
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Huston, Paul O., and W. T. Fleming, to The Singer Co. Vacuum cleaner. 3,142,083, 7–28–64, Cl. 15—324.
Huston, Paul O., and W. T. Fleming, to The Singer Co. Vacuum cleaner with nozzle height adjusting mechanism. 3,163,439, 12–29–64, Cl. 280—43.17.
Huston, William D., to American-Standard Controls Division, a division of American Radiator & Standard Sanitary Corp. Cluster gauge. 3,161,062, 12–15–64, Cl. 73—431.
Huston, William D., to American Radiator & Standard Sanitary Corp. Instrument illuminating means. 3,162,375, 12–22–64, Cl. 240—8.16.
Huston, William D. Pressure gauge. 3,163,046, 12–29–64, Cl. 73—418.
Husum, Charles W., to Owens-Illinois Glass Co. Method for manufacturing gasketed closure cap blank for glass containers. 3,131,081, 4–28–64, Cl. 117—45.
Huszar, Kalman Z. Simplified means for producing convolutions in wire. 3,126,037, 3–24–64, Cl. 140—105.
Huszar, Kalman Z. Mechanism, including feed means therefor for rapidly producing a plurality of bodies of revolution. 3,153,261, 10–20–64, Cl. 18—5.
Hutch, Thomas E. Extrusion press. 3,136,421, 6–9–64, Cl. 207—2.
Hutchens, Charles T. Tandem suspension for eliminating brake-hopping. 3,123,377, 3–3–64, Cl. 280—104.5.
Hutchens, Charles T. Hydro-pneumatic suspension system for vehicle. 3,154,318, 10–27–64, Cl. 280—104.
Hutcheon, Charles F. Snap action pull tabs. 3,135,409, 6–2–64, Cl. 215—51.
Hutcheon, Keith F., to C.A.V. Ltd. Liquid fuel injection pumps. 3,161,133, 12–15–64, Cl. 103—2.
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Hutchings, Donald M. Gaff guard. 3,135,352, 6–2–64, Cl. 182—221.
Hutchings, Le Roi E., to The Pure Oil Co. Alkylation processes and stabilization of product. 3,138,645, 6–23–64, Cl. 260—683.61.
Hutchings, Le Roi E., and W. A. Krewer, to The Pure Oil Co. Apparatus for handling volatile liquids and determining volatile contaminants. 3,120,752, 2–11–64, Cl. 73—53.
Hutchings, Le Roi E., and W. L. Fierce, to The Pure Oil Co. Preparation of mono-unsaturated aliphatic nitriles. 3,154,-572, 10–27–64, Cl. 260—465.3.
Hutchins, Charles K., Jr.: *See*—
Munn, Paul S., Hutchins, and Woodward. 3,152,472.
Hutchins, Frieda D. Surgical bandage. 3,125,093, 3–17–64, Cl. 128—283.
Hutchins, Kenneth A., B. S. Harrington, Sr., F. M. Adkins, and R. W. Illsley, to Chemetron Corp. Stuffing apparatus for viscous materials. 3,162,894, 12–29–64, Cl. 17—35.
Hutchins, Peter D. T., and P. T. Stainforth, to Imperial Chemical Industries Ltd. Transportable container. 3,162,-331, 12–22–64, Cl. 222—184.
Hutchins, Thomas B., IV, to Tektronix, Inc. Large area connection for semiconductors and method of making. 3,153,581. 10–20–64, Cl. 29—194.
Hutchins, Thomas B., IV, W. C. Myers, and J. F. Delord, to Tektronix, Inc. Electrical probe apparatus for measuring the characteristics of semiconductor material. 3,134,077, 5–19–64, Cl. 330—2.
Hutchinson, Allen R. Cultivator drive assembly. 3,141,-341, 7–21–64, Cl. 74—11.
Hutchinson, Allen R. and W. A., deceased (by J. M. Hutchinson, administratrix). Cultivator assembly. 3,127,940, 4–7–64, Cl. 172—79.
Hutchinson, Clyde E. Aquarium cleaning device. 3,158,104, 11–24–64, Cl. 103—148.
Hutchinson (Compagnie Nationale du Caoutchouc) Etablissements: *See*—
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Hutchinson, David N., to The Bell Telephone Co. of Canada. Auction bidding telegraph systems. 3,124,644, 3–10–64, Cl. 178—3.
Hutchinson, Gordon C. Bacteriostatic compositions and methods of treating fabrics therewith. 3,125,487, 3–17–64, Cl. 167—38.6.
Hutchinson, Herman R. Container seal structure. 3,139,131, 6–30–64, Cl. 150—.5.
Hutchinson, Jean M.: *See*—
Hutchinson, Allen R. and W. A. 3,127,940.
Hutchinson, Jesse B. Material handling devices. 3,137,250, 6–16–64, Cl. 108—29.
Hutchinson, William A.: *See*—
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Hutchison, Cyril P., and J. L. Eberly, to The Firestone Tire & Rubber Co. Fuel cells and manufacture thereof. 3,129,014, 4–14–64, Cl. 280—5.
Hutchison, Frank C., and N. M. Fales, to United States of America, Army. Set-back device for fuze. 3,117,522, 1–14–64, Cl. 102—78.
Hutchison, James R. Means and method of locating rocker arms on a rocker shaft. 3,138,146, 6–23–64, Cl. 123—90.
Hutchison, Merle: *See*—
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Hutchison, Merle, O. L. Riggs, Jr., and J. D. Sudbury, to Continental Oil Co. Electrolytic bridge assembly for the anodic passivation of metals. 3,126,328, 3–24–64, Cl. 204—196.
Hutchison, Merle, O. L. Riggs, Jr., and J. D. Sudbury, to Continental Oil Co. Electrolytic bridge assembly for the anodic passivation of metals. 3,152,058, 10–6–64, Cl. 204—196.
Hutchison, Ralph W. Staging bracket. 3,148,857, 9–15–64, Cl. 248—247.
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Hutchison, Robert W. Hospital signal device. 3,122,731, 2–25–64, Cl. 340—311.
Hutchison, Williston E., and C. R. Hill. Deep submergence power supply. 3,160,525, 12–8–64, Cl. 136—6.
Huther, Edmund, to K. Ziegler. New organic zinc compounds and a process for the production of these organic zinc compounds together with organic aluminium monohalides. 3,124,604, 3–10–64, Cl. 260—429.9.
Hutsell, Eugene C. Electric jump-rope game. 3,130,970, 4–28–64, Cl. 273—85.

Hutshing, Charles K., Jr. Corrosion arrester for use in fire extinguishers. 3,153,453, 10–20–64, Cl. 169—30.
Hutson, Andrew R., to Bell Telephone Laboratories, Inc. Circuit element. 3,145,354, 8–18–64, Cl. 333—30.
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Ioakimidis, Anthony M., and Hutson. 3,156,775.
Hutson, Jearld L., and F. B. Hoff, Jr., to Hunt Electronics Co. Multiple junction semiconductor device. 3,123,750, 3–3–64, Cl. 317—235.
Hutson, Thomas, Jr., and R. V. Denton, to Phillips Petroleum Co. Process and catalyst for the alkylation of aromatic hydrocarbons. 3,123,650, 3–3–64, Cl. 260—671.
Hutson, Thomas, Jr., and R. V. Denton, to Phillips Petroleum Co. Poly-ethyl benzenes and their derivatives. 3,136,823, 6–9–64, Cl. 260—667.
Hutt, Philip, to General Electric Co. Multiple pushbutton switch with sliders operating switch arms. 3,127,482, 3–31–64, Cl. 200—5.
Hutt, Philip, to General Electric Co. Pushbutton switch with selectively lighted actuators. 3,163,739, 12–29–64, Cl. 200—167.
Huttenbach, Dirk E., and E. F. Schaefer, to Owens-Illinois Glass Co. Process for forming a grit-blasted and methyl methacrylate-epoxy resin coated glass surface. 3,147,136, 9–1–64, Cl. 117—54.
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Huttenwerk Salzgitter Aktiengesellschaft: *See—*
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Hutter, Frank A., and E. J. Mallek, ⅓ to C. G. Hutter. Holding means for sheet material. 3,159,281, 12–1–64, Cl. 211—45.
Hutter, James F., and L. Kelly, to K & H Equipment Ltd. Hydraulically controlled air cylinder. 3,146,680, 9–1–64, Cl. 92—12.
Hutter, James F., and L. Kelly, to K & H Equipment Ltd. Hydraulically controlled air leg structure. 3,149,541, 9–22–64, Cl. 91—422.
Hutter, Victor: *See—*
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Hutter, Wilhelm, to Niederrheinische Maschinenfabrik Becker & Van Hullen. Device for charging and unloading multi-plate presses. 3,129,827, 4–21–64, Cl. 214—16.4.
Huttner, William L.: *See—*
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Hutto, Frank C., to Ford Motor Co. Fabricated piston ring. 3,150,877, 9–29–64, Cl. 277—213.
Hutto, John F., and K. E. Walker, to Phillips Petroleum Co. Addition of solids to high vapor pressure liquid. 3,139,407, 6–30–64, Cl. 252—429.
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Hutton, Philip C., to Silentbloc Ltd. Resilient joints for suspension systems. 3,117,810, 1–14–64, Cl. 287—87.
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Hutzler, Robert H.: *See—*
Hayworth, Curtis B., Hutzler, Michener, and Sobel. 3,160,473.
Huwe, Edgar W. Windlass attachment for tractors. 3,126,-168, 3–24–64, Cl. 242—86.5.
Huxley, Thomas C., III, to H. A. Thompson. Respirator apparatus. 3,120,228, 2–4–64, Cl. 128—30.
Huyck Corp.: *See—*
Christie, Donald R., and Schiff. 3,149,003.
Lee, Charles A. 3,150,036.
Lee, Charles A. 3,150,037.
Hvam, Hjalmar. Front throw release. 3,147,986, 9–8–64, Cl. 280—11.35.
Hwa, Charles C. L., and D. W. McNeil, to Owens-Corning Fiberglas Corp. Method for leaching a polyurethane foam. 3,125,541, 3–17–64, Cl. 260—2.5.
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Hyde, James F., to Dow Corning Corp. Amine salts of phosphoric acid and amine salts of carboxylic acids as silanol condensation catalysts. 3,160,601, 12–8–64, Cl. 260—46.5.
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Hyde, Nancy L., and B. R. Howard. Disposable catamenial device. 3,156,241, 11–10–64, Cl. 128—289.
Hyden, Irwin F. Brass voice formant system for electronic organ. 3,126,436, 3–24–64, Cl. 84—1.1.
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Farkas, George B., Korin, and Milligan. 3,145,680.
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Adams, Frederick J. 3,153,948.
Hyer, James P., and J. J. Santoleri, to Thermal Research & Engineering Corp. Submerged hot gas heat exchanger. 3,138,150, 6–23–64, Cl. 126—360.
Hyer, Marina. Neck and face dry heat applicator. 3,134,891, 5–26–64, Cl. 219—211.
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Rarick, Maurice S., Jarvis, and Rupp. 3,132,031.
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Hyink, Roy, H. Kitscha, and J. A. Quaal, to Cutler-Hammer, Inc. Reversible contact molded frame relay. 3,129,304, 4–14–64 Cl. 200—104.
Hykes, Paul G., to The Budd Co. Method and means for trailer axle alignment. 3,162,950, 12–29–64, Cl. 33—46.
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Gaeta, Lawrence E. 3,122,476.
Hyman, Abraham. Monitor for mechanical respirator. 3,120,843, 2–11–64, Cl. 128—30.
Hyman, Jerome, to Tension Envelope Corp. Envelope for enclosing bank statements and the like. 3,140,040, 7–7–64, Cl. 229—68.
Hyman, Joseph B., S. Kordzinski, and C. T. Bills, to Catalin Corp. of America. Liquid resinous composition comprising melamine formaldehyde condensate and nitro comopunds. 3,131,157, 4–28–64, Cl. 260—29.4.
Hyman, Jules K. Adjustable stroke mechanism. 3,147,695, 9–8–64, Cl. 100—257.
Hyman, Julius, D. C. Morrison, and H. P. C. Lee, to Fundamental Research Co. Purification of 1,6-dinitronaphthalene and products therefrom. 3,132,184, 5–5–64, Cl. 260—645.
Hyman, Robert A., and A. D. Thomas, to International Standard Electric Corp. Bistable circuit comprising a negative resistance device in combination with a photovoltaic element. 3,149,311, 9–15–64, Cl. 340—173.
Hyman, Samuel J., to The Hallicrafters Co. Automatic gain control circuit utilizing voltage variable capacitor. 3,151,-302, 9–29–64, Cl. 330—145.

Hyman, Sidney. Ladies handbags. 3,121,452, 2–18–64, Cl. 150—28.
Hynd, Irvin W. Electrical control systems. 3,136,922, 6–9–64, Cl. 317—13.
Hyne, Graham E., to Her Majesty the Queen, in right of Canada, as represented by the Minister of National Defence. Heading system. 3,119,189, 1–28–64, Cl. 33—222.
Hynes, Dibrell P., 50% to E. E. Howe, 25% to R. W. Howe, and 25% to M. H. Frisbey. Tube coupling having sealing and anchoring means. 3,140,107, 7–7–64, Cl. 285—340.
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Hynes, Lee P., to Hynes Electric Heating Co. Heater. 3,136,-885, 6–9–64, Cl. 219—382.
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Olson, John E. 3,147,872.
Olson, John E., and Shoemaker. 3,139,301.
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Camras, Marvin. 3,158,670.
Camras, Marvin. 3,158,695.
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Bohn, Donald I. 3,162,276.
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Bowman, David F. 3,130,380.
Bowman, David F. 3,148,370.
Brumfield, John C. 3,125,651.
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Caswell, Arthur S. 3,139,494.
Chumakov, Walter V. 3,161,820.
Craig, James C. 3,158,714.
Davis, Russell S. 3,120,629.
Edmunds, William H. 3,120,628.
Edmunds, William H. 3,150,290.
Edmunds, William H. 3,152,287.
Farnsworth, George H. 3,158,789.
Field, Everett J., and Mooney. 3,152,286.
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Irons, Henry R., to United States of America, Navy. Binary counter using cores, transistors and diodes. 3,130,320, 4–21–64, Cl 307—88.
Irons, Jeffery D., to Union Tank Car Co. Tray assembly. 3,136,826, 6–9–64, Cl. 261—22.
Irons, Jeffery D., to Union Tank Car Co. Flame arrestor burner. 3,162,239, 12–22–64, Cl. 158—112.
Irons, Jeffery D., to Union Tank Car Co. Contactor for treating fluids. 3,162,700, 12–22–64, Cl. 261—114.
Irvin, Howard B., and J. W. Davidson, to Phillips Petroleum Co. Level control with fluid actuated pump. 3,123,004, 3–3–64, Cl. 103—16.
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Irving, Frank J., to The Irving Co. Vibratory machine suspension. 3,146,996, 9–1–64, Cl. 259—1.
Irving, Keith. Permanent wick structure. 3,162,030, 12–22–64, Cl. 67—70.
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Johnson, John H., and Irwin. 3,155,010.
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Ludlow, Edmund, and Irwin. 3,146,851.
Irwin, George, to Imperial Camera Corp. Flash bulb holder and camera assembly. 3,118,613, 1–21–64, Cl. 240—1.3.
Irwin, George W., and E. H. Mumford, to Owens-Illinois Glass Co. Turret locking mechanism. 3,163,263, 12–29–64, Cl. 188—151.
Irwin, Harry B., to Dayton Formold Inc. Production of plastic foam articles. 3,132,417, 5–12–64, Cl. 29—433.
Irwin, Herbert G. Gaseous-condiment generator. 3,117,510, 1–14–64, Cl. 99—260.
Irwin, Herbert G. Gaseous-condiment generator. 3,139,023, 6–30–64. Cl. 99—260.
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Irwin, Warren R. Ruling device. 3,133,354, 5–19–64, Cl. 33—80.
Irwin, William R. Alley and missile game combination. 3,138,384, 6–23–64, Cl. 273—108.
Irwin, William R. Augmented air supply. 3,149,662, 9–22–64, Cl. 158—28.
Isaac, Peter. Combination ski boot holder and torque indicators. 3,156,114, 11–10–64, Cl. 73—133.
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Isaacs, Robert O., to Flex-O-Lators, Inc. Spring base for upholstered seat backs. 3,131,924, 5–5–64, Cl. 267—107.
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Isenberg, Gustav, and F. Klapdohr, to Demag Aktiengesellschaft. Lifting apparatus for earth boring equipment. 3,157,065, 11–17–64, Cl. 74—661.
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Ishai, Orl, and E. Bousso, to Technion Research & Development Foundation, Ltd. Wire tensioning device. 3,151,842, 10–6–64, Cl. 254—67.

Ishibashi, Akira, to Nippon Reizo Kabushiki Kaisha. Prefabricated revolving cylindrical hen-house. 3,126,868, 3–31–64, Cl. 119—21.
Ishida, Yasuhiro, to The Agency of Industrial Science and Technology. Process of manufacturing a precise non-spherical surface. 3,142,140, 7–28–64, Cl. 51—284.
Ishida, Yasunari, K. Motizuki, M. Uchida, K. Wakita, and Y. Nakao, to Takeda Chemical Industries, Ltd. Method for preparing 5′-nucleotides. 3,163,586, 12–29–64, Cl. 195—28.
Ishihara, Tsunao, to Continental Oil Co. Towline fixture. 3,152,571, 10–13–64, Cl. 114—235.
Ishii, Shunji, and G. Hayashi, to Nippon Kokan Kabushiki Kaisha. Ship for the transportation of high temperature molten material. 3,147,728, 9–8–64, Cl. 114—74.
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Ishimoto, Kunio, and K. Nakamura, to Nippon Electric Co. Ltd. Transistor amplifying and rectifying circuit. 3,120,-616, 2–4–64, Cl. 307—88.5.
Ishimura, Kazukiyo, to Nippon Gakki Seizo Kabushiki Kaisha. Sound producing system. 3,157,247, 11–17–64, Cl. 181—27.
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Ishler, William E., and E. F. Apple, to General Electric Co. Method for improving the performance of calcium halophosphate phosphors. 3,124,539, 3–10–64, Cl. 252—301.4.
Ishoy, Albert D., and W. F. Scott, to Whirlpool Corp. Single valve, double cam actuator pneumatic system for a laundry appliance. 3,151,067, 9–29–64, Cl. 210—144.
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Iskenderian, Haig P., to United States of America, Atomic Energy Commission. Breeder reactor core with alternate zones of depleted and enriched fuel. 3,141,827, 7–21–64, Cl. 176—17.
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Ismach, Aaron, to United States of America, Army. Intradermal nozzle for jet injection devices. 3,140,713, 7–14–64, Cl. 128—173.
Isnardi, Alfred F., S. J. Chup, and W. M. Weibel, to Specialties Development Corp. Unit for supporting containers storing fluid medium under pressure. 3,148,800, 9–15–64, Cl. 222—3.
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Isreeli, Jack, to Technicon Chromatography Corp. Variable gradient device. 3,137,480, 6–16–64, Cl. 259—63.
Isreeli, Jack, to Technicon Instruments Corp. Spectral-flame burner apparatus and spectral-flame burners therefor. 3,137,759, 6–16–64, Cl. 88—14.
Issbrücker, Kurt P., to VEB Massindustrie Werdau. Pressure regulator for pneumatic measuring apparatus. 3,136,-329, 6–9–64, Cl. 137—338.
Issott, John W., to Calumet & Hecla, Inc. Apparatus for producing longitudinal, internal, and integral fins in tubing. 3,118,328, 1–21–64, Cl. 80—11.
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Nielsen, Jack N. 3,119,576.
Welchman, William G. 3,134,895.
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Akita, Tadayoshi, Ohta, and Ito. 3,155,322.
Ito, Yoshikazu, and R. Endoh, to Toyo Rayon Kabushiki Kaisha. Method of producing cycloalkanoneoxime hydrochlorides. 3,129,155, 4–14–64, Cl. 204—162.
Ito, Yosoji, and S. Okabe, to Teikoku Hormone Mfg. Co., Ltd. Method of producing a substance having new strong physiological actions from human or cattle saliva. 3,153,616, 10–20–64, Cl. 167—74.
Itoi, Kazuo, to Kurashiki Rayon Co., Ltd. Process for producing polyvinyl alcohol-vinylamine copolymers. 3,117,-951, 1–14–64, Cl. 260—91.3.
Itria, Oswald A., to Texaco Inc. Method of determining shear wave velocities. 3,127,950, 4–7–64, Cl. 181—.5.
Ittlinger, Rudolf, to International Minerals & Chemical Corp. Process for the clarification of an acidic inorganic phosphatic solution. 3,129,170, 4–14–64, Cl. 210—54.
Ittlinger, Rudolf, to International Minerals & Chemical Corp. Method of clarifying acidic phosphatic solutions. 3,141,-734, 7–21–64, Cl. 23—165.
Ivan, Josef. Surface finishing apparatus. 3,138,998, 6–30–64, Cl. 90—12.
Ivan, Joseph S., L. A. Gould, and R. C. Austin, to The Dow Chemical Co. Metal fabrication. 3,129,504, 4–21–64, Cl. 29—529.
Ivanto, Osmo J. Device used in a thread twisting machine. 3,120,093, 2–4–64, Cl. 57—86.
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Arcudi, Joseph L., and David. 3,127,718.
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Ives, Edwin K., to Standard Oil Co. Ammonium nitrate propellants containing amine salts of nitrosalicyclic acid as combustion catalyst. 3,154,449, 10–27–64, Cl. 149—19.
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Ivey, John S., to Borg-Warner Corp. Transmission controls. 3,118,320, 1–21–64, Cl. 74—472.
Ivey, John S., to Borg-Warner Corp. Transmission controls. 3,136,175, 6–9–64, Cl. 74—472.
Ivey, John S., to Borg-Warner Corp. Transmission mechanism. 3,146,630, 9–1–64, Cl. 74—472.
Ivey, Lee R. Mobile washer for laboratory animal cages. 3,163,149, 12–29–64, Cl. 119—15.
Ivie, Roger G. Work-gripping wrench socket. 3,119,290, 1–28–64, Cl. 81—128.
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Iwai, Ryoichi, to Shinko Electric Co., Ltd. Fast response field magnet D.C. dynamo-electric machine. 3,147,393, 9–1–64, Cl. 310—254.
Iwai, Yasuaki. Braid for rugs. 3,153,366, 10–20–64, Cl. 87—7.
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Jablonski, Edward R., and H. A. Van Dusen, Jr., to McGraw-Edison Co. Pole top mounted luminaire. 3,156,418, 11–10–64, Cl. 240—84.
Jablonsky, Erich, to Zahnradfabrik Friedrichshafen, Aktiengesellschaft. Crank mechanism for manual or power boost steering arrangements. 3,118,310, 1–21–64, Cl. 74—105.
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Jack, Lovice S.: *See*—
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Jack, Robert K., Jr., to Midland-Ross Corp. Diaphragm. 3,135,173, 6–2–64, Cl. 92—103.
Jack, William, Jr., to Baker Perkins Jaxons Ltd. Folding machine. 3,148,875, 9–15–64, Cl. 270—80.
Jack, William A., and G. W. Landgraf, to Johns-Manville Corp. Method of cutting patterns in acoustical tile. 3,117,403, 1–14–64, Cl. 51—311.
Jack, William A., and G. W. Landgraf, to Johns-Manville Corp. Sound absorber. 3,160,226, 12–8–64, Cl. 181—33.
Jacke, Raymond E., to Reynolds Metals Co. Reclosable cartons and blanks therefor. 3,128,934, 4–14–64, Cl. 229—14.
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Jackson, Andrew, B. M. Petroff, and C. B. Sparkman, to Jackson Exit Device Corp. Panic exit lock. 3,123,387, 3–3–64, Cl. 292—21.
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Taylor, Raymond G., Jr., and Lee. 3,141,688.
Jackson, Byron L., and C. E. McCurry, to Robertshaw Controls Co. Carton sealing apparatus. 3,158,869, 12–1–64, Cl. 1—104.
Jackson, Cadores M. Umbrella shield. 3,151,621, 10–6–64, Cl. 135—16.
Jackson, Carey B.: *See*—
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Jackson, Carroll R., Sr., ⅓0 to P. A. Mackin. Block making machine. 3,153,833, 10–27–64, Cl. 25—41.
Jackson, Charles A., to Autotronics, Inc. Torque-measuring device. 3,153,930, 10–27–64, Cl. 73—134.
Jackson, Charles H., to Hi-Shear Corp. Squib. 3,135,200, 6–2–64, Cl. 102—28.
Jackson, Charles Q., F. D. Larmore, and J. Y. Edinger, to Evans Harbor Products Co. Apparatus for assembling plywood units. 3,122,750, 3–3–64, Cl. 1—106.
Jackson, Charlie P. Portable numismatic display case. 3,140,132, 7–7–64, Cl. 312—125.
Jackson, Curtis E., to The Daven Co. Electrical brush assembly. 3,123,732, 3–3–64, Cl. 310—247.
Jackson, Curtis E., to The Daven Co. Alternating current synchronous switch. 3,134,864, 5–26–64, Cl. 200—24.
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Jackson, Donald R. P., to Molins Machine Co. Ltd. Device for feeding articles from the bottom of a stack. 3,127,056, 3–31–64, Cl. 221—262.
Jackson, Donald R. P., to Molins Machine Co. Ltd. Apparatus for securing adhesive labels to packets. 3,151,014, 9–29–64, Cl. 156—75.
Jackson, Donald R. P., to Molins Machine Co. Ltd. Apparatus for applying strips to paper and like blanks. 3,152,945, 10–13–64, Cl. 156—522.
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Jackson, Andrew, Petroff, and Sparkman. 3,123,387.
Jackson, Frank R., and J. W. Wilson, to Superflexit Ltd. Device for axially compressing helically convoluted conduits. 3,121,942, 2–25–64, Cl. 29—270.
Jackson, Frank R., and J. W. Wilson, to Superflexit Ltd. End fittings for flexible hoses, conduits or the like. 3,156,491, 11–10–64, Cl. 285—243.
Jackson, George W. Scaffolding structure. 3,131,784, 5–5–64, Cl. 182—229.
Jackson, George W., and J. F. Pribonic, to General Motors Corp. Control for pneumatic suspension system. 3,135,524, 6–2–64, Cl. 280—6.1.
Jackson, Gerald D. Stock exchange game. 3,163,423, 12–29–64, Cl. 273—134.
Jackson, Gerald J., Jr.: *See*—
Elowe, Louis N., and Jackson. 3,125,491.
Jackson, Glenn W.: *See*—
Luce, Walter A., Jackson, Ryder, and Fontana. 3,129,095.
Jackson, Harold E., to Tecalemit Ltd. Lubricant injectors. 3,119,463, 1–28–64, Cl. 184—7.
Jackson, Harold E., to Tecalemit Ltd. Lubrication systems for vehicles and machines. 3,139,952, 7–7–64, Cl. 184—7.
Jackson, Harold E., to Tecalemit Ltd. Oil burner assembly with air/oil rate adjusting means. 3,144,075, 8–11–64, Cl. 158—76.
Jackson, Harvey C. Water ski construction. 3,145,399, 8–25–64, Cl. 9—310.
Jackson, Harvey W. Latch device for doors. 3,124,378, 3–10–64, Cl. 292—5.
Jackson, James A., and P. F. Holder, to R-N Corp. Ring-roller pressure molding of metal powders and the like. 3,124,837, 3–17–64, Cl. 18—9.
Jackson, James A. and W. L., 13% to D. F. Oderkirk. Catcher's mitt. 3,141,173, 7–21–64, Cl. 2—19.
Jackson, James A. and W. L. Self-propelled dart. 3,162,444, 12–22–64, Cl. 273—106.5.
Jackson, James A. and W. L. One-piece balloon valve and holder. 3,162,974, 12–29–64, Cl. 46—32.
Jackson, Jesse A. Linear footage meter. 3,145,294, 8–18–64, Cl. 235—151.
Jackson, Jesse M., to Bell Telephone Laboratories, Inc. Means for supplying pressurized dry air to an enclosure and cable systems embodying such means. 3,144,314, 8–11–64, Cl. 55—179.
Jackson, John E. Spudding anchor. 3,131,038, 4–28–64, Cl. 48—193.
Jackson, John G. W.: *See*—
Roberts, Colin S., and Jackson. 3,119,287.
Jackson, John K. Coating machine for applying a fluid composition to a workpiece. 3,155,541, 11–3–64, Cl. 118—203.

Jackson, John M.: *See*—
Carpenter, Victor W., and Jackson. 3,130,091.
Carpenter, Victor W., Jackson, and Squibb. 3,152,021.
Hoffman, Henry T., Jr., and Jackson. 3,132,570.
Kohler, Dale M., and Jackson 3,130,095.

Jackson, John M., to Armco Steel Corp. Non-directional oriented silicon-iron. 3,130,090, 4–21–64, Cl. 148—31.55.

Jackson, Julius, to E. I. du Pont de Nemours and Co. Modified hydrous metal oxide pigments and the preparation thereof. 3,136,648, 6–9–64, Cl. 106—302.

Jackson, Julius, and W. J. Marshall, to E. I. du Pont de Nemours and Co. Process for preparing quinacridone pigments. 3,148,191, 9–8–64, Cl. 260—279.

Jackson, Liam R., to The Budd Co. Insulating structure. 3,151,712, 10–6–64, Cl. 189—34.

Jackson Mfg. Co.: *See*—
Garber, Roy W. 3,157,316.

Jackson, Martin A., to Van Zelm Associates Inc. Metal bending compression shock absorber. 3,132,721, 5–12–64, Cl. 188—1.

Jackson, Maurice R.: *See*—
Pflager, Dennis L., and Jackson. 3,124,649.

Jackson, Nolan C., to Wichita Precision Tool Co., Inc. Machine for finishing trousers and the like. 3,160,335, 12–8–64, Cl. 223—73.

Jackson, Norman G. Roof construction. 3,133,377, 5–19–64, Cl. 50—19.

Jackson, Paul D.: *See*—
Anderson, Donald V., and Gillman. 3,149,371.

Jackson, Ralph N.: *See*—
Scurlock, John T. 3,137,307.

Jackson, Raymond P.: *See*—
Cupery, Martin E., Jackson, and Wright. 3,133,829.

Jackson, Richard L. Circle-making attachment for ruler. 3,128,555, 4–14–64, Cl. 33—27.

Jackson, Richard N., and D. A. Rudd, to North American Philips Co., Inc. Beam-indexing picture display system with two sets of indexing stripes. 3,154,715, 10–27–64, Cl. 315—10.

Jackson, Robert C., and D. J. Lamb, to Monsanto Co. Filament yarn winding apparatus. 3,160,357, 12–8–64, Cl. 242—18.

Jackson, Robert G.: *See*—
Rigby, Richard, and Jackson. 3,136,135.

Jackson, Robert W.: *See*—
Beal, Philip F., and Jackson. 3,147,248.

Jackson, Samuel H., to Kings Electronics, Inc. Gripper for cables and the like. 3,135,033, 6–2–64, Cl. 24—122.3.

Jackson, Stephen A. Methods of making dressmaking forms or dummies. 3,116,858, 1–7–64, Cl. 223—68.

Jackson, Theodore A.: *See*—
Irwin, Samuel N., McGregor, Goetsch, and Jackson. 3,148,615.

Jackson Vibrators, Inc.: *See*—
Derler, Charles J. 3,119,346.

Jackson, Walter L.: *See*—
Jackson, James A. and W. L. 3,141,173.
Jackson, James A. and W. L. 3,162,444.
Jackson, James A. and W. L. 3,162,974.

Jackson, Warren, Jr.: *See*—
Burhans, Ralph W., Jackson, and Stevko. 3,134,017.

Jackson, Wayne O.: *See*—
Tompkins, Sherman A., and Jackson. 3,152,034.

Jackson, Wilbur F., and J. W. Wright, to Robertshaw Controls Co. Multiple burner heating system. 3,138,194, 6–23–64, Cl. 158—135.

Jackson, Wilbur F., and E. B. Scharer, to Robertshaw Controls Co. Target-type pilot burner. 3,155,143, 11–3–64, Cl. 158—113.

Jackson, Wilbur F., and J. W. Wright, to Robertshaw Controls Co. Thermally actuated valve. 3,162,366, 12–22–64, Cl. 236—48.

Jackson, William H., to The Udylite Corp. Rotary tiltable drum dryer. 3,121,621, 2–18–64, Cl. 34—126.

Jackson, William H., to The Udylite Corp. Electroplating barrel. 3,153,624, 10–20–64, Cl. 204—213.

Jackson, Winston J., Jr., J. R. Caldwell, and E. H. Hill, to Eastman Kodak Co. 2,3-dibromohexahydro-4,7-methanoindan-5- YL acrylate and methacrylate and polymers thereof. 3,143,535, 8–4–64, Cl. 260—85.5.

Jacksonville Blow Pipe Co.: *See*—
Montgomery, William T. S. 3,163,133.

Jacob, Alex: *See*—
Kern, Fritz, Jacob, and Hooper. 3,133,788.

Jacob, Herbert: *See*—
Enk, Eduard, Jacob, and Nickl. 3,129,059.

Jacob, Herbert, to Wacker-Chemie G.m.b.H. Critical cooling in crucible free drawing process to produce low melting materials of highest purity. 3,157,537, 11–17–64, Cl. 148—1.6.

Jacob, John C. Snow plow attachment for lawn mowers. 3,142,913, 8–4–64, Cl. 37—43.

Jacob, Lawrence N., to Sun Oil Co. Indicator paper. 3,139,328, 6–30–64, Cl. 23—253.

Jacob, Lawrence N., to Sun Oil Co. Sweetening hydrocarbons. 3,144,403, 8–11–64, Cl. 208—207.

Jacob, Robert M., and J. G. Robert, to Societe des Usines Chimiques Rhone-Poulenc. Phenthiazine derivatives. 3,130,194, 4–21–64, Cl. 260—243.

Jacob, Robert M., and J. G. Robert, to Rhone-Poulenc S.A. Phenthiazine derivatives and processes for their preparation. 3,150,129, 9–22–64, Cl. 260—243.

Jacobaeus, Anton C.: *See*—
Bergmann, Anders K., Jacobaeus, and Scheftelowitz. 3,159,720.

Jacobi, Edward N., to Briggs & Stratton Corp. Weather seal for cylinder lock mechanism. 3,122,013, 2–25–64, Cl. 70—455.

Jacobi, Edward N., to Briggs & Stratton Corp. Automobile lock having swingable shaft. 3,143,874, 8–11–64, Cl. 70—379.

Jacobi, Edward N., to Briggs & Stratton Corp. Swinging key lever tumbler lock. 3,148,526, 9–15–64, Cl. 70—366.

Jacobi, Frederick P. Exercising apparatus. 3,156,465, 11–10–64, Cl. 272—57.

Jacobi, Richard, to Deutsche Tafelglas Aktiengesellschaft Detag. Television apparatus with safety pane. 3,121,773, 2–18–64, Cl. 178—7.82.

Jacobs, Albert J.: *See*—
Rydberg, George E., A. J. and P. C. Jacobs. 3,125,031.

Jacobs, Bernard, to Sperry Rand Corp. Method of making semiconductor devices. 3,117,067, 1–7–64, Cl. 204—141.

Jacobs, Charles D. Variable speed drive mechanism for golf carts. 3,123,173, 3–3–64, Cl. 180—74.

Jacobs, Frank, Jr., and W. H. Savage, Jr. Electric discharge devices. 3,141,296, 7–21–64, Cl. 60—35.5.

Jacobs, Gerhard, and G. Siess. Slit width adjustment means for optical instruments. 3,160,697, 12–8–64, Cl. 88—14.

Jacobs, Gordon A.: *See*—
Kearney, Thomas J., McGee, Young, and Jacobs. 3,120,853.

Jacobs, Gordon L. Animal watering fountain. 3,144,003, 8–11–64, Cl. 119—75.

Jacobs, Günter: *See*—
Reichold, Ernst, Jacobs, and Bockmann. 3,155,637.

Jacobs, Harold: *See*—
Warner, Samuel. 3,156,037.

Jacobs, Heinz, J. Claesgens, and F. Heyn, to Industrie-Companie Kleinewefers Konstruktions- und Handelsgesellschaft m.b.H. Cast heat exchanger tube assembly. 3,150,714, 9–29–64, Cl. 165—134.

Jacobs, J Donovan. Movable trackways for tunnels and method for moving tunnel flooring. 3,138,327, 6–23–64, Cl. 238—10.

Jacobs, James W., to General Motors Corp. Fluid distribution pump. 3,117,523, 1–14–64, Cl. 103—2.

Jacobs, James W., to General Motors Corp. Refrigerating apparatus including cabinet structure. 3,122,006, 2–25–64, Cl. 62—453.

Jacobs, James W., to General Motors Corp. Clothes conditioning apparatus. 3,163,029, 12–29–64, Cl. 68—12.

Jacobs, James W., B. L. Brucken, and G. B. Long, to General Motors Corp. Dry cleaning system with a replaceable filter cartridge and means for venting solvent fumes. 3,132,501, 5–12–64, Cl. 68—18.

Jacobs, John C.: *See*—
Gould, Richard E., and Jacobs. 3,127,498.
Stormer, Joseph R., and Jacobs. 3,123,347.

Jacobs, John H.: *See*—
Brown, Richard P., and Jacobs. 3,143,940.
Brown, Richard P., and Jacobs. 3,144,332.
Robinson, Charles F., and Jacobs. 3,130,000.

Jacobs, John H., to Consolidated Electrodynamics Corp. Rapid latensification of printout material. 3,152,902, 10–13–64, Cl. 96—50.

Jacobs, John H., and R. P. Brown, to Bell & Howell Co. Provision of moisture-rich atmosphere for processing heat developed photographic material. 3,148,612, 9–15–64, Cl. 95—89.

Jacobs, John K., and A. L. Norman, Jr., to Hercules Powder Co. Apparatus for pyrolysis of hydrocarbons. 3,154,385, 10–27–64, Cl. 23—284.

Jacobs, Lewis W., to General Electric Co. Electric panel assembly. 3,141,997, 7–21–64, Cl. 317—99.

Jacobs, Lewis W., and R. J. Sabatella, to General Electric Co. Cable connector for plug-in panel. 3,128,142, 4–7–64, Cl. 339—198.

Jacobs, Lewis W., and R. J. Sabatella, to General Electric Co. Plug-in type panel unit. 3,160,791, 12–8–64, Cl. 317—119.

Jacobs, Orville W.: *See*—
Brooks, Dewey H., Jr., and Jacobs. 3,128,539.

Jacobs, Paul F.: *See*—
Young, John T., and Jacobs. 3,130,036.

Jacobs, Percy C., to United States Steel Corp. Indicating calipers. 3,117,380, 1–14–64, Cl. 33—148.

Jacobs, Peter C.: *See*—
Rydberg, George E., A. J. and P. C. Jacobs. 3,125,031.

Jacobs, Philip C., Jr., to The Chase-Shawmut Co. Fusible protective devices for cable protection. 3,132,223, 5–5–64, Cl. 200—120.

Jacobs, Philip F., to Secure-Ur-Trip Inc. Form-ejecting machine. 3,119,538, 1–28–64, Cl. 226—157.

Jacobs, Richard K., to United States of America, Navy. Acoustic water path simulator. 3,145,365, 8–18–64, Cl. 340—5.

Jacobs, Robert B., L. O. Mullen, D. A. Van Gundy, R. J. Richards, and W. G. Steward, to United States of America, Army. Condensing vacuum insulation. 3,137,143, 6–16–64, Cl. 62—45.

Jacobs, Sigmund J., to United States of America, Navy. High speed camera with rotating mirror and optical focal plane shutter. 3,135,155, 6–2–64, Cl. 88—16.

Jacobs, Thomas L., and D. S. Bauer, to E. I. du Pont de Nemours and Co. Perfluoroallene. 3,148,223, 9–8–64, Cl. 260—653.5.
Jacobs, William A., to Sun Chemical Corp. Display holder. 3,131,807, 5–5–64, Cl. 206—45.19.
Jacobs, William A., and K. A. Hornung, to Sun Chemical Corp. Embossing, sheeting and winding machine and process. 3,131,425, 5–5–64, Cl. 18—4.
Jacobs, William A., and K. A. Hornung, to Sun Chemical Corp. Semi-automatic forming machine and process. 3,138,826, 6–30–64, Cl. 18—19.
Jacobs, William A., and F. H. Collins, to Sun Chemical Corp. Method of extruding a foamed thermoplastic product. 3,151,192, 9–29–64, Cl. 264—53.
Jacobs, William H. Circulating and dispensing apparatus for beverage coolers. 3,119,531, 1–28–64, Cl. 222—318.
Jacobsen, Albert J., and E. F. Zlotnick, to The Bendix Corp. Underlying means for punching a clutch plate. 3,136,195, 6–9–64, Cl. 83—467.
Jacobsen, Allen I. Swimmer training device. 3,142,485, 7–28–64, Cl. 272—57.
Jacobsen, Calvin R. Bullet puller. 3,123,369, 3–3–64, Cl. 279—35.
Jacobsen, Elmo A. Ignition key warning device. 3,138,780, 6–23–64, Cl. 340—52.
Jacobsen Mfg. Co.: *See*—
Price, Warren H. 3,116,937.
Price, Warren H., and Kaufman. 3,138,910.
Jacobsen, Paul W.: *See*—
Weber, Herbert H., and Jacobsen. 3,134,309.
Jacobsen Products, Inc.: *See*—
Horelick, Arnold L. 3,148,835.
Jacobson, Alden H., and S. I. Rice, to The Heald Machine Co. Positional servo system. 3,139,570, 6–30–64, Cl. 318—28.
Jacobson, Ben. Cover to identify keys. 3,123,926, 3–10–64, Cl. 40—330.
Jacobson, Chester F., to General Electric Co. Door latch and switch operating mechanism. 3,133,168, 5–12–64, Cl. 200—61.68.
Jacobson and Co., Inc.: *See*—
Rothschild, Richard D. 3,154,327.
Jacobson, Dale D. Adjustable window blind. 3,156,956, 11–17–64, Cl. 20—62.
Jacobson, David E., and S. Y. Ek, to Wegematic Corp. Wear reduction additives. 3,148,620, 9–15–64, Cl. 102—38.
Jacobson, Gene A., to McGraw-Edison Co. Expanding ground anchor design. 3,144,106, 8–11–64, Cl. 189—92.
Jacobson, Harvey B.: *See*—
Brandon, Clarence W. 3,133,591.
Brandon, Clarence W. 3,138,213.
Jacobson, Harvey J., deceased; by V. M. Jacobson, legal representative. Propeller lift assembly. 3,123,392, 3–3–64, Cl. 294—81.
Jacobson, Irvin D., to Perfection Pipe Nipple Co. Heat trap for hot water storage tanks. 3,117,622, 1–14–64, Cl. 165—132.
Jacobson, Irving. Camera control attachment. 3,138,080, 6–23–64, Cl. 95—31.
Jacobson, Melvin J., and J. R. Glodek. Rotary engine. 3,137,280, 6–16–64, Cl. 123—14.
Jacobson, Milton D. Pants having a side opening. 3,149,343, 9–22–64, Cl. 2—235.
Jacobson, Robert E., to United States Gypsum Co. Film-covered article and method of making same. 3,149,018, 9–15–64, Cl. 161—43.
Jacobson, Robert L., to California Research Corp. Hydrogenation of high boiling oils. 3,145,160, 8–18–64, Cl. 208—254.
Jacobson, Sidney. Accessory for garment steaming devices. 3,142,916, 8–4–64, Cl. 38—97.
Jacobson, William P., to American Can Co. Carton. 3,127,088, 3–31–64, Cl. 229—51.
Jacobus', A. G., Sons, Inc.: *See*—
Schueler, Henry A. 3,119,137.
Jacoby-Bender, Inc.: *See*—
Brudney, Harry. 3,120,720.
De Lise, Frank F. 3,154,620.
Jacoby, Charles H., to The International Salt Co., Inc. Method of well completion. Re. 25,682, 11–10–64, Cl. 299—4.
Jacoby, Donald R.: *See*—
Jensen, James R., and Jacoby. 3,131,888.
Jacoby, Frederick J.: *See*—
Nadeau, Gale F., Starck, and Jacoby. 3,143,421.
Jacoby, Harry D.: *See*—
Hottenroth, Frederick W., and Jacoby. 3,159,119.
Jacoby, Thomas A.: *See*—
Pleiss, Bernard J., Jr., and Jacoby. 3,131,322.
Jacoby, William F., to American Machine & Foundry Co. Bicycle chain guard. 3,162,062, 12–22–64, Cl. 74—611.
Jacoves, Erwin: *See*—
Brautigam, Rudolf G., and Jacoves. 3,132,170.
Jacuzzi Bros., Inc.: *See*—
Jacuzzi, Candido. 3,159,849.
Nash, Floyd M. 3,149,070.
Pretti, Eugene D. 3,143,139.
Jacuzzi, Candido, to Jacuzzi Bros., Inc. Hydrotherapy equipment. 3,159,849, 12–8–64, Cl. 4—180.
Jacwill Mfrs.: *See*—
White, John L. Re. 25,545.
Jaeger, Ed., Etablissements, Societe Anonyme: *See*—
Held, Simon S. 3,125,696.
Jaeger, Erich. Heart monitoring device. 3,156,235, 11–10–64, Cl. 128—2.05.
Jaeger, Harold J.: *See*—
Arnold, Jack H., Jr., and Jaeger. 3,143,071.
Jaeger Machine Co., The: *See*—
Apel, John H., and Beeson. 3,130,654.
Paugh, Fred. 3,156,409.
Jaeger, Renee H.: *See*—
Robinson, Robert, Jaeger, and Clark. 3,130,202.
Jaeger, Wilbert J. Air conditioning and refrigeration apparatus for motor vehicles. 3,145,545, 8–25–64, Cl. 62—323.
Jaekel, Gerhart: *See*—
Bretschneider, Otto, Jaekel, and Diskowski. 3,159,021.
Ritter, Friedbert, Bretschneider, Jaekel, and Diskowski. 3,151,977.
Jaep, William F., to E. I. du Pont de Nemours and Co. Method and apparatus for heat transfer. 3,125,861, 3–24–64, Cl. 62—3.
Jaeschke, Ralph L., to Eaton Mfg. Co. Electromagnetic couplings. Re. 25,516, 1–28–64, Cl. 192—84.
Jaeschke, Ralph L., to Eaton Mfg. Co. Fluid-cooled rotary electrical apparatus. 3,148,294, 9–8–64, Cl. 310—105.
Jaffa, David: *See*—
Jaffa, Matthew L. and D. 3,143,961.
Jaffa, Matthew L. and D. Screen printing head and improved squeegee assembly therefor. 3,143,961, 8–11–64, Cl. 101—123.
Jaffe, Bernard: *See*—
Koenig, John, and Jaffe. 3,153,179.
Kulcsar, Frank, and Jaffe. 3,144,411.
Jaffe, David L., to Polarad Electronics Corp. Pulse echo spectrum analyzer. 3,119,999, 1–28–64, Cl. 343—17.1.
Jaffe, Edward E., to E. I. du Pont de Nemours and Co. Process for producing quinacridonequinones. 3,124,582, 3–10–64, Cl. 260—279.
Jaffe, Edward E., to E. I. du Pont de Nemours and Co. Schiff bases and metal chelate pigments made therefrom. 3,132,140, 5–5–64, Cl. 260—240.
Jaffe, Fred: *See*—
Gage, William P., and Jaffe. 3,140,271.
Jaffe, Gunter S.: *See*—
Doyle, Marshall E., and Jaffe. 3,131,164.
Jaffe, Hans, and H. H. A. Krueger, to Clevite Corp. Stabilizing piezoelectric ceramics. 3,149,232, 9–15–64, Cl. 250—106.
Jaffe, Herbert. Bilge pump. 3,146,753, 9–1–64, Cl. 114—183.
Jaffe, Lloyd, to Sidney Grain Machinery Co. Electronic distributor control. 3,119,523, 1–28–64, Cl. 222—25.
Jaffe, Rainer G.: *See*—
Herschler, Robert J., and Jaffe. 3,120,423.
Herschler, Robert J., and Jaffe. 3,128,222.
Herschler, Robert J., Jaffe, and Kay. 3,117,882.
Jaffe, Richard M.: *See*—
Holcomb, Don R., Jaffe, Pew, and St. John. 3,141,164.
Jaffee, David L., and J. K. Percus, to Polarad Electronics Corp. Microwave frequency X-ray diffraction simulator. 3,133,246, 5–12–64, Cl. 324—58.5.
Jagemann, Nicholas B., and R. S. Pilger, to Mirro Aluminum Co. Boat seat structure. 3,142,849, 8–4–64, Cl. 9—7.
Jagenberg-Werke AG: *See*—
Meyer-Jagenberg, Gunther. 3,118,351.
Meyer-Jagenberg, Gunther. 3,127,082.
Meyer-Jagenberg, Gunther. 3,160,238.
Zerlin, Hans. 3,124,294.
Jäger, Lothar, to North American Philips Co., Inc. Magnetic tape dictating machine. 3,133,711, 5–19–64, Cl. 242—55.12.
Jaggard, Robert W.: *See*—
Marchant, Francis C. I., and Jaggard. 3,140,841.
Jagger, William M., to McCulloch Corp. Reverse lock for outboard motors. 3,158,346, 11–24–64, Cl. 248—4.
Jaha, Ahmed. Underground shelter. 3,145,640, 8–25–64, Cl. 98—33.
Jahn, Eduard: *See*—
Lumm, Gunther, and Jahn. 3,139,866.
Jahn, Eva-Maria, and H. Brenken, to The British Petroleum Co. Ltd. Process for the production of liquid paraffin. 3,139,399, 6–30–64, Cl. 208—264.
Jahn, Marion C., to Colborne Mfg. Co. Automatic pie machine. 3,129,674, 4–21–64, Cl. 107—12.
Jahn, Martin D., to Chicago Metallic Sash Co. Method of producing suspended ceiling runners. 3,150,440, 9–29–64, Cl. 29—155.
Jahn, Paul: *See*—
Junghans, Helmut, and Jahn. 3,125,987.
Jahn, Ulrich: *See*—
Bruckner, Klaus, Irmscher, Jahn, Metz, and Gillissen. 3,117,060.
Jahnig, Charles E., to Esso Research and Engineering Co. Process for preparing hydrogen by steam reforming of hydrocarbons. 3,147,080, 9–1–64, Cl. 23—212.
Jahnig, Charles E., P. L. Silveston, and C. W. Tyson, to Esso Research and Engineering Co. Hydrocarbon conversion process. 3,163,496, 12–29–64, Cl. 23—212.
Jahns, Edward R., to Hoffman Electronics Corp. Width control. 3,132,283, 5–5–64, Cl. 315—27.
Jahoda, Edward, and P. Muller, to Andrews Paper & Chemical Co., Inc. Precoated diazo reproduction paper. 3,155,511, 11–3–64, Cl. 96—75.
Jahresuhren-Fabrik G.m.b.H.: *See*—
Reich, Robert W. 3,118,098.

Jakaitis, Eugene A., and D. S. Brown, to The Atlantic Refining Co. High sealing strength wax compositions. 3,146,214, 8–25–64, Cl. 260—28.5.
Jakel, Gustav, to Siemens-Schuckertwerke Aktiengesellschaft. Electric control device with improved contact structure. 3,160,730, 12–8–64, Cl. 200—166.
Jakes, Harold E., and D. M. De Merce, to Rescue Research & Development Co. Segmented litter. 3,135,972, 6–9–64, Cl. 5—2.
Jakeway, Gerald V., to Keeler Brass Co. Door handle. 3,127,206, 3–31–64, Cl. 292—164.
Jakeway, Gerald V., to Keeler Brass Co. Drawer pulls and the like. 3,153,806, 10–27–64, Cl. 16—127.
Jaklitsch, Franz. Compressor valves. 3,158,175, 11–24–64, Cl. 137—516.19.
Jakob, Franz: *See*—
Kiper, Gerd, Jakob, Knorr, Auer, and Hennig. 3,148,602.
Jakob, Franz, and F. Ostertag, to Agfa Aktiengesellschaft. Adjustable automatic exposure control structure for cameras. 3,126,802, 3–31–64, Cl. 95—10.
Jakob, Franz, and R. Knorr, to Agfa Aktiengesellschaft. Camera with automatic diaphragm. 3,139,804, 7–7–64, Cl. 95—10.
Jakob, John P.: *See*—
Borkmann, Frank F., and Jakob. 3,153,374.
Jakobchuk, Vladimir J.: *See*—
Sviadoshch, Yury N., Shpekht, Jakobchuk, Podlesnykh, and Ignatov. 3,124,521.
Jakobs, Hans, to Novo Industrial Corp. Filter. 3,124,530, 3–10–64, Cl. 210—389.
Jakobson, Karl F. O., to A. Ekstroms Maskinaffar, Aktiebolaget. Discharging cellulosic fibrous material in bulk form. 3,147,883, 9–8–64, Cl. 222—1.
Jakobsson, Bengt F., and E. V. Jung, to Landsverk, Aktiebolaget. Driving means. 3,132,739, 5–12–64, Cl. 198—213.
Jakolat, Alfred R.: *See*—
Richards, George B., Kushmuk, and Jakolat. 3,154,091.
Jakosky, John J., and J. J., Jr. Sea anchor. 3,134,355, 5–26–64, Cl. 114—209.
Jakosky, John J., Jr.: *See*—
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Jallen, Gale A., R. R. Reisinger, and D. K. Sampson, to Data Products Corp. Linear motors. 3,130,331, 4–21–64, Cl. 310—14
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Jason, Alfred C., and A. Lees. Hygrometric elements. 3,121,-853, 2–18–64, Cl. 338—35.

Jason, Emil F.: *See*—
Rolib, Robert J., and Jason. 3,142,695.

Jason, Emil F., and E. K. Fields, to Standard Oil Co. Ditetradecylamine salt of bis(4-carboxyphenyl)dimethylstannane. 3,122,576, 2–25–64, Cl. 260—429.7.

Jason, Emil F., and E. K. Fields, to Standard Oil Co. 2,5-diphenylmercaptoterephthalic acid and alkali metal salts thereof. 3,148,209, 9–8–64, Cl. 260—516.

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Jasper, Charles P., and K. Perkins, to The Singer Co. Hose connectors for vacuum cleaners. 3,148,895, 9–15–64, Cl. 285—7.

Jasper, Elmer P., to Chris-Craft Corp. Cooling systems for marine engines. 3,125,081, 3–17–64, Cl. 123—41.09.

Jasper, Karl-Theodor. Compound supporting structure for underground roads in mines. 3,126,708, 3–31–64, Cl. 61—45.

Jasper, Leslie L., to Texas Instruments Inc. System for sampling, holding and comparing consecutive analog signals. 3,158,759, 11–24–64, Cl. 307—88.5.

Jasperson, Robert E., to United States of America, Navy. Satellite alert. 3,133,352, 5–19–64, Cl. 33—1.

Jaspert, William B.: *See*—
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Jasse, Joseph R., to Hotchkiss-Brandt. High-tension or spark-type electric igniter. 3,118,375, 1–21–64, Cl. 102—28.

Jasse, Joseph R., to Hotchkiss-Brandt. Percussion fuze for rocket. 3,118,378, 1–21–64, Cl. 102—78.

Jasse, Joseph R., to Hotchkiss-Brandt. Fuze for a gyratory projectile. 3,118,379, 1–21–64, Cl. 102—79.

Jasse, Joseph R., to Hotchkiss-Brandt. Gyratory self-propelled projectile. 3,119,303, 1–28–64, Cl. 89—1.7.

Jasse, Joseph R., to Hotchkiss-Brandt. Ejectable tail unit for the propelling launching charge of a projectile which is loaded through the muzzle of the firing means. 3,120,-151, 2–4–64, Cl. 89—1.

Jasse, Joseph R., to Hotchkiss-Brandt. Relay forming additional charge for a projectile. 3,124,070, 3–10–64, Cl. 102—39.

Jasse, Joseph R., to Hotchkiss-Brandt. Electric fuse for rocket. 3,128,705, 4–14–64, Cl. 102—70.2.

Jasse, Joseph R., to Hotchkiss-Brandt. Fluid pressure actuated time delay fuze. 3,143,073, 8–4–64, Cl. 102—85.6.

Jasse, Joseph R., to Hotchkiss-Brandt. Projectile for a mortar having a non-rifled bore. 3,143,074, 8–4–64, Cl. 102—92.5.

Jastrzemski, Stanley E., to Johns-Manville Corp. Roof covering. 3,127,701, 4–7–64, Cl. 50—192.

Jauch, Christian M. J., to General Time Corp. Telephone call timer. 3,136,114, 6–9–64, Cl. 58—21.14.

Jauch, Robert J.: *See*—
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Jauch, Robert J., and C. W. Kruckeberg, to Tokheim Corp. Apparatus for dispensing and pricing selected blends of two liquids. 3,152,724, 10–13–64, Cl. 222—26.

Jauhola, Leo A., to Ametek, Inc. Filter. 3,144,409, 8–11–64, Cl. 210—391.

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Langdon, William K., Jaul, and Lewis. 3,154,544.

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Blair, Laurence R., and Jaunarajs. 3,126,352.

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Javan, Ali, and R. Kompfner, to Bell Telephone Laboratories, Inc. Detector for optical communication system. 3,154,-748, 10–27–64, Cl. 329—144.

Jaworski, Ernest G.: *See*—
Newallis, Peter E., and Jaworski. 3,145,137.

Jaworski, Leonard S., to The Bishop and Babcock Corp. Cage nut. 3,126,038, 3–24–64, Cl. 151—41.75.

Jaworski, Leonard S., to The Bishop and Babcock Corp. Cage nut. 3,138,187, 6–23–64, Cl. 151—41.75.

Jay, Frederic C., to Richard Cedar Works Mfg. Corp. Ice cream freezer beaters. 3,161,404, 12–15–64, Cl. 259—134.

Jay, Robert W., to Continental Oil Co. Dynamometer adapter. 3,152,474, 10–13–64, Cl. 73—141.

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Broske, William F., and Jaycox. 3,163,200.

Jayes, William A.: *See*—
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Jayle, Gaëtan J. E., and P. Mossé. Apparatus and in particular in campimeters including a screen illuminated in a uniform manner. 3,138,334, 6–23–64, Cl. 240—46.45.
Jayne, Frank J., and J. E. Foerst, to General Electric Co. Vehicle headlamp and filament shield therefor. 3,136,914, 6–9–64, Cl. 313—117.
Jazbutis, Anatolijus, to Rockwell Mfg. Co. Vehicle simulator. 3,154,864, 11–3–64, Cl. 35—11.
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Jeannin, Robert A. A., to Societe des Accumulateurs Fixes et de Traction (Societe Anonyme). Process for manufacturing electrodes for primary and secondary cells and cells produced therewith. 3,162,549, 12–22–64, Cl. 136—175.
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Jeeves, Terry A., to Westinghouse Electric Corp. Computer carry circuits. 3,125,675, Cl. 235—175.
Jeeves, Terry A., to Westinghouse Electric Corp. NOR element dynamic adder-subtractor. 3,125,676, 3–17–64, Cl. 235—175.
Jeffers, Walter M., to Crouse-Hinds Co. Low speed vehicle detection system. 3,137,838, 6–16–64, Cl. 340—31.
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Brader, Walter H., Jr. 3,157,657.
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Jefferys, Albert G., to Molins Machine Co. Ltd. Apparatus for applying patches of adhesive to blanks in automatic machines. 3,162,546, 12–22–64, Cl. 118—212.
Jeffree, Herbert, to Vickers-Armstrongs (Aircraft) Ltd. Power-transmission systems. 3,163,055, 12–29–64, Cl. 74—501.5.
Jeffrey, Clarence L. Depth gauge and scarifier for a bulldozer blade. 3,124,888, 3–17–64, Cl. 37—145.
Jeffrey, Ernest H. K., to The British Wedge Wire Co. Ltd. Conveyor belts. 3,159,267, 12–1–64, Cl. 198—193.
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Medley, Harold C. 3,144,125.
Medley, Harold C. 3,144,282.
Roloson, Alfred H. 3,144,928.
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Jeffreys, Roy A., to Eastman Kodak Co. Amino-phosphorylchloride hardeners for gelatin. 3,125,449, 3–17–64, Cl. 96—111.
Jeffries, Joseph L., ½ to J. S. Burden. Safety device for fluid conduits extending between vehicles. 3,127,194, 3–31–64, Cl. 280—421.
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Jeffries, Robert, and Provencal. 3,146,310.
Jeffries, Robert, and R. L. Provencal, 50% each to R. and M. Jeffries. Control apparatus for telephone answering system. 3,146,310, 8–25–64, Cl. 179—6.
Jeffries, Sampson F., to The Dow Chemical Co. Thin film coating for tablets and the like and method of coating. 3,149,038, 9–15–64, Cl. 167—82.
Jeffries, Sampson F., to The Dow Chemical Co. Thin film coating for tablets and the like and method of coating. 3,149,039, 9–15–64, Cl. 167—82.
Jeffries, Sampson F., to The Dow Chemical Co. Thin film coating for tablets and the like and method of coating. 3,149,040, 9–15–64, Cl. 167—82.
Jeffries, Sampson F., to The Dow Chemical Co. Thin film coating for tablets and the like and method of coating. 3,149,041, 9–15–64, Cl. 167—82.
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Jeger, Oskar, and K. Schaffner, to Ciba Corp. 19-oxygenated steroids and process for their manufacture. 3,147,251, 9–1–64, Cl. 260—239.55.
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Medicus, Gustav K., and Jehn. 3,160,391.
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Jelatis, Demetrius G., R. A. Olsen, L. W. Haaker, and E. W. Pearson, to Central Research Laboratories, Inc. Rugged-duty master-slave manipulator. 3,139,990, 7–7–64, Cl. 214—1.
Jelinek, Charles F., L. N. Stanley, and W. H. Armento, to General Aniline & Film Corp. Fungicidal method. 3,138,-521, 6–23–64, Cl. 167—30.
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Jellies, David A., to General Electric Co. Automatic dishwashing appliance. 3,130,737, 4–28–64, Cl. 134—57.
Jemison, Volney M., to Thunderbird Engineering Co. Pressure responsive switch. 3,130,281, 4–21–64, Cl. 200—83.
Jemison, Volney M., and D. H. Young, to Thunderbird Engineering Co. Fluid injector pump. 3,120,811, 2–11–64, Cl. 103—38.
Jemison, Volney M., and D. H. Young, to Glassoloid Corp. of America. Laminating press. 3,139,816, 7–7–64, Cl. 100—51.
Jen, Yun, and J. A. Seneker, to California Research Corp. Aqueous dispersions of amino resins and alkyd resins. 3,133,032, 5–12–64, Cl. 260—21.
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Faulstich, Marga. 3,150,990.
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Schroder, Hubert, and Kaufmann. 3,138,475.
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Jencks, Charles L., to General Electric Co. Movable contact arm assembly. 3,134,878, 5–26–64, Cl. 200—166.
Jencks, Charles L., and F. H. Murphy, to General Electric Co. Circuit breaker trip device with ambient compensation and adjusting means therefor. 3,155,795, 11–3–64, Cl. 200—116.
Jencks, Charles L., and F. H. Murphy, to General Electric Co. Electric circuit breaker including stop means for limiting movement of a toggle linkage. 3,158,717, 11–24–64, Cl. 200—116.
Jend, Paul. Tamper-proof holder for paper rolls. 3,155,333, 11–3–64, Cl. 242—55.2.
Jenison, Richard B. Safety pin. 3,135,035, 6–2–64, Cl. 24—161.

Jenk, Robert L., to The Mead Corp. Corner post construction. 3,129,868, 4–21–64, Cl. 229—14.

Jenkin, William C., to Union Carbide Corp. Method of depositing metal coatings in holes, tubes, cracks, fissures and the like. 3,158,499 11–24–64, Cl. 117—107.2.

Jenkin, William C., to Union Carbide Corp. Method of depositing metals and metallic compounds throughout the pores of a porous body. 3,160,517, 12–8–64, Cl. 117—93.3.

Jenkins Bros.: *See*—
Baskell, Raymond C. 3,149,413.

Jenkins, Bruce R., to Technical Appliance Corp. Adjustable support to manipulate feed waveguide from rear of dish. 3,145,385, 8–18–64, Cl. 343—781.

Jenkins, Cecil: *See*—
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Woolslayer, Homer J., and Jenkins. 3,136,394.
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Jenkins, Cecil, to Lee C. Moore Corp. Oil well drilling structure. 3,141,653, 7–21–64, Cl. 254—139.

Jenkins, Cecil, and J. R. Woolslayer, to Lee C. Moore Corp. Oil well with drill pipe transferring boom. 3,123,231, 3–3–64, Cl. 214—2.5.

Jenkins, Felton S., and A. D. Kompelien, Arlon D., to Minneapolis-Honeywell Regulator Co. Supervisory system. 3,138,792, 6–32–64, Cl. 340—213.

Jenkins, Frank W.: *See*—
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Jenkins, George W. Water propulsion apparatus. 3,122,122, 2–25–64, Cl. 115—30.

Jenkins, Gerald L., W. C. Miller, and R. F. Finzer, to Eastman Kodak Co. Zoom lens drive mechanisms for photographic cameras. 3,157,881, 11–17–64, Cl. 352—166.

Jenkins, Hugh P., Jr.: *See*—
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Jenkins, Kenneth D.: *See*—
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Jenkins, Lloyd T.: *See*—
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Congiundi, Nicholas R., and Jenkins. 3,160,609.

Jenkins, Lloyd T., to Monsanto Chemical Co. Polymerization initiators for polar monomers. 3,124,561, 3–10–64, Cl. 260—88.7.

Jenkins, Lloyd T., and N. R. Congiundi, to Monsanto Co. Process for preparing polyester amides in the presence of stannous oxalate catalyst. 3,153,010, 10–13–64, Cl. 260—75.

Jenkins, Merrill M. E. Flow detector device. 3,118,983, 1–21–64, Cl. 200—61.42.

Jenkins, Philip, to Pye Ltd. Liquid sampling apparatus for gas chromatography. 3,118,300, 1–21–64, Cl. 73—23.

Jenkins, Richard H., and E. H. Wieber, to Vibration Measurement Engineers. Blasting machine. 3,141,114, 7–14–64, Cl. 317—80.

Jenkins, Robert B.: *See*—
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Jenkins, Robert B., Sr. Apparatus for grinding dual flats on cards. 3,154,895, 11–3–64, Cl. 51—243.

Jenkins, Robert D.: *See*—
Mapel, William S., and Jenkins. 3,141,583.

Jenkins, Thomas E., to General Electric Co. Washing machine with selectively variable washing action. 3,134,386, 5–26–64, Cl. 134—102.

Jenkins, Thomas E., and M. R. Kauffman, to General Electric Co. Drain control system for a washing machine. 3,124,-146, 3–10–64, Cl. 134—57.

Jenkins, Walter N.: *See*—
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Jenkins, Walter N., and A. G. Shakespeare, to The British Iron and Steel Research Assn. Continuous heat treatment of elongate metal material. 3,163,566, 12–29–64, Cl. 148—150.

Jenkinson, John V., to Microwave Associates, Inc. Method of manufacturing point contact semiconductor devices. 3,127,659, 4–7–64, Cl. 29—25.3.

Jenkner, Herbert, to Kali-Chemie Aktiengesellschaft. Preparation of ethynyl silanes. 3,137,718, 6–16–64, Cl. 260—448.2.

Jenkner, Herbert, to Kali-Chemi Aktiengesellschaft. Process of manufacturing dichlorosilane. 3,147,071, 9–1–64, Cl. 23—14.

Jenkner, Herbert, to Kali-Chemie Aktiengesellschaft. Preparation of amine-boranes. 3,147,309, 9–1–64, Cl. 260—583.

Jenks, Howard E. Semaphore for electric toy trains. 3,163,-125, 12–29–64, Cl. 104—149.

Jenks, Vincent. Traction device. 3,133,581, 5–19–64, Cl. 152—216.

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Burke, Oliver W., Jr., Grace, Jennen, and Berry. 3,144,-426.

Jenness, James R., Jr., and F. J. Shimukonis. Apparatus for passive infrared range finding. 3,117,228, 1–7–64, Cl. 250—83.3.

Jenni, James R. Snake toxicant. 3,117,058, 1–7–64, Cl. 167—46.

Jennie, Fred L.: *See*—
Weatherby, Roy E., and Jennie. 3,155,004.

Jennings, Earl R., to Pan American Petroleum Corp. Apparatus for lining wells. 3,134,442, 5–26–64, Cl. 166—207.

Jennings, Edward E., to The Pipe Machinery Co. Thread chaser and chip breaker and deflector combination. 3,126,-560, 3–31–64, Cl. 10—111.

Jennings, Edward E., to The Pipe Machinery Co. Apparatus for contour boring elongated sleeves of small internal diameter. 3,129,445, 4–21–64, Cl. 10—129.

Jennings Engineering Co.: *See*—
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Mills, John T., and Fleming. 3,142,604.

Jennings, Gerald M., and J. D. Gooding, to Everest & Jennings, Inc. Transfer chair. 3,139,306, 6–30–64, Cl. 297—326.

Jennings, Irving C. Pump priming. 3,131,637, 5–5–64, Cl. 103—26.

Jennings, Irving C. Pumping device. 3,154,240, 10–27–64, Cl. 230—79.

Jennings, James W.: *See*—
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Jennings, Jo E., to Jennings Radio Mfg. Corp. Vacuum switch and actuator assembly. 3,148,259, 9–8–64, Cl. 200—144.

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Jennings, Marvin D., to International Harvester Co. Rear wheel mounting for two-way plow. 3,123,150, 3–3–64, Cl. 172—219.

Jennings, Paul A., to Armco Steel Corp. Valve steel. 3,149,-965, 9–22–64, Cl. 75—128.

Jennings Radio Mfg. Corp.: *See*—
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Neibaur, Roderick W. 3,156,852.

Jennings, Samuel J. Rotary rib cotton gin. 3,135,021, 6–2–64, Cl. 19—56.

Jennings, Samuel J., to Community Gin Co. Cotton cleaning and extracting apparatus. 3,136,003, 6–9–64, Cl. 19—55.

Jennings, Thomas J.: *See*—
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Jennings, Thomas J., and H. H. Voge, to Shell Oil Co. Production of lower aliphatic nitriles. 3,142,697, 7–28–64, Cl. 260—465.3.

Jennings, Thomas J., and H. H. Voge, to Shell Oil Co. Catalytic oxidative dehydrogenation of monoolefins. 3,159,688, 12–1–64, Cl. 260—680.

Jennings, Walter E., to The Dow Chemical Co. Apparatus for making models of structures. 3,153,299, 10–20–64, Cl. 46—29.

Jennings, William A., to Economy Forms Corp. Structural lock. 3,132,405, 5–12–64, Cl. 25—131.

Jennings, William A., to Economy Forms Corp. Form aligner clamp. 3,137,052, 6–16–64, Cl. 24—248.

Jennings, William A., to Economy Forms Corp. Locking connection for concrete forms. 3,160,940, 12–15–64, Cl. 25—131.

Jennings, William L., and R. E. Baker, to McGraw-Edison Co. Rotary tool. 3,126,793, 3–31–64, Cl. 90—62.

Jennison, Anthony P. and J., and M. I. Place. Occupant-propelled merry-go-round. 3,136,542, 6–9–64, Cl. 272—30.

Jennison, Joseph: *See*—
Jennison, Anthony P. and J., and Place. 3,136,542.

Jenny, Ernst: *See*—
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Jenny, Ernst, to Ciba Ltd. Dichloro-dialkylamino-methanes. 3,146,268, 8–25–64, Cl. 260—583.

Jenny, Erwin: *See*—
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Grob, Cyril, and Jenny. 3,162,691.

Jenny, Hans K., to Radio Corp. of America. Radar system and component apparatus. 3,163,862, 12–29–64, Cl. 343—17.1.

Jenny, Robert W., and R. O. Lewis, Jr. Vehicle for non-air, semi-air, and full-air supported travel. 3,145,954, 8–25–64, Cl. 244—105.

Jenny, Rudolf, to Schweiter AG, Maschinenfabrik. Device for opening yarn hanks. 3,126,607, 3–31–64, Cl. 28—58.

Jenny, Theodore M., D. H. Porter, and R. H. Rice, to FMC Corp. Distillation of hydrogen peroxide. 3,152,052, 10–6–64, Cl. 202—46.

Jenot, Michel, to Societe d'Exploitation des Ateliers Rene Halftermeyer. Line scanning transformer with adjustable leakage inductance. 3,117,122, 1–14–64, Cl. 336—134.

Jensen, Aage. Rotary engine which may comprise a pump or a motor. 3,134,335, 5–26–64, Cl. 103—123.

Jensen, Alan K., to Monroe Calculating Machine Co. Monopulser utilizing a minority carrier storage diode. 3,134,028, 5–19–64, Cl. 307—88.5.

Jensen, Andrew O.: *See*—
Gardiner, Paul C., and Jensen. 3,119,040.

Jensen, Arthur E. Irrigation apparatus. 3,147,764, 9–8–64, Cl. 137—344.

Jensen, Arthur S., to Westinghouse Electric Corp. Radiant energy converter. 3,121,648, 2–18–64, Cl. 136—89.

Jensen, Carl F.: *See*—
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Ekstam, Martin R., and Johansson. 3,135,016.
Johansson, Johan G. I.: *See*—
Asplund, Arne J. A., Penten, and Johansson. 3,158,-333.
Johmann, Frank T.: *See*—
Bross, Helmut K. 3,147,740.
Bross, Helmut K. 3,158,138.
Johmann, Frank T. Ballpoint cartridge units. 3,119,377, 1–28–64, Cl. 120—42.4.
Johmann, Frank T. Retraction-protraction mechanism for writing instruments. 3,144,005, 8–11–64, Cl. 120—42.03.
John, Eve M. Manicuring device. 3,130,433, 4–28–64, Cl. 15—105.
John, Harold F.: *See*—
Faust, John W., Jr., and John. 3,130,040.
John, Heinz, to Maschinenfabrik Benninger A.-G. Method of uniting warps. 3,161,941, 12–22–64, Cl. 28—72.5.
John Products, Inc.: *See*—
Dadd, Morris V. 3,128,749.
Johne, Rudolf: *See*—
Henne, Willibald, and Johne. 3,119,044.
Johnesee, James W.: *See*—
Decker, Alfred S., and Johnesee. 3,145,092.
Johns, Edward C.: *See*—
Goepfert, George J., and Johns. 3,116,986.
Johns, Herbert L.: *See*—
Vukasovich, Mark S., and Johns. 3,148,996.
Johns-Manville Corp.: *See*—
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Barnett, Joseph, Jr. 3,160,365.
Benton, Louis A. 3,159,518.
Blair, Laurence R., and Jaunarajs. 3,126,351.
Blair, Laurence R., and Jaunarajs. 3,126,352.
Carter, David C. 3,138,898.
Chen, Alwin B., Desnoyers, and Strauss. 3,159,475.
Cimochowski, Anthony E. 3,156,972.
Claessens, Frank A. 3,144,378.
Crawford, James C., Jr., and Hartwell. 3,139,253.
De Gaugue, Charles L. E., Jr. 3,152,099.
Fox, La Verdo J. 3,117,888.
Gould, Thomas R., Hahn, Coleman, and Simmers. 3,142,-869.
Gould, Thomas R., and Simmers. 3,133,319.
Hahn, William P., and Collins. 3,128,503.
Harr, Claude F. 3,155,567.
Hesse, Walter K. 3,159,290.
Holcomb, Harry E. 3,118,807.
Jack, William A., and Landgraf. 3,117,403.
Jack, William A., and Landgraf. 3,160,226.
Jastrzemski, Stanley E. 3,127,701.
Kazienko, Henry J. 3,120,967.
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Labino, Dominick. 3,129,084.
Labino, Dominick. 3,134,659.
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McFadden, Norman E. 3,125,329.
Olszyk, Bernard J., and Shepherd. 3,138,251.
Poltorak, Emil J. 3,125,346.
Powell, Edward R. 3,133,820.
Proctor, Fred S., Smarr, Brakeley, and Mountain. 3,133,848.
Pusch, Walter G. 3,162,895.
Rairdon, Charles T., Ximenez, and Hanson. 3,130,062.
Rutter, Donald P., and Cimochowski. 3,144,069.
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Smrek, Albert R. 3,157,214.
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Streib, William C. 3,151,972.
Tharp, Clarence E. 3,151,363.
Tompkins, Sherman A., and Jackson. 3,152,034.
Walker, George P. 3,125,137.
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Di Maio, Vincent, and Miller. 3,141,809.
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Nigrelli, Biagio J., Standley, and Wittmann. 3,144,119.
Nigrelli, Biagio J., Standley, and Wittmann. 3,150,760.
Johns, Robert H. Phase modulated television camera tube. 3,158,778, 11–24–64, Cl. 315—11.
Johns, Stanley K., to St. Lawrence Mfg. Co., Inc. Skate tooth guard. 3,123,372, 3–3–64, Cl. 280—11.38.
Johns, Stanley K., to St. Lawrence Mfg. Co., Inc. Ice skate scabbard. 3,135,526, 6–2–64, Cl. 280—11.38.
Johns, Thomas D., 50% to M. H. Glover. Body rest. 3,139,-632, 7–7–64, Cl. 5—341.
Johns, William F., to G. D. Searle & Co. 17β-hydroxy-3-oxo-androst-4-en-17α ylpropionaldehyde lactol and Δ^1, Δ^6, $\Delta^{1,6}$ 19-nor- and 7α-acetylthio congeners. 3,137,690, 6–16–64, Cl. 260—239.55.
Johns, William F., to G. D. Searle & Co. Dehydro derivatives of D-homo-C-norestranes and intermediates thereto. 3,155,-729, 11–3–64, Cl. 260—590.
Johns, Winthrop A. Method and means for protecting structures, machinery, containers et al., made of steel, copper, brass, bronze or similar materials against corrosion. 3,137,642, 6–16–64, Cl. 204—148.
Johnsen, Arthur M.: *See*—
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Johnsen, Clifford N., and O. J. Wiggins, to The Trane Co. Air conditioner. 3,145,546, 8–25–64, Cl. 62—427.
Johnsen, John W., ⅛ to M. B. Johnsen and ⅜ to R. E. Johnsen. Combined burial coffin and reusable outer casket. 3,133,334, 5–19–64, Cl. 27—27.
Johnsen, Minnie B.: *See*—
Johnsen, John W. 3,133,334.
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Johnsen, John W. 3,133,334.
Johnson, Adger S.: *See*—
Hollingsworth, Donald H., Jr., Johnson, Litz, and Oliver. 3,125,421.

Johnson, Adolf E. Telescoping container. 3,134,499, 5–26–64, Cl. 220—8.
Johnson, Agnar: *See*—
Kirk, Joseph R., Allen, Johnson, and Nelson. 3,163,445.
Johnson, Agnar, deceased, by O. Nelson, administrator, and A. R. De Vito, to L. W. Menzimer, trustee. Door hinges with friction type hold-open means. 3,146,487, 9–1–64, Cl. 16—140.
Johnson, Alan B., to United States of America, Army. Pulse insertion circuit for detecting missing pulses and for inserting locally generated, synchronized pulses therefor. 3,153,762, 10–20–64, Cl. 328—63.
Johnson, Albert H.: *See*—
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Johnson, Alf A. H., and H. W. Aldrin, to Bofors, Aktiebolaget. Track roller for a track-laying vehicle. 3,147,048, 9–1–64, Cl. 308—18.
Johnson, Alfred, to William Asquith Ltd. Pre-selecting gear changing mechanisms. 3,116,645, 1–7–64, Cl. 74—334.
Johnson, Alfred L., to Inland Steel Co. Sheet marking method. 3,145,468, 8–25–64, Cl. 29—552.
Johnson, Alvin L. Fast action C-clamp. 3,147,003, 9–1–64, Cl. 269—167.
Johnson, Alvin O.: *See*—
Anderson, Ernest J., and Johnson. 3,126,840.
Johnson, Andrew L., to Ampex Corp. Velocity or frequency sensing means. 3,146,432, 8–25–64, Cl. 340—263.
Johnson, Andy A., to M & T Chemicals Inc. Chromium plating process. 3,129,149, 4–14–64, Cl. 204—29.
Johnson, Arnold E. W., and R. I. Giddings, to International Harvester Co. Tandem tractor hitch. 3,127,193, 3–31–64, Cl. 280—402.
Johnson, Arnold N., to Hooker Chemical Corp. Fire retardant polymer composition containing a dimer of hexachlorocyclopentadiene. 3,158,588, 11–24–64, Cl. 260—45.75.
Johnson, Arthur F.: *See*—
Rankin, Edward C., and Johnson. 3,135,532.
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Johnson, Arthur J., Jr., to Johnson Therapeutical Corp. Contour crutch. 3,150,672, 9–29–64, Cl. 135—52.
Johnson, Arthur L., to Hexacon Electric Co. Electric soldering iron. 3,141,088, 7–14–64, Cl. 219—236.
Johnson, Arthur S., to Brown & Sharpe Mfg. Co. Geroter type pump. 3,130,680, 4–28–64, Cl. 103—118.
Johnson, Arvid S., Jr., and C. T. Kelleher, to Progressive Tool & Die Co. Injection molding machine. 3,128,502, 4–14–64, Cl. 18—30.
Johnson, Axel H. Tape transporting means for a magnetic recorder. 3,132,788, 5–12–64, Cl. 226—184.
Johnson, Axel R., and C. E. Slyngstad, to The M. W. Kellogg Co. Cascade liquid-vapor reactor. 3,121,759, 2–18–64, Cl. 260—683.46.
Johnson, Bernard R.: *See*—
Johnson, Daniel R. and B. R. 3,118,370.
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Johnson, Bernell H.: *See*—
Johnson, Roy W. and B. H. 3,128,833.
Johnson, Bert E. Sludge removal hood and bonnet assembly for a rotary power-driven saw. 3,119,602, 1–28–64, Cl. 262—26.
Johnson, Bert E. Mobile power-actuated concrete saw with reaction supporting means therefor. 3,148,001, 9–8–64, Cl. 209—75.
Johnson, Bertil: *See*—
McVicker, Robert F., Johnson, Hansen, and Travis. 3,150,474.
Johnson, Bertil, and R. F. McVicker, to Lynch Corp. Multiple magazine for cartoning machine. 3,137,981, 6–23–64, Cl. 53—168.
Johnson, Brady G. Diaper rinsing device. 3,151,475, 10–6–64, Cl. 68—214.
Johnson Bros. Mfg. Ltd.: *See*—
Johnson, Edward A. 3,129,454.
Johnson, Carl A., to Aares Institute. Vascular recording apparatus. 3,151,458, 10–6–64, Cl. 60—54.6.
Johnson, Carl A., to Aares Institute. Vascular recording apparatus. 3,151,534, 10–6–64, Cl. 92—50.
Johnson, Carl A., Jr., to Sperry Rand Corp. Locating data in a magnetic recording system. 3,139,521, 6–30–64, Cl. 235—92.
Johnson, Carl E.: *See*—
Wolff, William F., and Johnson. 3,136,802.
Johnson, Carl E. Vine remover for potato diggers. Re. 25,668, 10–27–64, Cl. 130—30.
Johnson, Carl E., to Nalco Chemical Co. Alkali metal metalates. 3,123,486, 3–3–64, Cl. 106—162.
Johnson, Carl E., to Nalco Chemical Co. Treatment of metal surfaces to place finely divided sulfur thereon. 3,126,313, 3–24–64, Cl. 167—20.
Johnson, Carl T., G. A. Kane, M. C. Neuman, and K. A. Riach, to United States of America, Navy. Ammunition handling and loading system for major caliber guns. 3,122,967, 3–3–64, Cl. 89—46.
Johnson, Carl W. Milo topping machine. 3,143,839, 8–11–64, Cl. 56—23.
Johnson, Carl W., and M. Pedersen, to American Machine & Foundry Co. Button stitching machines. 3,121,411, 2–18–64, Cl. 112—110.
Johnson, Carl W., and M. Pedersen, to American Machine & Foundry Co. Button stitching machines. 3,132,613, 5–12–64, Cl. 112—110.
Johnson-Carper Furniture Co., Inc.: *See*—
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Johnson, Charles A., to John W. Bolton & Sons, Inc. Bottom drive pulper with stationary blades. 3,163,368, 12–29–64, Cl. 241—46.
Johnson, Charles D.: *See*—
Pehoski, Walter L., Stariha, and Johnson. 3,144,835.
Johnson, Charles D., to Fairmont Railway Motors, Inc. Apparatus for setting and driving railroad spikes. 3,163,122, 12–29–64, Cl. 104—17.
Johnson, Charles E.: *See*—
Bohn, Ralph M., Wiseman, and Johnson. 3,149,979.
Johnson, Charles F., to McEvoy Co. Pipe anchor. 3,130,987, 4–28–64, Cl. 285—146.
Johnson, Charles M., to International Business Machines Corp. Telemetry system. 3,142,837, 7–28–64, Cl. 343—100.
Johnson, Charles W.: *See*—
Brouillette, Joseph W., Jr., and Johnson. 3,159,743.
Johnson, Christopher L., to Rolls-Royce Ltd. Gas turbine engine fuel system. 3,151,658, 10–6–64, Cl. 158—36.4.
Johnson, Christopher L., and A. Jubb, to Rolls-Royce Ltd. Gas turbine engine control using plural servomotors. 3,132,-480, 5–12–64, Cl. 60—39.25.
Johnson, Clarence A., and W. Volk, to Hydrocarbon Research, Inc. Use of lined passivation chamber in an iron powder passivating process. 3,147,106, 9–1–64, Cl. 75—5.
Johnson, Clarence L.: *See*—
Harrington, John A., Broersma, Runnells, and Johnson. 3,118,158.
Johnson, Clarence T., to M.J.C. Development Co., Inc. Electromagnetic and vacuum debris collector. 3,150,404, 9–29–64, Cl. 15—339.
Johnson, Clayton R.: *See*—
Hanson, Daniel T. 3,160,147.
Johnson, Clifford D.: *See*—
Horne, Arthur L., and Johnson. 3,162,929.
Johnson, Clifford R., and T. H. Swanson, to Fred H. Schaub Engineering Co. Seal for displacer operated mechanism. 3,153,932, 10–27–64, Cl. 73—309.
Johnson, Dale E., and F. H. Lofftus, to United States of America, Atomic Energy Commission. Method of making nuclear fuel compact. 3,161,701, 12–15–64, Cl. 264—21.
Johnson, Daniel C., to National Research Development Corp. Two shoe servo brake. 3,156,322, 11–10–64, Cl. 188—78.
Johnson, Daniel R. and B. R. Carton dater. 3,118,370, 1–21–64, Cl. 101—4.
Johnson, David A., and G. A. Hardcastle, Jr., to Bristol-Myers Co. D-(—)-α-aminobenzylpenicillin trihydrate. 3,157,640, 11–17–64, Cl. 260—239.1.
Johnson, David A., and S. Wolfe, to Bristol-Myers Co. Process for the production of α-aminobenzyl-penicillins. 3,140,-282, 7–7–64, Cl. 260—239.1.
Johnson, David C.: *See*—
Norris, Frank A., and Johnson. 3,155,524.
Johnson, Dawson A. Filtering unit. 3,125,513, 3–17–64, Cl. 210—169.
Johnson, Delmar R., to Cook Electric Co. Slide changer. 3,123,925, 3–10–64, Cl. 40—79.
Johnson, Dennis T. Scale load platform lock. 3,158,217, 11–24–64, Cl. 177—134.
Johnson, Donald W., and K. R. Thompson, to General Electric Co. Uncoiler control system. 3,161,365, 12–15–64, Cl. 242—57.
Johnson, Donovan L.: *See*—
Norman, Bernard J., and Johnson. 3,126,905.
Johnson, Dora C.: *See*—
Schroeder, David W. 3,119,757.
Johnson, Douglass L., to Minnesota Mining and Mfg. Co. Matte-finish polymeric film and method of forming the same. 3,154,461, 10–27–64, Cl. 161—116.
Johnson, Earl A. N. Method and apparatus for mat forming. 3,158,668, 11–24–64, Cl 264—116.
Johnson, Earl O. Pump attachment for outboard motors. 3,135,214, 6–2–64, Cl. 103—87.
Johnson, Earl W., to Cities Service Oil Co. Interval timer. 3,140,145, 7–7–64, Cl. 346—109.
Johnson, Edward A., to Johnson Bros. Mfg. Ltd. Hide puller. 3,129,454, 4–21–64, Cl. 17—21.
Johnson, Edward E. Vehicle signal device. 3,136,289, 6–9–64, Cl. 116—28.
Johnson, Edward F. Photographic slide cartridge. 3,133,-332, 5–19–64, Cl. 24—263.
Johnson, Edward F., and R. E. Walker, to Jersey Production Research Co. Secondary recovery procedure. 3,118,499, 1–21–64, Cl. 166—9.
Johnson, Edward M., to Burroughs Corp. Electromagnetic transducer supporting assembly. 3,148,248, 9–8–64, Cl. 179—100.2.
Johnson, Edward M., and H. Epstein, to Omnitronics, Inc. Electrostatic recording head. 3,124,804, 3–10–64, Cl. 346—74.
Johnson, Edward W., Jr.: *See*—
Bennett, Donald F., and Johnson. 3,147,431.
Johnson, Edwin H., deceased, by H. B. Johnson, executrix. Method of producing alloy printing cylinders. 3,150,014, 9–22–64, Cl. 148—2.
Johnson, Edwin H., to Jandor, Inc. Printing plates. 3,152,-393, 10–13–64, Cl. 29—550.
Johnson, Edwin W., to Rotax Ltd. Protection unit for use with electrical or other apparatus. 3,119,952, 1–28–64, Cl. 317—27.

Johnson, Edwin W., and C. Paulson, to C. I. Hayes, Inc. Heat treatment furnace and conveyor therefor. 3,137,485, 6–16–64, Cl. 263—6.
Johnson, Eldon A.: *See*—
Carlson, Harold A., Johnson, and Frey. 3,160,682.
Smith, Russell F., Johnson, and Mason. 3,150,601.
Johnson, Eldon A., to ACF Industries, Inc. Carburetor. 3,160,681, 12–8–64, Cl. 261—35.
Johnson, Eldon A., to ACF Industries, Inc. Carburetor. 3,160,683, 12–8–64, Cl. 261—69.
Johnson, Elmer C., to The Vendo Co. Universal vending apparatus. 3,122,401, 2–25–64, Cl. 312—97.1.
Johnson, Ellmer C., to The Vendo Co. Vending machine rotary article carrier having capacity increasing divider structure. 3,158,417, 11–24–64, Cl. 312—97.
Johnson, Elmer C., A. V. Edmonds, and K. D. May, to The Vendo Co. Rotatable article support structure for vending machines. 3,146,043, 8–25–64, Cl. 312—97.1.
Johnson, Elmer E., and R. T. Adams, to California Research Corp. Bisulfite addition using a perester-iron salt initiator. 3,150,169, 9–22–64, Cl. 260—513.
Johnson, Elmer T.: *See*—
Reach, Roy W., Jr., Johnson, and Lourie. 3,137,797.
Johnson, Emma C.: *See*—
Johnson, William E., Dalby, and E. C. Johnson. 3,145,-449.
Johnson, Eric L.: *See*—
Booth, Gerald, Douglas, Hunter, and Johnson. 3,139,422.
Johnson, Ernest W.: *See*—
Opie, Joseph W., and Johnson. 3,161,524.
Johnson, Ernest W., and H. Packard, to Northrop Corp. Variable dynamo transformer having linearly movable armature. 3,128,441, 4–7–64, Cl. 336—30.
Johnson, Erwin E.: *See*—
Wesa, Phillip J., Brockman, Johnson, and Kickbush. 3,147,172.
Johnson, Ewell C.: *See*—
Ho, Yu C., Johnson, and McKelvie. 3,128,374.
Johnson Farm Machinery Co.: *See*—
Johnson, Roy W. and B. H. 3,128,833.
Johnson, Frank F.: *See*—
Tittman, Jay, Nelligan, Antkiw, and Johnson. 3,124,-679.
Johnson, Ford L., to Sun Oil Co. Methods and apparatus for drilling bore holes. 3,130,797, 4–28–64, Cl. 175—2.
Johnson, Forrest A., and R. J. Loskill, to Alloy Steel and Metals Co. Ripper point with breakaway portion. 3,149,-679, 9–22–64, Cl. 172—713.
Johnson, Francis, to The Dow Chemical Co. Process for the preparation of glutarimide compounds. 3,137,700, 6–16–64, Cl. 260—281.
Johnson, Francis, to The Dow Chemical Co. Process for preparing actiphenols. 3,152,130, 10–6–64, Cl. 260—281.
Johnson, Francis, to The Dow Chemical Co. Process for preparing acylated enamines. 3,153,650, 10–20–64, Cl. 260—247.2.
Johnson, Francis, to The Dow Chemical Co. 1-oxo-2-(3-glutarimidyl) ethane derivatives and preparation thereof. 3,153,651, 10–20–64, Cl. 260—281.
Johnson, Francis, and W. D. Gurowitz, to The Dow Chemical Co. Glutarimide derivatives and process for the preparation thereof. 3,138,599, 6–23–64, Cl. 260—281.
Johnson, Francis, and A. C. Paton, to The Dow Chemical Co. Process for preparation of glutarimide derivatives. 3,153,-041, 10–13–64, Cl. 260—281.
Johnson, Francis, and A. A. Carlson, to The Dow Chemical Co. Process for preparing dehydroisocycloheximides. 3,162,638, 12–22–64, Cl. 260—281.
Johnson, Francis M., to United States of America, Air Force. Chaff dispenser system. 3,137,231, 6–16–64, Cl. 102—34.4.
Johnson, Frank F., to Schlumberger Well Surveying Corp. Neutron-gamma ray well logging device for distinguishing between shale and sandstone. 3,139,528, 6–30–64, Cl. 250—83.3.
Johnson, Frank O.: *See*—
Maschi, Angelo P., and Johnson. 3,122,808.
Johnson, Frank W., to Unitek Corp. Orthodontic appliance. 3,131,474, 5–5–64, Cl. 32—14.
Johnson, Fred O., to American District Telegraph Co. Vault alarm timer switch. 3,145,271, 8–18–64, Cl. 200—38.
Johnson, Fred R., deceased, by V. R. Krogsdale, executrix, to Sta-Safe Corp. Squeeze bottle. 3,118,573, 1–21–64, Cl. 222—212.
Johnson, Frederick B.: *See*—
Leeds, Winthrop M., and Johnson. 3,147,348.
Johnson, Frederick W., to Collins Radio Co. Composite low rate spring and shock absorber. 3,130,964, 4–28–64, Cl. 267—1.
Johnson, Frederick W., to Collins Radio Co. Frequency doubler. 3,143,663, 8–4–64, Cl. 307—88.5.
Johnson, Frederick W., to Collins Radio Co. Temperature compensated inductor. 3,152,312, 10–6–64, Cl. 336—179.
Johnson, Gardner: *See*—
Vodra, Richard J., Lintell, and Johnson. 3,120,780.
Johnson, George F., and T. R. Mifflin, to Shell Oil Co. Recovery of diacetone alcohol from diacetone alcohol methyl ether by vacuum distillation. 3,134,727, 5–26–64, Cl. 202—52.
Johnson, George F., and L. C. Teague, to Shell Oil Co. Acrolein dimer production. 3,159,651, 12–1–64, Cl. 260—345.9.
Johnson, George N., to Minnesota Mining and Mfg. Co. Tape drive mechanism. 3,123,271, 3–3–64, Cl. 226—186.
Johnson, George V.: *See*—
Buchholz, Arnold R., and Johnson. 3,131,702.
Johnson, Gestur. Healing of wounds in plant products. 3,124,448, 3–10–64, Cl. 71—2.4.
Johnson, Glenn D., to Shell Oil Co. Wellhead with tool diverter. 3,139,932, 7–7–64, Cl. 166—95.
Johnson, Glenn D., to Shell Oil Co. Wellhead cementing assembly with by-pass. 3,155,175, 11–3–64, Cl. 175—7.
Johnson, Glover D.: *See*—
Bishop, John B., Johnson, Ong, and Reise. 3,135,862.
Johnson, Glover D., to United States of America, Navy. Radar elevation display. 3,154,781, 10–27–64, Cl. 343—16.
Johnson, Gordon, Co.: *See*—
Anderson, Gerald C., Mommsen, Schuette, Straub, and Zimmerman. 3,149,557.
Churchill, Adoniram J. 3,142,860.
Zebarth, Ralph S., Lewis, and Franta. 3,159,870.
Johnson, Grady. Post anchor plate. 3,132,726, 5–12–64, Cl. 189—29.
Johnson, Grady L. Safety razor. 3,127,676, 4–7–64, Cl. 30—49.
Johnson, Guy L. Decorative window shutter. 3,121,481, 2–18–64, Cl. 189—63.
Johnson, Harold C., to Corning Glass Works. Radiation-reflecting medium. 3,149,989, 9–22–64, Cl. 117—33.3.
Johnson, Harold E.: *See*—
Paine, Stuart R., Johnson, Mauch, and Sells. 3,123,837.
Johnson, Harriet B.: *See*—
Johnson, Edwin H. 3,150,014.
Johnson, Harry J.: *See*—
Hiemstra, Marvin J., Vander, and Johnson. 3,160,078.
Johnson, Helge C., and N. M. Robinson, to Certain-Teed Products Corp. Machine for handling shingles or similar sheet-like pieces 3,128,889, 4–14–64, Cl. 214—6.
Johnson, Henley B. Variable, renewable and replaceable tread pneumatic tire assemblies. 3,149,656, 9–22–64, Cl. 152—176.
Johnson, Henry. Fourdrinier wires for paper machines. 3,140,973, 7–14–64, Cl. 161—92.
Johnson, Henry C.: *See*—
Walker, Ronald E., and Johnson. 3,160,965.
Johnson, Herbert C.: *See*—
Christian, Raymond A., Johnson, Colley, and Eifort. 3,161,354.
Johnson, Herbert W. Bag closure clip. 3,140,519, 7–14–64, Cl. 24—30.5.
Johnson, Howard E., to A. B. Dick Co. Ink pad and cover. 3,138,094, 6–23–64, Cl. 101—115.
Johnson, Howard L.: *See*—
Walker, Charles R., and Johnson. 3,136,659.
Johnson, Isaac Y., ¼ to S. J. Creekmore, ¼ to W. J. Little, and ¼ to J. Little. Implement hitch. 3,151,885, 10–6–64, Cl. 280—477.
Johnson, Jacob N. Convertible shelter. 3,145,719, 8–25–64, Cl. 135—1.
Johnson, James B.: *See*—
Burgess, Hovey M., and Johnson. 3,159,505.
Johnson, James F., to Sinclair Research, Inc. Oscillograph employing galvanometer transport. 3,158,427, 11–24–64, Cl. 346—33.
Johnson, James G., to United States of America, Navy. Connector for printed or etched flat conductor cables. 3,141,720, 7–21–64, Cl. 339—176.
Johnson, James R.: *See*—
Sowman, Harold G., and Johnson. 3,129,188.
Sowman, Harold G., and Johnson. 3,163,609.
Johnson, James R., to Security Cards Research Inc. Credit card or the like. 3,152,901, 10–13–64, Cl. 96—43.
Johnson, James R., and H. G. Sowman, to Minnesota Mining and Mfg. Co. Encased fuel. 3,151,037, 9–29–64, Cl. 176—67.
Johnson, Jay L., to Electro-Voice, Inc. Stereophonic phonograph pickup. 3,117,190, 1–7–64, Cl. 179—100.41.
Johnson, Jeremiah K. Masonry guide. 3,150,449, 9–29–64, Cl. 33—85.
Johnson, Jerry R., and L. L. Johnston. Sight glass assembly. 3,125,882, 3–24–64, Cl. 73—331.
Johnson, Jesse C., to The Buckeye Cellulose Corp. Non-floating, high alpha dissolving pulp sheet. 3,119,730, 1–28–64, Cl. 162—109.
Johnson, Jesse W. Adjustable pliers. 3,161,094, 12–15–64, Cl. 81—412.
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Blomquist, George I., and Johnson. 3,148,636.
Kindseth, Harold V., Johnson, and Ludlow. 3,161,705.
Podell, Howard I., and Johnson. 3,119,021.
Robinson, Lester E., Bradfield, and Johnson. 3,145,006.
Johnson, John A. Bridging structure for trailer carrying railway cars. 3,161,153, 12–15–64, Cl. 105—458.
Johnson, John C. Transparent bowl display. 3,144,730, 8–18–64, Cl. 46—91.
Johnson, John C., to Heppenstall Co. Replaceable bit tool. 3,160,945, 12–15–64, Cl. 29—96.
Johnson, John C. and W. H. Feeder-hopper for receptacle cap. 3,135,423, 6–2–64, Cl. 221—168.
Johnson, John E., and L. D. Cropper. Method of replacing conductors in a flexible plastic conduit. 3,132,415, 5–12–64, Cl. 29—401.

Johnson, John E., and A. F. G. von Soden; said von Soden, assor. of 10% to L. R. Lopez. Receptacles with vacuum cell units or the like. 3,144,160, 8–11–64, Cl. 220—9.

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Johnson, John H., R. M. Hedrick, and J. E. Fields, to Monsanto Co. Clarification of water with copolymers containing half-amides of olefinic anhydrides. 3,157,595, 11–17–64, Cl. 210—54.

Johnson, John L., to United States of America, Army. Reflected electric wave actuated detonator. 3,125,026, 3–17–64, Cl. 102—70.2.

Johnson, John L., to The Wyatt Mfg. Co., Inc. Blending and grinding apparatus. 3,145,644, 8–25–64, Cl. 99—235.

Johnson, John R., to Owens-Illinois Glass Co. Decorating on bottles and the like. 3,146,704, 9–1–64, Cl. 101—126.

Johnson, John R., to Owens-Illinois Glass Co. Detearing apparatus. 3,146,873, 9–1–64, Cl. 198—33.

Johnson, John R., to Owens-Illinois Glass Co. Bottle handling apparatus. 3,150,758, 9–29–64, Cl. 198—25.

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Johnson & Johnson: *See*—
Amodeo, Patrick J. 3,120,670.
Billings, Orman B., and Hampton. 3,135,258.
Blackford, Benjamin B. 3,161,554.
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Johnson, Joseph F., to General Electric Co. Plug-in cable connector. 3,155,445, 11–3–64, Cl. 339—149.

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Sterner, Melvin F., Johnson, and Kerr. 3,157,168.

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Johnson, Kenneth R., to Bartelt Engineering Co., Inc. Machine for filling preformed containers. 3,125,134, 3–17–64, Cl. 141—78.

Johnson, Kenneth R., to Minneapolis-Honeywell Regulator Co. Recorder. 3,139,320, 6–30–64, Cl. 346—145.

Johnson, Kenneth R., to Bartelt Engineering Co., Inc. Filler for a packaging machine. 3,151,786, 10–6–64, Cl. 222—502.

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Johnson, Lenard W. Wheel chair with power lift means. 3,137,869, 6–23–64, Cl. 5—86.

Johnson, Leon A., and J. G. McKenna, to Sealing Corp. of America. Telescoping elevating support. 3,147,829, 9–8–64, Cl. 189—26.

Johnson, Leon D., and J. D. Fulmer, to Ametek, Inc. Bourdon gauge mounting. 3,147,623, 9–8–64, Cl. 73—418.

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Johnson, Lester C., and L. E. Cook. Adjustable book holder. 3,128,573, 4–14–64, Cl. 45—80.

Johnson, Lloyd D., R. L. Kittrell, and D. E. Meier, to Collins Radio Co. Proportional pulse servo system. 3,131,340, 4–28–64, Cl. 318—28.

Johnson, Lloyd E., to Denison-Johnson, Inc. Fishing reel clutch. 3,139,241, 6–30–64, Cl. 242—84.46.

Johnson, Louis W. Rock crusher. 3,118,623, 1–21–64, Cl. 241—207.

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Johnson, Malcolm S., to Illinois Railway Equipment Co. Car construction. 3,125,966, 3–24–64, Cl. 105—369.

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Johnson, Myron L., to International Steel Wool Corp. Soap pad. 3,121,250, 2–18–64, Cl. 15—561.

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Johnson, Oscar H., to Parker Mfg. Co. Stapler. 3,158,868, 12–1–64, Cl. 1—49.

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Johnson, Richard H., to The Upjohn Co. Solid medicinal dosage forms coated with hydroxyethylcellulose and hydrolyzed styrene-maleic anhydride copolymer. 3,132,075, 5–5–64, Cl. 167—82.
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Johnson, Robert J. Baby seat. 3,126,226, 3–24–64, Cl. 297—174.
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Johnson, Robert W., to Carrier Corp. Refrigeration apparatus for operation under low head pressure. 3,133,426, 5–19–64, Cl. 62—196.
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Johnson, Rodney W. Electronic code typewriter. 3,123,-671, 3–3–64, Cl. 178—79.
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Johnson, Roy B., J. E. Scerbo, and S. M. Brickman, to American Machine & Foundry Co. Piston. 3,150,570, 9–29–64, Cl. 92—28.
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Johnson, Roy W. and B. H., to Johnson Farm Machinery Co. Planting and cultivating device. 3,128,833, 4–14–64, Cl. 172—245.
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Johnson, Thomas F., to United States Steel Corp. Method of separating naphthoic acid isomers. 3,129,244, 4–14–64, Cl. 260—525.
Johnson, Thomas M. Sound actuated toy. 3,142,132, 7–28–64, Cl. 46—244.
Johnson, Vernie L., and W. L. Differential drive. 3,130,604, 4–28–64, Cl. 74—650.
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Johnson, Waldo O., to Weather-Seal, Inc. Door latch. 3,136,571, 6–9–64, Cl. 292—166.
Johnson, Wallace C., to Arcos Corp. Apparatus for welding by fusing a metal strip. 3,118,047, 1–14–64, Cl. 219—76.
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Johnson, Walter C., to General Devices, Inc. Diode switching circuit for delivering substantially undistorted signals employing two constant current sources. 3,126,488, 3–24–64, Cl. 307—88.5.
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Johnson, Wayne R., to Winston Research Corp. High speed, high intensity optical recording system. 3,154,371, 10–27–64, Cl. 346—108.
Johnson, Wayne W., M. Lew, and R. E. McElwain, to United Stats of America, Navy. Stabilization of aqueous alkanolamine soltuions in gas treating processes. 3,137,654, 6–16–64, Cl. 252—189.
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Johnson, Willard L.: *See*—
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Johnson, William E., deceased (E. C. Johnson, administratrix), and G. F. Dalby. Power operated reciprocating tool. 3,145,449, 8–25–64, Cl. 29—76.

Johnson, William F., to Mentmore Mfg. Co. Ltd. Writing instruments having a retractable writing point. 3,120,837, 2–11–64, Cl. 120—42.03.

Johnson, William K., to Monsanto Chemical Co. Organic phosphorus-aluminum compounds and method of preparation. 3,127,432, 3–31–64, Cl. 260—448.

Johnson, William K., to Monsanto Chemical Co. Organic phosphinyloxyaluminum compounds and the preparation thereof. 3,128,296, 4–7–64, Cl. 260—448.

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Johnson, William O. Trailer-type hydraulic jet. 3,154,290, 10–27–64, Cl. 254—8.

Johnson, Zyril A., and D. J. Gibbons. Magnetically operated shutter. 3,129,471, 4–21–64, Cl. 20—56.5.

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Johnston, Charles R. Freight loading apparatus. 3,130,690, 4–28–64, Cl. 105—369.

Johnston, Charles R., ½0 to A. F. Graf von Soden. Elevational profile transcribing apparatus from terrestrial land maps or the like. 3,140,911, 7–14–64, Cl. 346—31.

Johnston, Charles R. Nailable metal flooring. 3,152,669, 10–13–64, Cl. 189—34.

Johnston, Charles W. Arc welding and filler rod shape. 3,140,385, 7–7–64, Cl. 219—137.

Johnston, Clair R. Conveyor agitator means and controls therefor. 3,159,270, 12–1–64, Cl. 198—230.

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Johnston, Edward J., to International Harvester Co. Rake tine bar pitch adjustment. 3,151,435, 10–6–64, Cl. 56—377.

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Johnston, Howard R. Two-speed parachute. 3,140,067, 7–7–64, Cl. 244—148.

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Johnston, James D., H. Shapiro, and A. P. Giraitis, to Ethyl Corp. Stable lead alkyl compositions and a method for preparing the same. 3,133,104, 5–12–64, Cl. 260—437.

Johnston, James E., to Minnesota Mining and Mfg. Co. Adhesive composition and method of applying same. 3,136,681, 6–9–64, Cl. 161—190.

Johnston, James R.: *See*—
Budzynski, Thedore J., and Johnston. 3,157,395.

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Johnston, James V. Electron gyroscope. 3,160,018, 12–8–64, Cl. 74—5.

Johnston, James V. Air bearing double integrating accelerometer. 3,161,064, 12–15–64, Cl. 73—490.

Johnston, John, to The School Mfg. Co., Inc. Plaster of paris bandage package. 3,152,692, 10–13–64, Cl. 206—59.

Johnston, John P. Control systems for multiple pump installations. 3,133,502, 5–19–64, Cl. 103—11.

Johnston, Lawton L.: *See*—
Johnson, Jerry R., and Johnston. 3,125,882.

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Johnston, Leonard H., Jr., and V. W. Strom. Wheel bolt cover assembly. 3,135,558, 6–2–64, Cl. 301—37.

Johnston, Loren B., to Radio Corp. of America. Color kinescope display system. 3,123,667, 3–3–64, Cl. 178—5.4.

Johnston, Lowell B., to Owens-Corning Fiberglas Corp. Method of conveying and processing bodies. 3,133,386, 5–19–64, Cl. 53—26.

Johnston, Loyal L., to Herman Pneumatic Machine Co. Flask manipulating and mold forming method. Re. 25,571, 5–5–64. Cl. 22—193.

Johnston, Loyal L., to Herman Pneumatic Machine Co. Foundry method and apparatus. 3,134,147, 5–26–64, Cl. 22—20.

Johnston, Lyman C. Physical exercise apparatus including cables attachable at one end to the user's legs. 3,117,782, 1–14–64, Cl. 272—81.

Johnston, Mack S. Beer siphon assembly. 3,156,252, 11–10–64, Cl. 137—212.

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Johnston, Peter W. G., to Baker Perkins Holdings Ltd. Manufacture of hard candy. 3,125,037, 3–17–64, Cl. 107—1.

Johnston, Peter W. G., and R. G. Hewitt, to Baker Perkins Holdings Ltd. Apparatus for cutting confectionery. 3,131,652, 5–5–64, Cl. 107—4.

Johnston, Ralph O. Laminated plastic holder and closure therefor. 3,131,494, 5–5–64, Cl. 40—10.

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Brekke, Byron O., and Johnston. 3,131,371.

Johnston, Thomas L., and C. H. Li, to Minneapolis-Honeywell Regulator Co. Beryllium metal products. 3,129,497, 4–21–64, Cl. 29—182.5.

Johnston, Thomas L., and G. D. Miles, to Columbia Helicopters Inc. Apparatus for transporting articles. 3,163,401, 12–29–64, Cl. 258—1.2.

Johnston, Tomlinson F. Gang operated combination switch units each comprising a horizontally opening switch and a vertically opening bypass switch. 3,140,367, 7–7–64, Cl. 200—48.

Johnston, Walter F. Boat propelling assembly. 3,139,061, 6–30–64, Cl. 115—25.

Johnston, William D. Oxygen dispensing device. 3,127,058, 3–31–64, Cl. 2.2—5.

Johnston, William F., to Chain Belt Co. Influent distribution means for tanks. 3,147,221, 9–1–64, Cl. 210—519.

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Jolliffe, Charles N., and J. A. Parkins, to E. I. du Pont de Nemours and Co. Gauge control apparatus for manufacturing web material. 3,122,783, 3–3–64, Cl. 18—2.
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Joly, Robert, J. Warnant, and B. Goffinet, to Roussel-UCLAF, S.A. New process of preparation of 3-methyl chromone. 3,121,096, 2–11–64, Cl. 260—345.2.
Joly, Robert, J. Warnant, J. Jolly, A. Guillemette, and B. Goffinet, to Roussel UCLAF, S.A. Preparation of 21-brominated pregnanes. 3,129,219, 4–14–64, Cl. 260—239.5.
Joly, Robert, J. Warnant, and J. Jolly, to Roussel-UCLAF, S.A. Process for the preparation of a substituted tetralone. 3,134,817, 5–26–64, Cl. 260—590.
Joly, Robert, and J. Warnant, to Roussel-UCLAF, S.A. Process of preparation of steroids having a double bond in the 5,10-position. 3,136,790, 6–9–64, Cl. 260—397.4.
Joly, Robert, J. Warnant, J. Jolly, and A. Guillemette, to Roussel-UCLAF, S.A. Novel preparation of estrone. 3,150,-152, 9–22–64, Cl. 260—326.5.
Joly, Robert, J. Warnant, J. Jolly, and B. Goffinet, to Roussel-UCLAF, S.A. Novel 17-desoxy-$\Delta^{1,4}$-pregnadienes and preparation thereof. 3,161,663, 12–15–64, Cl. 260—397.45.
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Jones, Arthur B., and H. W. Fairbairn, to The Mettoy Co. Ltd. Model vehicles. 3,144,731, 8–18–64, Cl. 46—201.
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Jones, Arthur L., and E. E. Cuckson, to W. E. Cuckson & Sons Proprietary Ltd. Slide fastener stringer. 3,141,217, 7–21–64, Cl. 24—205.1.
Jones, Arthur R., to General Motors Corp. Foundry molding machine. 3,143,775, 8–11–64, Cl. 22—40.
Jones, Benjamin G., to Tidewater Oil Co. Isomerization catalyst reactivation. 3,119,885, 1–28–64, Cl. 260—683.75.
Jones, Bernice L., to Newport News Shipbuilding and Dry Dock Co. Noise attenuation apparatus for liquid conducting conduits. 3,148,745, 9–15–64, Cl. 181—48.
Jones, Bobby B., to K. MacKay, deceased; G. L. MacKay, K. H. MacKay, Jr., and J. F. MacKay, coexecutors. Individual serving tray. 3,151,577, 10–6–64, Cl. 108—46.
Jones, Bobby B., to K. MacKay, deceased; G. L. MacKay, K. H. MacKay, Jr., and J. F. MacKay, coexecutors. Tray. 3,151,578, 10–6–64, Cl. 108—46.
Jones, Carl B., and V. F. Sukle, to The Vaughn Machinery Co. Bar and wire processing machine. 3,143,786, 8–11–64, Cl. 29—33.
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Jones, Cecil M., II, to Norton Co. Slip cast calcined magnesia products. 3,133,792, 5–19–64, Cl. 23—207.
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Jones, Charles, to Curtiss-Wright Corp. Housing construction for rotary mechanisms. 3,155,311, 11–3–64, Cl. 230—145.
Jones, Charles, and R. E. Mount, to Curtiss-Wright Corp. Internal combustion engine with spark plug subject to high temperature operating conditions. 3,155,085, 11–3–64, Cl. 123—169.
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Jones, Charles E., and E. H. Sholl, to Phillips Petroleum Co. Plural magnetic reed switch. 3,151,226, 9–29–64, Cl. 200—87.
Jones, Charles H., to United States of America, Navy. Interlaced video display of sea bottom using sonic energy. 3,142,032, 7–21–64, Cl. 340—3.
Jones, Clarence O., Jr., to Niagara Machine & Tool Works. Level and slope control for reciprocating machines. 3,129,-625, 4–21–64, Cl. 83—624.
Jones, Clarence S., to General Precision, Inc. Signalling system. 3,125,753, 3–17–64, Cl. 343—6.5.
Jones, Claude K., and S. W. Martin, to General Electric Co. Workpiece support for glow discharge apparatus. 3,141,-989, 7–21–64, Cl. 313—210.
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Jones, Coy V., Sr., to Southern Machinery Co. Builder motion rewinding and tip bunch applying means for spinning frames. 3,138,339, 6–23–64, Cl. 242—26.4.
Jones, Coy V., Sr., to Southern Machinery Co. Weight operated engine starting and anti-stalling switch means. 3,143,-613, 8–4–64, Cl. 200—83.
Jones, Coy V., Sr., and W. Engels, to Southern Machinery Co. Safety valve device for fluid pressure brake systems. 3,148,693, 9–15–64, Cl. 137—118.
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Jones, Donald D., and C. A. Headley, to McDonnell Aircraft Corp. Tube cutting tool. 3,136,057, 6–9–64, Cl. 30—101.
Jones, Donald D., and C. A. Headley, to McDonnell Aircraft Corp. Portable cleaning tool and the like. 3,137,975, 6–23–64, Cl. 51—73.
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Jones, Edward M., and W. Love, to D. H. Baldwin Co. Photoelectric musical instruments and the like. 3,124,635, 3–10–64, Cl. 84—1.18.
Jones, Edwin K., to Universal Oil Products Co. Means for effecting a combined alkylation-transalkylation process. 3,126,421, 3–24–64, Cl. 260—671.
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Jones, Eldon M., to Parke, Davis & Co. Anti-inflammatory compositions. 3,144,387, 8–11–64, Cl. 167—65.
Jones, Evan, to Henry Valve Co. Refrigerant moisture-liquid indicator assembly and cap unit therefor. 3,142,287, 7–28–64, Cl. 116—117.
Jones, Gary D., to General Electric Co. Heat exchange including improved supporting bracket. 3,160,204, 12–8–64, Cl. 165—67.

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Jones, Gordon W. Rear view mirror device. 3,118,965, 1–21–64, Cl. 88—93.
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Jones, Harold D., Jr., and E. R. Sturdivant. Apparatus for terminating the flow of metered materials. 3,138,289, 6–23–64, Cl. 222—20.
Jones, Harry S. Spray gun having means to control heat concentration in metal substrate. 3,131,091, 4–28–64, Cl. 118—47.
Jones, Harry W., Jr., to The J. B. Ehrsam & Sons Mfg. Co. Water ski tow rope retriever. 3,156,429, 11–10–64, Cl. 242—86.5.
Jones, Harvey B. Boat handling and loading assembly. 3,128,893, 4–14–64, Cl. 214—450.
Jones, Herbert J. Controlling the admission of liquid to a tub in a cleaning apparatus. 3,147,765, 9–8–64, Cl. 137—406.
Jones, Herbert N., and I. C. Campsie, to United Kingdom Atomic Energie Authority. Fabrication of nuclear reactor fuel elements. 3,153,280, 10–20–64, Cl. 29—473.3.
Jones, Howard T.: *See*—
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Jones, Howard T., to General Electric Co. Transformer with heat dissipating support means. 3,160,837, 12–8–64, Cl. 336—61.
Jones, Howland B., Jr., to S. P. Lewis. Safety means for liquid dispensing nozzles. 3,148,713, 9–15–64, Cl. 141—346.
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Jones, James B., to Sonobond Corp. Positioning and splicing apparatus for positioning and splicing webs. 3,132,544, 5–12–64, Cl. 78—82.
Jones, James B., to Goodyear Aerospace Corp. Methods and apparatus for automatically guiding an airplane or the like. 3,155,969, 11–3–64, Cl. 343—7.
Jones, James B., C. F. De Prisco, and N. Maropis, to Aeroprojects Inc. Vibratory device for delivering vibratory energy at high power. 3,148,293, 9–8–64, Cl. 310—26.
Jones, James M., Jr. Surgical drainage appliance. 3,122,-139, 2–25–64, Cl. 128—275.
Jones, Jean E., to Eastman Kodak Co. Photographic emulsions containing novel fog-inhibiting addenda. 3,157,509, 11–17–64, Cl. 96—109.
Jones, Jean E., and P. H. Stewart, to Eastman Kodak Co. Photoconductive zinc oxide compositions comprising oxonol, hemioxonol, or benzylidene dyes. 3,121,008, 2–11–64, Cl. 96—1.
Jones, Jean E., J. Sagal, Jr., and C. V. Wilson, to Eastman Kodak Co. Photographic halide emulsions sensitized with alkylene oxide polymers with aliphatic amines. 3,128,183, 4–7–64, Cl. 96—107.
Jones, Jennings H., and M. R. Fenske, to Esso Research and Engineering Co. Liquid phase oxidation of alkyl-substituted aromatics. 3,162,683, 12–22–64, Cl. 260—524.
Jones, John B.: *See*—
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Wilson, Charles P., Jr., Jones, and Ciapetta. 3,124,540.
Jones, John E.: *See*—
Clark, Stephen C., Jr., and Jones. 3,213,657.
Jones, John E., to General Electric Co. Automatic control apparatus. 3,120,603, 2–4–64, Cl. 235—151.
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Williams, Sam B., and Jones. 3,143,166.
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Jones, John F. Combination scale for roof framing. 3,153,-859, 10–27–64, Cl. 33—94.
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Jones, John L. Rotatable fastener. 3,150,426, 9–29–64, Cl. 24—67.
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Jones, Keith C., to Minneapolis-Honeywell Regulator Co. Control apparatus. 3,128,678, 4–14–64, Cl. 91—413.
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Jones, Kenneth M. Dredging apparatus. 3,148,464, 9–15–64, Cl. 37—67.
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Jones, Lawrence R., to Commercial Solvents Corp. Process for the production of oximes. 3,153,090, 10–13–64, Cl. 260—566.
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La Penna, Joseph, and Jones. 3,160,251.
Jones, Lester L., to United States of America, Navy. Missile mounted loop antenna with vibration resistant series capacitors. 3,139,619, 6–30–64, Cl. 343—705.
Jones, Loren C., to McGraw-Edison Co. Insulating electrical conductors. 3,117,900, 1–14–64, Cl. 156—53.
Jones, Lorenz B., to Anderson, Clayton & Co. Clamp arm quick change fixture. 3,122,252, 2–25–64, Cl. 214—750.
Jones, Louis R., Jr., to Leeds and Northrup Co. Calibrated resistance-tremometers and the like. 3,138,776, 6–23–64, Cl. 338—28.
Jones, Loyd W., to Pan American Petroleum Corp. Waterflooding method. 3,126,952, 3–31–64, Cl. 166—9.
Jones, Loyd W., to Pan American Petroleum Corp. Paraffin removal and prevention. 3,162,601, 12–22–64, Cl. 252—8.3.
Jones, Marvin R.: *See*—
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Jones, Marvin R., to Cameron Iron Works, Inc. Wellhead apparatus utilizing tubing hangers having single lug suspension means. 3,132,880, 5–12–64, Cl. 285—142.
Jones, Marvin W., to Magnet Cove Barium Corp. Pneumatic conveyor. 3,149,884, 9–22–64, Cl. 302—53.
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Jones, Michael C., and W. Tedder, to Shell Oil Co. Contacting tray with rotatable valves. 3,143,582, 8–4–64, Cl. 261—114.
Jones, Morris L. Auto glove compartment rack. 3,123,219, 3–3–64, Cl. 211—51.
Jones, Morton E., to Texas Instruments Inc. Apparatus for growing compound semiconductor crystal. 3,154,384, 10–27–64, Cl. 23—273.
Jones, Morton E., to Texas Instruments Inc. Method of forming junctions. 3,154,446, 10–27–64, Cl. 148—189.
Jones, Otha C., to Monsanto Chemical Co. Method for producing ammonia-phosphorus pentoxide reaction products. 3,131,992, 5–5–64, Cl. 23—14.
Jones, Otis V., Jr., to Acro-Feed, Inc. Stock feeding apparatus. 3,147,653, 9–8–64, Cl. 82—2.7.
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Jones, Peter H., to Rolls-Royce & Associates Ltd. Safety devices for nuclear reactors. 3,158,545, 11–24–64, Cl. 176—36.
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Jones, Preston A., ½ to W. D. Runswick. Positive clamping and keying means for light fixtures. 3,117,730, 1–14–64, Cl. 240—78.
Jones, Preston A., ½ to W. D. Runswick. Junction box with weather-proof fixture mounting adapter. 3,137,763, 6–16–64, Cl. 174—61.
Jones, Preston A., ½ to W. D. Runswick. Pivotally mounted diffuser globe for light fixture. 3,142,445, 7–28–64, Cl. 240—73.
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Jones, Walter M., to Binks Mfg. Co. Rotor and roving cutter mounting means for a spray gun. 3,155,320, 11–3–64, Cl. 239—289.
Jones, Walter O., to The Wean Engineering Co., Inc. Means and method for forming coils of strip-like material. 3,128,960, 4–14–64, Cl. 242—78.5.
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Jones, William A., to Northrop Corp. Precision machining apparatus. 3,158,044, 11–24–64, Cl. 77—33.5.
Jones, William C. Pulmonary function analyzing device. 3,141,610, 7–21–64, Cl. 235—61.
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Jucker, Ernst, and A. J. Lindenmann, to Sandoz Ltd. Sulphonamides. 3,119,847, 1–28–64, Cl. 260—397.7.
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Jucker, Ernst, and A. J. Lindenmann, to Fidelity Union Trust Co. Thienylalkyl esters of 3-sulphamyl-4-chlorobenzoic acid. 3,162,651, 12–22–64, Cl. 260—332.2.
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Biel, John H., and Judd. 3,117,978.
Drukker, Alexander E., and Judd. 3,153,652.
Judd, Claude I., to Lakeside Laboratories, Inc. Cyclopropyl sulfonyl ureas. 3,129,247, 4–14–64, Cl. 260—553.
Judd, Claude I., and J. H. Biel, to Colgate-Palmolive Co. Alkyl-2-(1,4-benzodioxyl)-ketoximes. 3,153,657, 10–20–64, Cl. 260—340.3.
Judd, John S., to Lyon Inc. Spoked wheel cover. 3,145,062, 8–18–64, Cl. 301—37.
Judd, Sebastian F. Multiple compression baling press and shear. 3,129,656, 4–21–64, Cl. 100—98.
Judd, Sebastian F. Removable shear knife assemblies. 3,134,286, 5–26–64, Cl. 83—700.
Judd, Tyler W., to Republic Steel Corp. Apparatus for measuring surface roughness peaks. 3,123,999, 3–10–64, Cl. 73—105.
Jude, George F., and H. Miller, to Sperry Rand Corp. Aircraft automatic pilot. 3,116,899, 1–7–64, Cl. 244—77.
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Judelson, David N. 3,161,097.
Judelson, David N., to Oscar I. Judelshon, Inc. Rotary knife machine for cutting multiple rolls. 3,128,659, 4–14–64, Cl. 82—46.
Judelson, David N., to Oscar I. Judelshon, Inc. Cutting machine. 3,161,097, 12–15–64, Cl. 82—48.
Judge, Patrick J. Multi-purpose covers for containers. 3,157.304, 11–17–64, Cl. 215—41.
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Blaisdell, Donald, and Judge. 3,140,468.
Judlowe, Stephen B.: *See*—
Danielsen, Daniel, and Judlowe. 3,148,334.
Judovits, Martin. Drape pleating device and fastener. 3,132,-686, 5–12–64, Cl. 160—348.
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Schultz, Edward H., and Juds. 3,117,764.
Schultz, Edward H., and Juds. 3,120,945.
Juergens Mfg. Co., Inc.: *See*—
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Juergens, William A., to Juergens Mfg. Co., Inc. Mounting clip having attachment lip. 3,128,479, 4–14–64, Cl. 4—187.
Juggins, Cyril E., to General Motors Corp. Plunger operated electrical switches. 3,141,945, 7–21–64, Cl. 200—159.
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Juillard, Yves, to Societe Alsacienne de Constructions Mecaniques. Thread feed control device for textile machinery. 3,129,902, 4–21–64, Cl. 242—149.
Juillard, Yves, to Societe Alsacienne de Constructions Mecaniques. Selvedge formation. 3,131,728, 5–5–64, Cl. 139—54.
Juillard, Yves, to Societe Alsacienne de Constructions Mecaniques. Weaving frame having improved weft handling means. 3,157,208, 11–17–64, Cl. 139—127.
Juillard, Yves, to Societe Alsacienne de Constructions Mecaniques. Weaving frame. 3,159,186, 12–1–64, Cl. 139—127.
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Roberts, Maldwyn H., Clamp, and Jukes. 3,140,423.
Jukes, Norman A., to Joseph Lucas (Industries) Ltd. Spark ignition apparatus for internal combustion engines. 3,139,-876, 7–7–64, Cl. 123—148.
Jukes, Roy A., and B. A. Niemeier, to United States of America, Army. Liquid propellant machine gun. 3,138,990, 6–30–64, Cl. 89—7.
Julia, Marc, to Societe des Usines Chimiques Rhone-Poulenc. Dihydrochrysanthemic acid intermediates. 3,123,629, 3–3–64, Cl. 260—456.
Julia, Roger: *See*—
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Julian, Clarence L., to General Motors Corp. Spring support for ignition distributor breaker contact apparatus. 3,162,-732, 12–22–64, Cl. 200—30.
Julian, Percy L., and J. W. Cole, to Chas. Pfizer & Co., Inc. 5α,6β-dichloro - 16,17 - epoxy-allopregnane-3β-ol-20-one and esters thereof. 3,136,759, 6–9–64, Cl. 260—239.55.
Julian, Percy L., and A. Magnani, to Smith Kline & French Laboratories. 16-aminomethyl-17-alkyltestosterone derivatives. 3,149,132, 9–15–64, Cl. 260—397.4.
Julian, Percy L., E. Huang, and A. Magnani, to Smith Kline & French Laboratories. 17-substituted 2,5-pregnadiene derivatives. 3,153,061, 10–13–64, Cl. 260—397.3.
Julian, Percy L., and A. Magnani, to Smith Kline & French Laboratories. Process for the production of 11β, 12β-epoxy-pregnane-3, 20-dione. 3,153,646, 10–20–64, Cl. 260—239.55.
Julie, Loebe, to Julie Research Laboratories, Inc. Compact resistor-capacitor unit. 3,123,765, 3–3–64, Cl. 323—74.
Julie Research Laboratories, Inc.: *See*—
Julie, Loebe. 3,123,765.
Julien, Maurice F. A., to Society Usines Paulstra. Vehicles mounted on trucks. 3,121,402, 2–18–64, Cl. 105—171.
Julius, Richard F., and R. K. Carnahan, to American Machine & Foundry Co. Remote control system for combined adding machine, tax computer, and coin dispenser. 3,156,412, 11–10–64, Cl. 235—146.
Jully, Charles, to Houilleres de Bassin de Lorraine. Process for preparing extremely large cakes of coal for coking. 3,151,040, 9–29–64, Cl. 202—26.
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Junck, John A., and J. E. Scheidt, to Caterpillar Tractor Co. Fluid pressure system and control. 3,154,921, 11–3–64, Cl. 60—52.
Junck, John A., R. A. Rice, and F. H. Winters, to Caterpillar Tractor Co. Hydraulic circuit with lockout valve in common return line. 3,150,568, 9–29–64, Cl. 91—414.
June, Ronald K., A. De Benedictis, and P. H. Williams, to Shell Oil Co. Copolymers of unsaturated aldehydes and —SO_2— containing monomers and their preparation. 3,129,195, 4–14–64, Cl. 260—29.6.
June, Ronald K., and J. C. Rapean, to Shell Oil Co. Acetal production. 3,137,738, 6–16–64, Cl. 260—615.
Juneau, Lindsey P. Electro-mechanical tampers. 3,162,102, 12–22–64, Cl. 94—49.
Juneman, Joseph W. Door mortising template and holder. 3,130,760, 4–28–64, Cl. 144—144.5.
Jung, Charles H.: *See*—
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Jakobsson, Bengt F., and Jung. 3,132,739.
Jung, Georg C., to Hewlett-Packard Co. Power meter using coupled and automatically rebalanced bolometer bridges. 3,158,807, 11–24–64, Cl. 324—106.
Jung, Hermann, and W. Schroeder. Process for purifying waste-water. 3,135,687, 6–2–64, Cl. 210—47.
Jung, Jean-Pierre, and M. Hürbin, to J. R. Geigy A.-G. Disazo dyestuffs. 3,124,566, 3–10–64, Cl. 260—160.
Jung, Jean-Pierre, and M. Hurbin, to J. R. Geigy, A.G. Aminopyrazole monoazo dyestuffs. 3,136,752, 6–9–64, Cl. 260—162.
Jung, Paul, and J. L. Van Cakenberghe, to Union Carbide Corp. Resonance absorption apparatus and method for measuring magnitude and direction of a magnetic field. 3,158,802, 11–24–64, Cl. 324—.5.
Jung, Richard R., and M. Doolittle, to Clark Equipment Co. Steering linkage for retractable wheels. 3,153,544, 10–20–64, Cl. 280—43.23.
Jung, Werner: *See*—
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Jung, Werner, to Automatic Electric Laboratories, Inc. Bidirectional tape drive mechanism. 3,148,815, 9–15–64, Cl. 226—50.

Jungbluth, Georg, to Klöckner-Humboldt-Deutz Aktiengesellschaft. Rotary piston machine. 3,139,836, 7–7–64, Cl. 103—202.

Jungemann, Luther J., to Whirlpool Corp. Structure for providing improved temperature sensing in refrigeration apparatus. 3,158,005, 11–24–64, Cl. 62—156.

Junger, Miguel C.: *See*—
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Junger, Miguel C., to United States of America, Navy. Elastic wave radiator and detector. 3,142,034, 7–21–64, Cl. 340—8.

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Junghaehnel, Rudolf: *See*—
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Junghans, Frederic B.: *See*—
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Junghans, Helmut, and P. Jahn. Chiming timepiece with sound radiating diaphragm coupled with the sound producer. 3,125,987, 3–24–64, Cl. 116—169.

Jungjohann, Vernon H., to Eastman Kodak Co. Slide projector interlock system for the slide-changing and editing mechanisms. 3,143,037, 8–4–64, Cl. 88—28.

Jungk, Hans, to E. I. du Pont de Nemours and Co. Method of preparing elastomeric blend of benzene-soluble chloroprene polymer and a cross-linked chloroprene polymer. 3,147,318, 9–1–64, Cl. 260—890.

Jungk, Hans, and R. Pariser, to E. I. du Pont de Nemours and Co. Method of preparing elastomeric blend of benzene-soluble chloroprene polymer and a cross-linked chloroprene polymer. 3,147,317, 9–1–64, Cl. 260—890.

Jungk, Herbert G., to McGraw-Edison Co. Commutator connection construction. 3,124,709, 3–10–64, Cl. 310—234.

Jungmayr, Theodor: *See*—
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Jungmayr, Theodor, to Fr. Hesser Maschinenfabrik-Aktiengesellschaft, Firma. Mechanism for folding-in or folding-over the bottom parts of a bag in a bag-fabricating machine. 3,124,046, 3–10–64, Cl. 93—12.

Jungmayr, Theodor, to Fr. Hesser, Maschinenfabrik-Aktiengesellschaft, Firma. Machine for charging powdered commodities into packaging containers. 3,137,358, 6–16–64, Cl. 177—81.

Junk, Heinrich J., to Lowell Mfg. Co. Securing device for loud speaker baffles. 3,159,234, 12–1–64, Cl. 181—31.

Junker, Arnold E., ½ to B. W. Friedman. Air-borne autogyro toy. 3,161,988, 12–22–64, Cl. 46—75.

Junkins, Edmund J., to Applied Power Industries, Inc. Clamp assemblage. 3,131,747, 5–5–64, Cl. 153—32.

Junkins, Edmund J., to Applied Power Industries, Inc. Vehicle repair device. 3,131,748, 5–5–64, Cl. 153—32.

Junkins, Edmund J., to Applied Power Industries, Inc. Vehicle frame gauge. 3,151,396, 10–6–64, Cl. 33—74.

Junkunc, Bela B. Self-leveling devices. 3,117,392, 1–14–64, Cl. 45—139.

Junkunc, Bela B. Locking assembly for chair. 3,148,854, 9–15–64, Cl. 248—157.

Juntunen, Ernest W. Horizontal earth boring machine. 3,132,701, 5–12–64, Cl. 173—24.

Juptner, Wilhelm F., to Babcock Electronics Corp. Protection of relays against organic vapor. 3,124,671, 3–10–64, Cl. 200—87.

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Jurd, Leonard, to United States of America, Agriculture. Preparation of benzofuran derivatives. 3,147,280, 9–1–64, Cl. 260—343.2.

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Jurenz, Rolf, to VEB Kamera- und Kinowerke Dresden. Focusing plate for a photographic camera viewfinder. 3,149,547, 9–22–64, Cl. 95—44.

Jurgeleit, Herbert F., to United States Rubber Co. Molding apparatus. 3,121,918, 2–25–64, Cl. 18—30.

Jurgeleit, Herbert F., to United States Rubber Co. Polar microinch finish vented mold. 3,151,360, 10–6–64, Cl. 18—42.

Jurgen-Lohmann, Ludwig, and J. Kaupp, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius and Brüning. Continuous countercurrent process for the transition of substances between a liquid and a solid phase. 3,155,697, 11–3–64, Cl. 260—412.8.

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Jurisch, Wilhelm, to Daimler-Benz Aktiengesellschaft. Fuel control installation for a rotating ram jet unit on a propeller blade. 3,143,174, 8–4–64, Cl. 170—135.4.

Jury, Stanley H., to United States of America, Atomic Energy Commission. Recovery of uranium from gas mixture. 3,125,409, 3–17–64, Cl. 23—14.5.

Jusko, Andrew M.: *See*—
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Just, Matyas J., to Just Mfg. Co. Snap-in sink bowl clamping arrangement. 3,143,743, 8–11–64, Cl. 4—187.

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Justi, Eduard: *See*—
Winsel, August, and Justi. 3,150,011.

Justi, Eduard, and K.-H. Friese, to Varta Aktiengesellschaft, and Siemens-Schuckert-Werke Aktiengesellschaft. Process for producing a brittle raney-silver alloy. 3,126,273, 3–24–64, Cl. 75—.5.

Justice, Herman B.: *See*—
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Justinien, Marcel, and F. de Chabot. Elastically connected pistons for the automatic adjustment of volumetric compression ratios. 3,161,185, 12–15–64, Cl. 123—78.

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Mahoney, Ralph P., and Justus. 3,124,504.

Justus, Edgar J., to Beloit Iron Works. Controlled deflection roll. 3,119,324, 1–28–64, Cl. 100—170.

Justus, Edgar J., to Beloit Iron Works. Belt conveyor drier for web material. 3,140,930, 7–14–64, Cl. 34—156.

Justus, Edgar J., to Beloit Iron Works. Coating pan assembly. 3,150,002, 9–22–64, Cl. 118—249.

Justus, Edgar J., to Beloit Iron Works. Belt conveying arrangement in paper drying machine. 3,151,953, 10–6–64, Cl. 34—118.

Justus, Edgar J., and E. D. Beachler, to Beloit Iron Works. Torque limit control. 3,126,761, 3–31–64, Cl. 74—687.

Justus, Edgar J., and J. P. Brezinski, to Beloit Iron Works. Dual wire dewatering apparatus. 3,127,308, 3–31–64, Cl. 162—349.

Justus, Edgar J., and E. D. Beachler, to Beloit Iron Works. Web drying apparatus. 3,134,653, 5–26–64, Cl. 34—114.

Justus, Edgar J., and L. Hornbostel, Jr., to Beloit Iron Works. Stream flow valve. 3,152,617, 10–13–64, Cl. 138—43.

Justus, Edgar J., and L. H. Hess, to Beloit Iron Works. Removable hood for a drying cylinder. 3,163,502, 12–29–64, Cl. 34—114.

Juten, Milford A.: *See*—
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Jutier, Jean, to Saxby, Etablissements. Detector of passing for the railway signalling. 3,161,387, 12–15–64, Cl. 246—249.

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Juusela, Taneli and L. Method of and a device for making drain pipes. 3,120,107, 2–4–64, Cl. 61—72.6.

Juveland, Omar O., W. E. Smith, and E. F. Peters, to Standard Oil Co. Purification of polymerized alpha-olefins. 3,148,176, 9–8–64, Cl. 260—88.2.

Juvinall, James W. Electrostatic spray coating methods and apparatus. 3,155,539, 11–3–64, Cl. 118—11.

Juvonen, Onni G., to Motorola, Inc. Audio system. 3,142,724, 7–28–64, Cl. 179—1.

Juy, Lucien C. H. Derailer change-speed for mechanisms for cycles. 3,125,894, 3–24–64, Cl. 74—473.

K. C. Construction Supply Co.: *See*—
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Kaarlela, William T., to General Dynamics Corp. Chromium-titanium base alloys resistant to high temperatures. 3,131,059, 4–28–64, Cl. 75—134.
Kaatz, Herbert W., and L. Tobacman, to Randolph Mfg. Co. Vacuum regulating valve. 3,145,731, 8–25–64, Cl. 137—510.
Kabasakalian, Peter, and J. H. McGlotten, to Schering Corp. Novel electro-chemical reduction process. 3,140,989, 7–14–64, Cl. 204—75.
Kabat, Otto K. Mounting bracket for automatic fishing reels. 3,148,844, 9–15–64, Cl. 242—106.
Kabelitz, Hans, to Sucker G.m.b.H., Gebruder. Apparatus for regulation of winding machines, particularly for textile threads. 3,116,888, 1–7–64, Cl. 242—45.
Kabell, Louis J., to Ampex Corp. Wide deviation frequency modulation signal generator. 3,129,391, 4–14–64, Cl. 332—16.
Kabell, Louis J., to A. B. Dick Co. Solid state light to electrostatic charge image transducer. 3,137,857, 6–16–64, Cl. 346—74.
Kabell, Louis J., to Fairchild Camera and Instrument Corp. Semiconductor beam strain gauge. 3,161,844, 12–15–64, Cl. 338—2.
Kabell, Louis J., and E. D. Jones, to A. B. Dick Co. Method of making a monoscope tube target. 3,126,610, 3–31–64, Cl. 29—25.17.
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Kabik, Irving, to United States of America, Navy. Continuously adjustable ignition type time delay switch. 3,118,-994, 1–21–64, Cl. 200—142.
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Kach, Alfred, to Brown, Boveri & Cie, Aktiengesellschaft. Magnetohydrodynamic generator. 3,130,330, 4–21–64, Cl. 310—11.
Kach, Peter H. Tool clearance overlay. 3,161,957, 12–22–64, Cl. 33—1.
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Kachline, Harold S., to Robertshaw Controls Co. Rotary pneumatic pressure divider. 3,148,703, 9–15–64, Cl. 137—608.
Kachline, Harold S., to Robertshaw Controls Co. Linear pneumatic pressure divider. 3,150,686, 9–29–64, Cl. 137—608.
Kachline, Harold S., and J. F. Waller, to Robertshaw Controls Co. Vibration switch. 3,132,221, 5–5–64, Cl. 200—61.53.
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Kadelburg, Kurt, to International Rectifier Corp. Gold alloy solder for semiconductor devices. 3,158,471, 11–24–64, Cl. 75—165.
Kadelburg, Kurt, to International Rectifier Corp. Semiconductor and secured metal base and method of making the same. 3,159,462, 12–1–64, Cl. 29—195.
Kadin, Mels E. Easel stand. 3,122,858, 3–3–64, Cl. 35—129.
Käding, Erhard. Gas valve with electric igniting means. 3,137,339, 6–16–64, Cl. 158—124.
Kadisevskis, Edmunds, to Texas Instruments Inc. Calibrating means for a snap-acting switching mechanism. 3,133,-169, 5–12–64, Cl. 200—67.
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Kadron, Stanley F., and J. M. Tewksbury, to The Bendix Corp. Test circuit for automatic direction finder. 3,150,-373, 9–22–64, Cl. 343—117.
Kaeding, Hugo C., to General Electric Co. Solid state controlled rectifier circuits and apparatus. 3,150,307, 9–22–64, Cl. 318—345.
Kaeding, Warren W., to The Dow Chemical Co. Fungicidal phenoxy compounds. 3,121,739, 2–18–64, Cl. 260—521.
Kaeding, Warren W., to The Dow Chemical Co. Dibromophenoxy acetic acid. 3,133,118, 5–12–64, Cl. 260—521.
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Kahrilas, Peter J., to Sperry Rand Corp. Electronically scannable directional antenna. 3,141,165, 7–14–64, Cl. 343—100.
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Kaiser, Julius A. Microwave filter utilizing two resonant rings and having terminals permitting use to band pass or band reject. 3,153,209, 10–13–64, Cl. 333—73.
Kaiser, Julius A., Jr., to United States of America, Army. Spiral mode selector circuit for a two-wire archimedean spiral antenna. 3,135,960, 6–2–64, Cl. 343—858.
Kaiser, Julius A., Jr., and J. H. Little, to United States of America, Army. Spiral antenna with arms of different lengths for polarization change. 3,137,002, 6–9–64, Cl. 343—854.
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Kalbfell, David C. Toroidal core for high-Q coil. 3,150,340, 9–22–64, Cl. 336—178.

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Kaldewey, Franz, to Westfalia Separator Aktiengesellschaft. Peripheral discharge sludge collection centrifugal drum. 3,125,516, 3–17–64, Cl. 233—39.

Kale, Cass B., and B. L. Quarnstrom, to Truk-A-Door Co., Inc. Vehicle body door structure. 3,118,702, 1–21–64, Cl. 296—106.

Kaleba, Joseph J., and J. J. Wellwood, to Controls Co. of America. Plunger actuated switch construction. 3,142,-742, 7–28–64, Cl. 200—159.

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Kalish, Herbert S., and H. H. Hausner, to United States of America, Atomic Energy Commission. Uranium-tin-zirconium corrosion resistant alloy. 3,147,088, 9–1–64, Cl. 29—194.

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Kalle, Karl T. High pressure valve. 3,150,687, 9–29–64, Cl. 137—625.4.

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Kallenbach, Rudolf, to The Lubrizol Corp. Solution for forming zinc phosphate coatings on metallic surfaces. 3,161,-549, 12–15–64, Cl. 148—6.15.

Kallenberg, Karl J., to Pako Corp. Auxiliary contact printer unit for photographic printing machine. 3,155,025, 11–3–64, Cl. 95—77.5.

Kallenberg, Karl J., to Pako Corp. Optical light distribution system for a photographic projection printer. 3,157,087, 11–17–64, Cl. 88—24.

Kallenberg, Karl J., to Pako Corp. Intermittent drive unit for photographic printer machine. 3,163,342, 12–29–64, Cl. 226—141.

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Kalns, Arvid. Concrete slab forming machine. 3,143,781, 8–11–64, Cl. 25—41.

Kalns, Arvid. Concrete slab forming machine. 3,143,782, 8–11–64, Cl. 25—41.

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Kalopissis, Gregoire, and R. Bugaut, to L'Oreal. Method of dyeing live human hair. 3,117,911, 1–14–64, Cl. 167—88.

Kals, Walter, to Niagara Blower Co. Air cooled vacuum producing condenser. 3,148,516, 9–15–64, Cl. 62—305.

Kalstein, Samuel I., to Chemicals & Phosphates Ltd. Process of preparing licorice root extract. 3,131,175, 4–28–64, Cl. 260—210.

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Kalustyan, Berdj C., to United States of America, Navy. Optical system for transparency projection using point light source and compound negative lenses. 3,135,160, 6–2–64, Cl. 88—24.

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Kamborian, Jacob S. Heel seat lasting with breast line pincers. 3,130,429, 4–28–64, Cl. 12—145.
Kamborian, Jacob S. Method of lasting a shoe. 3,130,430, 4–28–64, Cl. 12—145.
Kamborian, Jacob S. Apparatus for activating shoe stiffeners. 3,138,811, 6–30–64, Cl. 12—59.7.
Kamborian, Jacob S., and H. v. d. Benken; said Benken assor. to said Kamborian. Last support. 3,120,014, 2–4–64, Cl. 12—26.
Kamborian, Jacob S., and H. v. d. Benken; said Benken assor. to said Kamborian. Hold-down for lasting machine. 3,149,354, 9–22–64, Cl. 12—14.2.
Kamborian, Jacob S., J. S. Kamborian, Jr., and R. B. Field; said Field assor. to said J. S. Kamborian and said J. S. Kamborian, Jr. Method of lasting footwear. 3,144,670, 8–18–64, Cl. 12—145.
Kamborian, Jacob S., and R. B. Dunlap; said Dunlap assor. to said Kamborian. Apparatus for applying cement to a shoe sole and applying steam to a shoe upper. 3,157,896, 11–24–64, Cl. 12—4.1.
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Kaminski, Henry J., to Le Trappeur, Inc. Boot tree. 3,145,402, 8–25–64, Cl. 12—120.5.
Kaminski, Henry J., and S. Silbovitz, to Keystone Camera Co., Inc. Editing motion picture projector. 3,143,031, 8–4–64, Cl. 88—16.
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Kammerer, Archer W., ⅓ to J. K. Lamphere and ⅓ to A. W. Kammerer, Jr. Safety weight control and compensating apparatus for subsurface well bore devices. 3,158,208, 11–24–64, Cl. 175—27.
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Kämmerlin, Heinrich, to ABG-Werke Gellschaft mit beschrankter Haftung, Firma. Distributing machine for road constructing machinery. 3,139,202, 6–30–64, Cl. 214—146.5.
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Kappen, Frieda E.: *See*—
Kappen, John W. 3,129,830.
Kappen, John W. 3,155,203.
Kappen, Jno. W.: *See*—
Kappen, John W. 3,155,203.
Kappen, John W. Nesting four wheel truck. 3,118,684, 1–21–64, Cl. 280—33.99.
Kappen, John W., deceased; F. E. Kappen, administratrix. Articulated arm assembly. 3,129,830, 4–21–64, Cl. 214—84.
Kappen, John W., deceased; F. E. Kappen, administratrix. Bumper unit. 3,146,013, 8–25–64, Cl. 293—64.
Kappen, John W., also known as Jno. W. Kappen; F. E. Kappen, administratrix. Multiple purpose door. 3,155,203, 11–3–64, Cl. 189—46.
Kappler, Rubin E., to Esso Research and Engineering Co. Particulate material transfer mechanism. 3,123,107, 3–3–64, Cl. 141—352.
Kapral, Ales M. Selenium disulfide dispersions. 3,152,046, 10–6–64, Cl. 167—87.

Kaprelian, Edward K.: *See*—
Schwartz, Morris, and Kaprelian. 3,145,616.
Schwartz, Morris, and Kaprelian. 3,159,078.
Kaprelian, Edward K. Color electrophotography. 3,140,175, 7–7–64, Cl. 96—1.
Kaprelian, Edward K. Developer for electrophotography. 3,143,508, 8–4–64, Cl. 252—62.1.
Kapteyn, Paul, to Loewe Opta A.G. Circuit arrangements of electronic flash units for photographic purposes. 3,162,786, 12–22–64, Cl. 315—241.
Kapteyn, Paul, and W. Schmidt, to Loewe Opta Aktiengesellschaft. Electronic flash unit for photographic purposes. 3,134,547, 5–26–64, Cl. 240—1.3.
Kaptur, Robert E., and J. Faust, to Ford Motor Co. Diaphragm type lock-up clutch assembly. 3,151,717, 10–6–64, Cl. 192—3.2.
Kaptur, Vincent D., Jr., J. F. McCabe, and M. C. Myal, to General Motors Corp. Accommodation checking device. 3,147,617, 9–8–64, Cl. 73—172.
Kapusta, John M., to Cutlas Tool and Mfg. Co. Vehicle locking hub. 3,125,363, 3–17–64, Cl. 287—53.
Karabinos, Joseph V.: *See*—
Rose, James S., Shine, and Karabinos. 3,137,661.
Karácsonyi, Paul, H. Bartl, and H. Zimmermann, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the treatment of textile materials. 3,150,916, 9–29–64, Cl. 8—54.
Karam, Henry J.: *See*—
Otting, Robert G., Rieke, Nagle, Karam, and Zimmerman. 3,123,655.
Karasek, Francis W., to Phillips Petroleum Co. Chromatographic analysis. 3,121,321, 2–18–64, Cl. 73—23.
Karassik, Igor J.: *See*—
Sebald, Joseph F., and Karassik. 3,151,461.
Karatzas, Charles, to Sperry Rand Corp. Pressure transducer. 3,121,332, 2–18–64, Cl. 73—398.
Karau, Norbert B., to Western Electric Co., Inc. Method of crimping. 3,121,944, 2–25–64, Cl. 29—421.
Karbin, Henry. Carrier assembly. 3,157,327, 11–17–64, Cl. 224—30.
Karbo, Richard S., to Sutone Corp. Mounting bracket for a vehicle article. 3,161,297, 12–15–64, Cl. 211—87.
Karbowiak, Antoni E., to International Standard Electric Corp. Manufacture of long haul waveguide. 3,144,072, 8–11–64, Cl. 153—67.
Karbowniczek, Stanley, to Ellis Fluid Dynamics Corp. Shock absorber. 3,131,921, 5–5–64, Cl. 267—1.
Karbowski, Sylvester, to Progressive Tool & Mfg. Co. Work-engaging and positioning device for machine tool. 3,127,710, 4–7–64, Cl. 51—135.
Karcher, Ralph E., Jr., and A. G. Cicchetti, to United Shoe Machinery Corp. Conveyor systems. 3,128,867, 4–14–64, Cl. 198—19.
Karden, Karl G., to Atlas Copco Aktiebolag. Impact clutches. 3,129,796, 4–21–64, Cl. 192—30.5.
Kardon, Stanley. Shoe attaching means for ice skate construction. 3,158,384, 11–24–64, Cl. 280—11.3.
Kardos, Otto, and W. B. Stoddard, Jr., to Hanson-Van Winkle-Munning Co. Electrodeposition of nickel. 3,152,975, 10–13–64, Cl. 204—49.
Kardulas, Rena. Hair roller holder. 3,128,882, 4–14–64, Cl. 211—13.
Kärger, Fritz, and C. Gausmann, to Reimers Getriebe K.G. Automatic chain tightening mechanism for infinitely variable cone pulley gears. 3,136,169, 6–9–64, Cl. 74—230.17.
Kargl, Godfried: *See*—
Laa, Friedrich, and Kargl. 3,128,850.
Kariba, Edwin A., and C. P. Kolthoff, Jr., to International Harvester Co. Free piston engine pendulum pump. 3,132,593, 5–12–64, Cl. 103—54.
Kariba, Edwin A., and C. P. Kolthoff, Jr., to International Harvester Co. Free piston engine hydraulic pump starting system. 3,156,088, 11–10–64, Cl. 60—14.
Karig, Erhardt: *See*—
Dittrich, Otto, Karig, and Steuer. 3,138,034.
Karig, Horace E., to United States of America, Navy. Closed cycle power plant. 3,148,508, 9–15–64, Cl. 60—64.
Karig, Howard L. Static wheel balancer. 3,122,021, 2–25–64, Cl. 73—485.
Karig, Howard L. Static wheel balancer. 3,148,546, 9–15–64, Cl. 73—486.
Karing, Paul, to Bronzavia S.A. Balanced air loaded air pressure regulator. 3,139,900, 7–7–64, Cl. 137—505.18.
Karkut, Henry E., to Henry E. Karkut, Inc. Combined paint pump and roller applicator. 3,135,005, 6–2–64, Cl. 15—547.
Karkut, Henry E., Inc.: *See*—
Karkut, Henry E. 3,135,005.
Kariss, John, and H. L. Newmark, to Hoffmann-La Roche Inc. Parenteral compositions containing benzodiazepines. 3,123,529, 3–3–64, Cl. 167—58.
Karl, Joseph M., and S. Forman, to Oxwall Tool Co., Ltd. Ratchet hand tool. 3,136,346, 6–9–64, Cl. 145—74.
Karl, Henry, and W. F. Parsells, to Karparmursan Assoc., Inc. Continuous vulcanization. 3,130,447, 4–28–64, Cl. 18—6.
Karlan, Paul. Combination boring and routing tool. 3,127,663, 4–7–64, Cl. 29—105.
Karlan, Sidney I., and D. D. Perry, to Thiokol Chemical Corp. Unsaturated diethers and method of making the same. 3,149,168, 9–15–64, Cl. 260—615.

Karlby, Henning, and W. F. Z. Lee, to Rockwell Mfg. Co. Meter drive. 3,163,041, 12–29–64, Cl. 73—231.
Karlet, Joseph G., and A. S. Tabor, to Westinghouse Air Brake Co. Freight car classification yards. 3,154,023, 10–27–64, Cl. 104—26.
Karlik, Laddie. Soft products discharge container for vending machine. 3,125,217, 3–17–64, Cl. 206—56.
Karlik, Laddie. Universal exerciser. 3,162,441, 12–22–64, Cl. 272—80.
Karlik, Laddie. Universal exerciser. 3,162,442, 12–22–64, Cl. 272—80.
Karlovitz, Bela, to Northern Natural Gas Co. Method and apparatus for the drilling of rock. 3,122,212, 2–25–64, Cl. 175—14.
Karlovitz, John E., and R. F. Onsrud, to Onsrud Machine Works, Inc. Multi-station operation workpiece supporting apparatus. 3,128,534, 4–14–64, Cl. 29—38.
Karlson, Eskil L. Pressure transducer. 3,153,936, 10–27–64, Cl. 73—398.
Karlson, Eskil L., and J. V. Kiernan, to Barnes Engineering Co. Immersed bolometers and immersion glasses therefor. 3,121,208, 2–11–64, Cl. 338—18.
Karlson, John C., to The Bendix Corp. Motor control system. 3,155,892, 11–3–64, Cl. 318—207.
Karlsson, Bertil: *See*—
Giesselmann, Hanns, and Karlsson. 3,126,849.
Karlsson, Bo A. H.: *See*—
Wallman, Knut O. L., and Karlsson. 3,154,121.
Karlsson, Elof K.: *See*—
Keller, Arthur H., and Karlsson. 3,126,690.
Karlsson, Elof K., to International Harvester Co. Crop picking and treating apparatus. 3,126,688, 3–31–64, Cl. 56—18.
Karlsson, Elof K., and E. M. Van Buskirk, to International Harvester Co. Dust dispersal apparatus. 3,126,810, 3–31–64, Cl. 98—36.
Karlsson, Elof K., and R. L. Sutton, to International Harvester Co. Snapping rolls for a corn picker. 3,139,887, 7–7–64, Cl. 130—5.
Karlstads Mekaniska Werkstad, Aktiebolaget: *See*—
Wagner, Rudolf E. 3,132,815.
Karlstedt, Sten L., and S. E. Warring, to Telefonaktiebolaget LM Ericsson. Data transmission system utilizing a start signal. 3,149,283, 9–15–64, Cl. 325—30.
Karlstrom, Karl A. S., and K. G. Östberg, deceased, by I. J. C. Allard and E. A. M. Östberg, heirs; said heirs of said Östberg, assors. to said Karlstrom. Vibrators for dental use. 3,138,366, 6–23–64, Cl. 259—1.
Karma Corp.: *See*—
Skiera, Richard J., and Phillips. 3,159,190.
Karma (New Malden) Ltd.: *See*—
Richardson, Arthur W. 3,119,438.
Karmas, George, to Ortho Pharmaceutical Corp. Dinitropyrroles. 3,151,121, 9–29–64, Cl. 260—294.7.
Karmas, George, to Ortho Pharmaceutical Corp. N-(5-nitro-thiazolyl-2)2,4-dinitropyrrole-1-acetamide. 3,156,699, 11–10–64, Cl. 260—306.8.
Karmin, Irving. Measuring instrument of the resolving type. 3,119,260, 1–28–64, Cl. 73—189.
Karner, Frank. Air conditioned seat. 3,137,523, 6–16–64, Cl. 297—180.
Karo, David. Voltage stabilizing electrical transformers. 3,129,383, 4–14–64, Cl. 323—48.
Karo, Wolf, and B. D. Halpern, to The Borden Co. Neopentyl glycol acrylate ester compositions. 3,125,480, 3–17–64, Cl. 156—310.
Karol, Kenneth N., to Radio Corp. of America. Electron discharge device. 3,119,043, 1–21–64, Cl. 315—3.55.
Karoly, Gabriel: *See*—
Kirshenbaum, Isidore, Mirviss, and Karoly. 3,141,862.
Karosen, Leon, to Youthcraft Mfg. Co. Package and method for making a garment. 3,136,412, 6–9–64. Cl. 206—45.31.
Karp, Edward C., to Sanitary Scale Co. Slicer. 3,124,185, 3–10–64. Cl. 146—102.
Karp, Harry: *See*—
Pelzer, Harold H. 3,145,724.
Karp, Jesse R.: *See*—
Buyer, Edward, Edmonds, and Karp. 3,160,883.
Karp, Raymond E., to United States of America, Navy. Parachute release mechanism. 3,153,395, 10–20–64, Cl. 114—20.
Karpak Co.: *See*—
McMiller, Urban C. 3,141,588.
Karparmursan Assoc., Inc.: *See*—
Karl, Henry, and Parsells. 3,130,447.
Karpf, Rudolf, to Helipara G.m.b.H. Parachute. 3,152,782, 10–13–64, Cl. 244—145.
Karpis, John J. Fluid regulator. 3,143,134, 8–4–64, Cl. 137—486.
Karpovich, John, to The Dow Chemical Co. Perforating and strata fracturing device. 3,118,374, 1–21–64, Cl. 102—20.
Karpovich, John, to The Dow Chemical Co. Means and method of treating wells. 3,134,437, 5–26–64, Cl. 166—42.
Karpovich, John, to The Dow Chemical Co. Metallic plug for stemming bore holes. 3,151,556, 10–6–64, Cl. 102—24.
Karpovich, John, and D. D. Setser, to The Dow Chemical Co. Method of fracturing an earth formation with a frangible implodable device. 3,151,679, 10–6–64, Cl. 166—42.
Karppinen, Charles E., to American Radiator & Standard Sanitary Corp. Liquid line thermostat. 3,157,356, 11–17–64, Cl. 236—34.
Karpus, Arthur J.: *See*—
Tift, Leo R., Karpus, Kuchta, and Hatch. 3,142,490.
Karr, Alexander, and J. J. Brighindi. Wire brush stabilizer. 3,118,162, 1–21–64, Cl. 15—180.
Karr, Michael A., Jr., to Vallee Sales & Engineering Co., Inc. Throttling and shut-off valve. 3,145,010, 8–18–64, Cl. 251—210.
Karr, Ralph J.: *See*—
Clark, Fred V., Trice, Karr, and Miller. 3,128,362.
Karrer, Weber & Cie, Armaturenfabrik und Metallgiesserei, Aktiengesellschaft: *See*—
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Karrer, Paul: *See*—
Bernauer, Karl, Karrer, and Schmid. 3,118,897.
Karsay, Bela I., and A. W. Michener, Jr., to Allied Chemical Corp. Process for decomposition of sulfuric acid waste materials. 3,123,442, 3–3–64, Cl. 23—177.
Karsberg, Ake. Apparatus for generating periodic impulses in a pressure line. 3,119,366, 1–28–64. Cl. 116—55.
Karsh, Herbert, to Epsco, Inc. Automatic sphygmomanometer. 3,126,886, 3–31–64, Cl. 128—2.05.
Karstedt, Elmer C. Core and mold units for casting concrete posts and a post formed thereby. 3,127,702, 4–7–64, Cl. 50—321.
Karstens, Edward S. Precision leveling device. 3,122,840, 3–3–64, Cl. 33—207.
Karten, Marvin J.: *See*—
Shapiro, Seymour L., Freedman, and Karten. 3,129,225.
Kartonax G.m.b.H.: *See*—
Maurer, Carl M. 3,118,673.
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Stanley, Richard B., Brinkley, and Rhino. 3,148,759.
Stanley, Richard B., and Rousseau. 3,157,974.
Karwat, Ernst, to Gesellschaft fur Linde's Eismaschinen Aktiengesellschaft. Sampling arrangement for liquid gases. 3,133,444, 5–19–64, Cl. 73—421.
Karwat, Ernst, to Gesellschaft fur Linde's Eisenmaschinen Aktiengesellschaft. Removal of nitric oxide from gas mixtures containing the same. 3,149,907, 9–22–64, Cl. 23—2.
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Kasahara, Akio: *See*—
Kojima, Hiroshi, Kasahara, and Saruta. 3,124,682.
Kasahara, Shoichi: *See*—
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Kasak, August, E. J. Dulis, and V. K. Chandhok, to Crucible Steel Co. of America. Heat resistant high strength stainless steel. 3,154,412, 10–27–64, Cl. 75—126.
Kasbohm, Martin L.: *See*—
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Kasbohm, Martin L., and D. B. McWhorter, to Union Carbide Corp. Dilution system for evaporation gas. 3,121,-999, 2–25–64. Cl. 62—48.
Kase, Nathan, 50% to F. Landesco. Container. 3,121,508, 2–18–64, Cl. 220—39.
Kasemann, Erwin. Device for protecting the eyes of welders. 3,137,784, 6–16–64, Cl. 219—147.
Kasemir, Heinz W., to United States of America, Army. Instrument for measuring electrical air-earth current. 3,121,-196, 2–11–64, Cl. 324—32.
Kashew, John A., to J. W. Sereda. Rowing device. 3,156,934, 11–17–64, Cl. 9—25.
Kashihara, Manabu. Infinitely variable speed change gear. 3,127,793, 4–7–64, Cl. 74—796.
Kashihara, Manabu. Infinitely variable speed change gear utilizing a ball. 3,154,957, 11–3–64, Cl. 74—198.
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Kaspar, Emanuel: *See*—
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Wiechert, Rudolf, Kaspar, and Schenck. 3,127,396.
Kaspar, Emanuel, R. Wiechert, M. Schenck, and A. Pepper, to Schering AG. Production of α,β-unsaturated ketosteroids having a methyl group on the β-position carbon atom. 3,134,792, 5–26–64, Cl. 260—397.4.
Kaspaul, Alfred F. and E. E., to Minnesota Mining and Mfg. Co. Information recording. 3,140,143, 7–7–64, Cl. 346—1.
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Kaspaul, Alfred F. and E. E. 3,140,143.
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Kittel, Hermann, Kohmann, and Kasper. 3,149,779.
Kasper, Frank S., and L. Lamin, to International Telephone and Telegraph Corp. Electronically controlled crosspoint switches. 3,118,973, 1–21–64, Cl. 179—18.
Kasper, John A., to Stetson China Co. Spot foil. 3,125,241, 3–17–64, Cl. 220—63.
Kasper, John A., to Stetson China Co. Molding foil. 3,135,-449, 6–2–64, Cl. 229—1.5.
Kaspers, Helmuth: *See*—
Grewe, Ferdinand, Kaspers, Sasse, and Wegler. 3,146,-161.
Kass, Bernard H. Vibration isolator. 3,144,228, 8–11–64, Cl. 248—21.

Kass, Sholom, to Fisher & Porter Co. Means for suppressing fluctuations in signal-responsive devices utilizing a self bias-adjusting class C deadband amplifier in a rebalancing servosystem. 3,153,779, 10–20–64, Cl. 340—187.

Kass, Stanley, W. W. Kirk, and D. W. Bright, to Westinghouse Electric Corp. Zirconium alloys. 3,148,055, 9–8–64, Cl. 75—177.

Kassbohrer, Karl, to Karl Kassbohrer Fahrzeugwerke G.m.b.H., firma. Six driven wheel vehicle with front and rear wheels articulated about a transverse axis. 3,161,172, 12–15–64, Cl. 115—1.

Kassbohrer, Karl, Fahrzeugwerke G.m.b.H.: *See*—
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Wahl, Georg. 3,137,514.

Kast, Howard B., to General Motors Corp. Fuel control. 3,144,074, 8–11–64, Cl. 158—36.4.

Kasten, Walter, to The Bendix Corp. Fuel quality testing device. 3,117,925, 1–14–64, Cl. 210—96.

Kasten, Walter, to The Bendix Corp. Process for making and treating edge type elements. 3,125,005, 3–17–64, Cl. 93—1.

Kasten, Walter, to The Bendix Corp. Filter unit. 3,151,071, 9–29–64, Cl. 210—232.

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Silberkuhl, Wilhelm J. Kastl, and Haeussler. 3,142,136.

Kastner, Arnold. Cigarette machine. 3,127,900, 4–7–64, Cl. 131—70.

Kastner, Valentine M., to Allied Chemical Corp. Method of effecting cyclization. 3,138,612, 6–23–64, Cl. 260—316.

Kastron, Ronald F.: *See*—
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Kastrop, Clarence J., to General Dynamics Corp. High temperature adhesive. 3,160,675, 12–8–64, Cl. 260—826.

Kaswell, Ernest R.: *See*—
Wells, Richard D., Kaswell, and Constantine. 3,123,831.

Kaswen, Morris: *See*—
Ross, Frederick W., and Kaswen. 3,153,367.

Katagiri, Hideo, H. Yamada, K. Mitsugi, R. Aoki, and M. Takahashi, to Ajinomoto Kabushiki Kaisha. Process for preparing inosinic acid. 3,150,058, 9–22–64, Cl. 195—28.

Katagiri, Hideo, H. Yamada, H. Iizuka, K. Mitsugi, S. Motozaki, M. Takahashi, and K. Komagata, to Ajinomoto Kabushiki Kaisha. Process for preparing guanylic acid. 3,152,967, 10–13–64, Cl. 195—28.

Katagote, Inc.: *See*—
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Katayama, Mitsuhiko: *See*—
Ikeda, Hiroshi, Tsuji, Shiroyanagi, Ikeda, Fujimaki, Katayama, and Sato. 3,131,136.

Katchalsky, Aharon, D. Vofsi, and S. A. Gassner. Process for production of pressure sensitive recording medium. 3,145,117, 8–18–64, Cl. 117—36.7.

Katchman, Arthur, to General Electric Co. Recording medium having an image receiving coating of a terpolymer of styrene, an aliphatic olefin and a lower alkyl acrylate. 3,118,787, 1–21–64, Cl. 117—211.

Katchman, Arthur, to General Electric Co. Recording medium having an image receiving coating of a thermoplastic epoxy resin. 3,142,585, 7–28–64, Cl. 117—211.

Katchman, Arthur, to General Electric Co. Process for making benzene-soluble phenyl silsesquioxane. 3,162,614, 12–22–64, Cl. 260—46.5.

Katchman, Arthur, and B. T. MacKenzie, Jr., to General Electric Co. Recording medium having an image receiving coating of a copolymer of styrene and N-butyl methacrylate. 3,118,786, 1–21–64, Cl. 117—211.

Katchmar, Edward M., and W. Stanford. Stockline curtain for blast furnace. 3,143,586, 8–4–64, Cl. 266—31.

Kates, Richard. Adjustable shelf support. 3,120,201, 2–4–64, Cl. 108—144.

Kates, Richard. Barbecue with adjustably supportable grid. 3,125,999, 3–24–64, Cl. 126—25.

Kath, Alfred W.: *See*—
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Kath, Alfred W., to R. P. Scherer Corp. Multidose jet injector. 3,123,070, 3–3–64, Cl. 128—173.

Kath, Henry L., Jr., and F. M. Morris. Cotton picker spindle assembly. 3,137,115, 6–16–64, Cl. 56—50.

Kathrein, Henry R., to Grain Processing Corp. Production of carotenoids by the cultivation of algae. 3,142,135, 7–28–64, Cl. 47—58.

Kato, Jiro: *See*—
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Kato, Tetusya: *See*—
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Katon, John E., to Monsanto Co. Method of increasing thermoelectric power of pyrolyzed pyromellitonitrile/alcohol reaction product. 3,142,644, 7–28–64, Cl. 252—62.3.

Katona, Gabriel P., to Corning Glass Works. Electroluminescent cell and method. 3,129,108, 4–14–64, Cl. 117—33.5.

Katona, Jeno, to Csepel Vas-es Femmuvek. Machine for the manufacture of metal cutting tools. 3,125,932, 3–24–64, Cl. 90—15.

Kats, Adrian: *See*—
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Katsaros, Constantine, and C. B. Kenaga, to Morton Salt Co. Chlorinated unsaturated hydrocarbon-isothiocyanate synergistic nematocidal compositions and method. 3,154,467, 10–27–64, Cl. 167—22.

Katscher, Ernst, and W. Moroz, to International Chemical Corp. Process for the separation of nicotinic and isonicotinic acid. 3,147,269, 9–1–64, Cl. 260—295.

Katsube, Junki: *See*—
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Katsumura, Yoshiyuki. Cleaning brush. 3,127,627, 4–7–64, Cl. 15—27.

Kattelmann, Harry R.: *See*—
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Katter, Gene S. Wide base wheel tire assembly. 3,154,126, 10–27–64, Cl. 152—9.

Katterjohn, Charles M. Display apparatus. 3,126,101, 3–24–64, Cl. 211—176.

Kattis, Theodore. Small block ice making machine. 3,144,755, 8–18–64, Cl. 62—137.

Kattis, Theodore. Flake ice maker. 3,159,010, 12–1–64, Cl. 62—354.

Katz, Alex J., to Super Sagless Spring Corp. Reclining furniture and reclining mechanism therefor. 3,162,482, 12–22–64, Cl. 297—85.

Katz, Charles, and M. E. Ryberg, to United States of America, Navy. Rotary cutlery carrier. 3,152,425, 10–13–64, Cl. 51—164.

Katz, David. Anti-skid means for automotive vehicles. 3,123,121, 3–3–64, Cl. 152—214.

Katz, David. Process and apparatus for obtaining fresh water from the sea. 3,127,330, 3–31–64, Cl. 202—46.

Katz, David L., to United States of America, Army. Combined support and chambering guide for magazine-fed cartridges with fragile projectiles. 3,123,927, 3–10–64, Cl. 42—18.

Katz, David L., to United States of America, Army. Threaded fastener having resilient escutcheon encompassing the head thereof. 3,133,580, 5–19–64, Cl. 151—41.73.

Katz, David L., and C. A. Moore, to United States of America, Army. Exchangeable revolver cylinder and cartridge indexing device. 3,145,495, 8–25–64, Cl. 42—59.

Katz, Isadore H. Thermal insulating blanket for concrete curing. 3,162,566, 12–22–64, Cl. 161—43.

Katz, Jacob. Wetting and anti-stripping aliphatic ether and polyamine chain compounds for use in connection with asphalt compositions. 3,129,106, 4–14–64, Cl. 106—273.

Katz, Jacob M. Dispensers for liquids, with measured discharge. 3,156,384, 11–10–64, Cl. 222—207.

Katz, Leon: *See*—
Turetzky, Melvin N., and Katz. 3,123,605.

Katz, Leon, to General Aniline & Film Corp. N-(1,3-dihydroxy-2-propyl)-morpholones. 3,141,881, 7–21–64, Cl. 260—247.7.

Katz, Leon S., M. N. Turetzky, and V. Tullsen, to General Aniline & Film Corp. Phthalocyanine pigments and process therefor. 3,117,974, 1–14–64, Cl. 260—314.5.

Katz, Leon, and M. N. Turetzky, to General Aniline & Film Corp. Quaternary ammonium salts of 2-aminoalkoxy substituted anthraquinones. 3,125,586, 3–17–64, Cl. 260—377.

Katz, Leonhard, to United States of America, Navy. Temperature control system. 3,132,523, 5–12–64, Cl. 74—5.

Katz, Leonhard, to Astro Dynamics, Inc. Heat radiator. 3,137,342, 6–16–64, Cl. 165—80.

Katz, Leonhard, to Astro Dynamics, Inc. Heat radiator. 3,147,801, 9–8–64, Cl. 165—185.

Katz, Leonhard, to Astro Dynamics, Inc. Heat radiator. 3,147,802, 9–8–64, Cl. 165—185.

Katz, LeRoy, to General Electric Co. Filament loading mechanism. 3,116,819, 1–7–64, Cl. 193—43.

Katz, Manfred: *See*—
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Katz, Manfred, and M. Makansi, to E. I. du Pont de Nemours and Co. Conformable bulkable non-woven web. 3,117,056, 1–7–64, Cl. 161—170.

Katz, Meyer M. Therapeutic appliance. 3,149,629, 9–22–64, Cl. 128—44.

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Katz, Peter, and M. Bromberg, to Automatic Canteen Co. of America. Escrow bucket and coin guide. 3,119,483, 1–28–64, Cl. 194—2.

Katz, Peter, and L. M. Walden, to Automatic Canteen Co. of America. Self-released candy shelf assembly. 3,126,124, 3–24–64, Cl. 221—90.

Katz, Saul N., and D. J. Donovan, to General Foods Corp. Process of making quick-cooking pasta. 3,138,462, 6–23–64, Cl. 99—85.

Katz, William J.: *See*—
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Katzen, Sol. Apparatus for treating seeds. 3,140,254, 7–7–64, Cl. 209—30.

Katzenelson, Jacob: *See*—
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Katzenstein, Miles. Muffin opener. 3,119,428, 1–28–64, Cl. 146—72.

Katzer, Melvin F., to The Dow Chemical Co. Dispersing clayey deposits. 3,122,503, 2–25–64. Cl. 252—8.55.

Katzer, Melvin F., and D. J. Pye, to The Dow Chemical Co. Control of silt load and scouring in flowing streams. 3,118,832, 1–21–64, Cl. 210—54.

Katzman, Lawrence, and R. Dublirer, to Kaz Heating Products, Inc. Collapsible heating pad for travelling. 3,130,289, 4–21–64, Cl. 219—46.
Katzschmann, Ewald, to Chemische Werke Witten. Process for the production of the ammonium salts of carboxylic acids. 3,123,632, 3–3–64, Cl. 260—475.
Katzschmann, Ewald, to Chemische Werke Witten. Process for the production of aromatic chlorocarboxylic acid chlorides. 3,152,055, 10–6–64, Cl. 204—158.
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Kauders, Randle, to Vector Mfg. Co. Short circuit protective device. 3,122,697, 2–25–64, Cl. 323—22.
Kauer, Kenneth C., to The Dow Chemical Co. Symmetrical diaryl diamidodithiopyrophosphates. 3,155,707, 11–3–64, Cl. 260—461.
Kauer, Kenneth C., to The Dow Chemical Co. O-aryl S-aryl phosphoramidodithioates. 3,162,666, 12–22–64, Cl. 260—461.
Kauertz, Eugen, to Kauertz (Proprietary) Ltd. Rotary radial-piston machine. 3,144,007, 8–11–64, Cl. 123—11.
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Kauffeld, Don B., to Foils Packaging Corp. Tear open frozen food box. 3,116,869, 1–7–64, Cl. 229—51.
Kauffeld, Don B., to Foils Packaging Corp. Pull-open container. 3,124,295, 3–10–64, Cl. 229—43.
Kauffeld, Don B., to Foils Packaging Corp. Dielectric heat sealing. 3,141,804, 7–21–64, Cl. 156—257.
Kauffman, Andrew G. Mooring device. 3,142,284, 7–28–64, Cl. 114—230.
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Kauffman, Roy D., G. A. and J. R. 3,125,227.
Kauffman, Ivan L., and D. S. Annett, to Ex-Cell-O Corp. Method and apparatus for side seaming carton blanks by application of heat. 3,122,070, 2–25–64, Cl. 93—52.
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Kauffman, Melvin R., to General Electric Co. Combination latch and interlock system. 3,141,713, 7–21–64, Cl. 312—223.
Kauffman, Melvin R., to General Electric Co. Front opening dishwasher with improved rack arrangement. 3,146,045, 8–25–64, Cl. 312—229.
Kauffman, Paul E.: *See*—
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Kauffman, Samuel H., and R. W. Holden, to United States of America, Navy. Charging valve. 3,158,351, 11–24–64, Cl. 251—322.
Kauffmann, William M., to Worthington Corp. Control of fuel introduction to engine cylinder. 3,125,085, 3–17–64, Cl. 123—120.
Kaufman, Alvin B., and L. H. Steinman, to Litton Systems, Inc. Ceramic memory element. 3,142,044, 7–21–64, Cl. 340—173.2.
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Kaufman, Arthur, to Barnes Engineering Co. Horizon sensors selectively responsive to a gaseous atmospheric component. 3,118,063, 1–14–64, Cl. 250—83.3.
Kaufman, Arthur L., to Bohn Business Machines, Inc. Electronic photocopying apparatus and method. 3,146,100, 8–25–64, Cl. 96—1.
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Kaufman, Bernard C.: *See*—
Topper, Bernard. 3,119,617.
Kaufman, David, G. S. Buccino, and A. Glick, to American Cyanamid Co. Flexible stainless steel sutures. 3,125,095, 3–17–64, Cl. 128—335.5.
Kaufman, Ernest D., R. L. Thistlethwaite, and M. G. Hughett, to Cook Electric Co. Floating fire extinguisher. 3,120,273, 2–4–64, Cl. 169—4.
Kaufman, Harold R., to United States of America, National Aeronautics and Space Administration. Ion rocket. 3,156,090, 11–10–64, Cl. 60—35.5.
Kaufman, Hiram J. Compressed air dehydrator. 3,152,877, 10–13–64, Cl. 55—30.
Kaufman, Irving, and W. H. Steier, to Thompson Ramo Wooldridge, Inc. Plasma guide microwave selective coupler. 3,155,924, 11–3–64, Cl. 333—7.
Kaufman, John E., and J. E. Ambrose, to American Gas Assn. Level control and fail safe arrangement for absorption refrigeration systems. 3,137,144, 6–16–64, Cl. 62—141.
Kaufman, Lawrence, and H. V. Moore, Jr., to Sperry Rand Corp. Aircraft control servo apparatus having signal memorizing means. 3,128,968, 4–14–64, Cl. 244—78.
Kaufman, Lloyd, and R. R. Strock, to Sperry Rand Corp. Navigation instrument for dirigible craft. 3,128,464, 4–7–64, Cl. 343—107.
Kaufman, Martin H., and J. S. Davidson. Novel pyrotechnics. 3,122,462, 2–25–64, Cl. 149—35.
Kaufman, Maxime G., and L. O. Hayden. Satellite tracking by simulator comparison. 3,125,756, 3–17–64, Cl. 343—113.
Kaufman, Melvin M.: *See*—
Bergman, Richard H., Cornish, and Kaufman. 3,133,206.
Hill, James J., and Kaufman. 3,143,662.
Kaufman, Melvin M., to Radio Corp. of America. Tunnel diode switch circuits for memories. 3,119,985, 1–28–64, Cl. 340—173.
Kaufman, Melvin M., to United States of America, Navy. Tunnel diode memory with capacitive sensing. 3,131,378, 4–28–64, Cl. 340—173.
Kaufman, Melvin M., to Radio Corp. of America. Unidirectional tunnel diode pulse circuits. 3,142,768, 7–28–64, Cl. 307—88.5.
Kaufman, Melvin M., to Radio Corp. of America. Bipolar pulse pair circuits employing two tunnel diodes each operating in a monostable mode. 3,142,769, 7–28–64, Cl. 307—88.5.
Kaufman, Melvin M., and F. N. Weigel, to Radio Corp. of America. Stabilized negative resistance diode circuit. 3,143,660, 8–4–64, Cl. 307—88.5.
Kaufman, Morris: *See*—
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Hare, Wilbert K., and Kaufman. 3,160,308.
Kaufman, Murray, and R. F. Wilde, to General Electric Co. Nickel base alloy. 3,155,501, 11–3–64, Cl. 75—171.
Kaufman, Samuel J.: *See*—
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Kaufman, Sherman H. Liquid spray washing apparatus. 3,128,949, 4–14–64, Cl. 239—312.
Kaufman, Theodore P.: *See*—
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Kaufman, Theodore P., to Collins Radio Co. Gate with adjustable voltage reference level. 3,123,721, 3–3–64, Cl. 307—88.5.
Kaufman, Tibor. Paper clamping device. 3,122,802, 3–3–64, Cl. 24—66.
Kaufman, Vernon R.: *See*—
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Kaufman, Vernon R. Handle controlled vehicle. 3,150,735, 9–29–64, Cl. 180—19.
Kaufman, Vernon R. Knockdown golf bag cart. 3,150,736, 9–29–64, Cl. 180—19.
Kaufman, William M., to Westinghouse Electric Corp. Monolithic semiconductor structure comprising at least one junction transistor and associated diodes to form logic element. 3,136,897, 6–9–64, Cl. 307—88.5.
Kaufman, William M., to Westinghouse Electric Corp. Adjustable resistance-capacitance band pass filter using integral semiconductor having two reverse biased junctions. 3,148,344, 9–8–64, Cl. 333—70.
Kaufmann, Albert R.: *See*—
Klein, Joseph L., Kaufmann, and Loewenstein. 3,140,-108.
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Kaufmann, Carl P., to Ellicott Machine Corp. Control arrangement for dredge ladder. 3,125,819, 3–24–64, Cl. 37—54.
Kaufmann, Ernst, to Gebrueder Buehler. Method for producing alimentary paste foods from starchy flours of low protein content. 3,162,536, 12–22–64, Cl. 99—85.
Kaufmann, Frank H., to Steel Heddle Mfg. Co. Loom harness. 3,155,118, 11–3–64, Cl. 139—91.
Kaufmann, Frank H., to Steel Heddle Mfg. Co. Attachment of ribbon and the like to spool barrel. 3,161,372, 12–15–64, Cl. 242—176.
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Kaufmann, Henry H., and J. F. Lawrence, to Cargill, Inc. Preparation of a cereal-full fat soybean food product. 3,141,776, 7–21–64, Cl. 99—80.
Kaufmann, James J.: *See*—
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Kaufmann, John, to General Precision, Inc. Reversible counter. 3,132,262, 5–5–64, Cl. 307—88.5.
Kaufmann, John J., to Steel Heddle Mfg. Co. Loom harness. 3,151,634, 10–6–64, Cl. 139—92.
Kaufmann, John J., to Steel Heddle Mfg. Co. Loom harness. 3,154,108, 10–27–64, Cl. 139—92.
Kaufmann, John J., to Steel Heddle Mfg. Co. Loom harness. 3,154,109, 10–27–64, Cl. 139—92.
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Kaufmann, Raymond E., to Minneapolis-Honeywell Regulator Co. Control apparatus. 3,119,582, 1–28–64, Cl. 244—77.
Kaufmann, Waldemar, to Siemens-Planiawerke Aktiengesellschaft fur Kohlefabrikate. Double-conical nipple joint for carbon electrodes. 3,134,616, 5–26–64, Cl. 287—127.
Kaufmann, Waldemar, E. Fitzer, H. Pfleiderer, A. Pelz, and W. Hub, to Siemens-Planiawerke Aktiengesellschaft fur Kohlefabrikate. Method of producing a cemented carbon electrode joint. 3,140,967, 7–14–64, Cl. 156—91.
Kaulen, Robert, to Dr. Bekk & Kaulen Chemische Fabrik G.m.b.H. Apparatus for coating printing forms for photogravure and the like. 3,117,028, 1–7–64, Cl. 118—404.
Kaulen, Robert, to Dr. Bekk & Kaulen Chemische Fabrik G.m.b.H. Apparatus for handling plates to be prepared as printing forms. 3,124,485, 3–10–64, Cl. 118—643.
Kaulen, Robert, to Dr. Bekk & Kaulen Chemische Fabrik G.m.b.H. Continuous exposure of printing blocks or cylinders for intaglio printing or the like. 3,126,808, 3–31–64, Cl. 95—75.

Kaulen, Robert. Process for producing intaglio printing plates or cylinders for photogravure printing. 3,154,415, 10–27–64, Cl. 96—37.
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Kaupp, Josef, A. Thalhofer, H. Träger, and W. Sapper, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Brüning. Process for the manufacture of valuable bright drying polish waxes. 3,143,431, 8–4–6, Cl. 106—8.
Kaupp, Josef, and A. Thalhofer, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Hard ester waxes and process for their manufacture. 3,132,164, 5–5–64, Cl. 260—410.5.
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Kauppi, Jerome F., and C. L. Almich, to Northrop Corp. Engaging and disengaging device for multi-pin electrical connectors. 3,117,370, 1–14–64, Cl. 29—206.
Kaus, Peter E., and H. Rosenthal, to Radio Corp. of America. Art of making electron-sensitive mosaic screens. 3,152,900, 10–13–64, Cl. 96—35.
Kauss, James M., to F & M Scientific Corp. Method and means of controlling the rate of fluid flow. 3,143,145, 8–4–64, Cl. 138—43.
Kauss, James M., to F & M Scientific Corp. Apparatus for accurately measured dispensation of material. 3,155,289, 11–3–64, Cl. 222—253.
Kautsky, George J., M. R. Barusch, and W. L. Richardson, to California Research Corp. Gasoline composition containing tetravinyl lead and aromatic hydrocarbons. 3,148,959, 9–15–64, Cl. 44—69.
Kautsky, George J., E. G. Lindstrom, and M. R. Barusch, to California Research Corp. Gasoline compositions containing mixtures of phosphates of amino alkylene amides. 3,150,941, 9–29–64, Cl. 44—63.
Kautz, Harry P., to Mine and Smelter Supply Co. Overload release mechanism. 3,122,992, 3–3–64, Cl. 100—50.
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Kavalar, Alfred, to Kelsey-Hayes Co. Wrench. 3,125,910, 3–24–64, Cl. 81—121.
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Kavanaugh, Richard J., to Consolidated Electronics Industries Corp. Coupled synchronous motor assembly and method of coupling synchronous motors. 3,135,886, 6–2–64, Cl. 310—112.
Kaveckas, Benedictus K., and E. C. Raney, to The Wilcolator Co. Thermally responsive power means. 3,163,045, 12–29–64, Cl. 73—368.2.
Kaveggia, Frederick S., and R. B. Roessler, to Purex Corp., Ltd. Composition and process for treating aluminum. 3,138,485, 6–23–64, Cl. 134—3.
Kaveney, Thomas F., and R. F. Merkert, to Union Carbide Corp. Columbium addition agent. 3,143,788, 8–11–64, Cl. 29—182.
Kavesh, Sheldon, A. J. Rosenthal, and G. W. Halek, to Celanese Corp. of America. Polymerization process. 3,156,681, 11–10–64, Cl. 260—93.7.
Kawabata, James S. Movable gauge. 3,137,946, 6–23–64, Cl. 33—149.
Kawabata, James S. Dynamic torque meter. 3,163,037, 12–29–64, Cl. 73—136.
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Kawaguchi, Hiroshi, H. Koshiyama, and M. Okanishi, to Bristol-Banyu Research Institute, Ltd. Antibiotic cirramycin and its production. 3,159,540, 12–1–64, Cl. 167—65.
Kawahara, Fred K.: *See*—
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Kawaji, Akira, to Nippon Electric Co., Ltd. Method of manufacturing semiconductor devices. 3,134,699, 5–26–64, Cl. 148—1.5.
Kawaji, Akira, to Nippon Electric Co., Ltd. Transistor amplifier enclosed in an atmosphere of camphor naphthalene or combination thereof. 3,157,833, 11–17–64, Cl. 317—234.
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Kay, Casimir T. Rotary drill bits. 3,118,511, 1–21–64, Cl. 175—397.
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Siegart, William R., Odell, Toettcher, and Kay. 3,125,524.
Krug, Robert H., Tierney, Knowles, and Kay. 3,125,527.
Kay, Edward L., to Texaco Inc. Titanium compound and lubricating composition containing said compound. 3,134,737, 5–26–64, Cl. 252—42.7.
Kay, Edward L., R. B. Tierney, R. H. Krug, and C. J. Henry, to Texaco Inc. Method of lubricating automotive vehicles. 3,125,528, 3–17–64, Cl. 252—49.6.
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Kay, James C. Telephone amplifier. 3,136,852, 6–9–64, Cl. 179—1.
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Kay, John D., to Burke Concrete Accessories, Inc. Clamp bracket for concrete forms. 3,128,525, 4–14–64, Cl. 25—131.
Kay, John G., and A. L. Osinski, to F. Jos. Lamb Co. Reciprocating pusher-type conveyor. 3,128,875, 4–14–64, Cl. 198—221.
Kay, John G., and A. L. Osinski, to F. Jos. Lamb Co. Reciprocating pusher-type conveyor. 3,128,876, 4–14–64, Cl. 198—221.
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Kayser, John A., to Dana Corp. Flexible coupling. 3,137,148, 6–16–64, Cl. 64—11.
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Kazakov, Nicolay F. Method of diffusion joining in vacuum of metals, alloys and materials different in kind. 3,158,-732, 11–24–64, Cl. 219—117.
Kazakowitz, Harry D. Hand dump truck. 3,160,439, 12–8–64, Cl. 298—2.
Kazan, Eugene I. Photoelectric pressure transducer. 3,159,-750, 12–1–64, Cl. 250—231.
Kazenas, Zenon, and R. A. Ward, to J. D. Steele. Radioactive magnetic flaw detection composition and process for making same. 3,155,622, 11–3–64, Cl. 252—62.5.
Kazienko, Henry J., to Johns-Manville Corp. Coated grooves for pipe coupling. 3,120,967, 2–11–64, Cl. 285—231.
Kazienko, Henry J., to Johns-Manville Corp. Pipe coupling. 3,137,509, 6–16–64, Cl. 277—170.
Kazmin, Vadim S., V. N. Komarov, I. N. Kudryashov, and B. S. Antonov. Device for automatic feed of cutting bit in well drilling. 3,155,172, 11–3–64, Cl. 173—6.
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Mosher, Wesson G., and Kazura. 3,137,190.
Keahey, Frank S., Jr., to Kimberly-Clark Corp. Manufacture of cellulosic products. 3,136,649, 6–9–64, Cl. 117—4.
Kealy, Joseph P., and K. H. Eggers, to Swift & Co. High nitrogen complete mixed fertilizers. 3,119,683, 1–28–64, Cl. 71—29.
Kealy, Thomas J., to E. I. du Pont de Nemours and Co. Dicyanomethylenepyridazine. 3,133,064, 5–12–64, Cl. 260—250.
Kean, George W., 50% to Angelo J., Albert J., and R. A. Roncari. Variable pitch propeller. 3,145,780, 8–25–64, Cl. 170—160.13.
Kean, James S., Sr., and W. R. Lindsley, to Libbey-Owens-Ford Glass Co. Shipping apparatus for sheets or plates. 3,147,860, 9–8–64, Cl. 206—62.
Kean, Jeremiah H. B., Jr.: *See*—
Wilson, John A., III, Kean, and Martin. 3,119,595.
Kean, Wallace R., and D. L. Timberlake. Mounted abrasive stone and method of making same. 3,142,138, 7–28–64, Cl. 51—206.
Kearby, Kenneth K., J. P. Thorn, and J. A. Hinlicky, to Esso Research and Engineering Co. Reactivation of regenerated noble metal catalysts with gaseous halogens. 3,134,732, 5–26–64, Cl. 208—140.
Kearley, Richard I., Jr.: *See*—
Lee, Robert E., and Kearley. 3,156,878.
Kearney, James R.: *See*—
Bernatt, Joseph. 3,148,252.
Bernatt, Joseph, and Kearney. 3,134,865.
Bridges, Ronald P., and Pierzchala. 3,144,536.
Kearney, John A., to E. F. Houghton & Co. Metal esters. 3,158,573, 11–24–64, Cl. 252—33.6.
Kearney, Thomas J., to Detrex Chemical Industries, Inc. Through-type solvent washer. 3,144,872, 8–18–64, Cl. 134—72.
Kearney, Thomas J., W. McGee, B. A. Young, and G. A. Jacobs, to Detrex Chemical Industries, Inc. Apparatus for detergent-solvent degreasing. 3,120,853, 2–11–64, Cl. 134—74.
Kearney, Thomas J., and B. A. Young, to Detrex Chemical Industries, Inc. Metal degreasing apparatus. 3,123,083, 3–3–64, Cl. 134—60.
Kearney & Trecker Corp.: *See*—
Brainard, Wallace E. 3,125,796.
Brainard, Wallace E., and Behrendt. 3,124,017.
Brainard, Wallace E., Hansen, Sedgwick, Sipek, and Baechle. Re. 25,583.
Crowe, John E., Osburn, Stobbe, Weber, and Zankl. 3,163,087.
Fotsch, Arthur H., Fischer, and Ross. 3,118,332.
Gleisner, William C., Jr. 3,163,291.
Hansen, John A., Parske, and Riedel. Re. 25,670.
Opferkuch, Heinz B. 3,119,307.
Riedel, Kurt A. 3,133,349.
Sedgwick, Robert K. 3,151,494.
Wetzel, Theodore A., and Stoner. 3,127,613.
Kearney, William J. Packaging device. 3,122,304, 2–25–64, Cl. 229—51.
Kearns, Robert W., and K. J. Law, to K. J. Law, Engineers. Bi-directional step motor drive voltage divider switching apparatus. 3,123,753, 3–3–64, Cl. 318—29.
Kearny, Cresson H. Shelter ventilation system. 3,120,167, 2–4–64, Cl. 98—39.
Kearsley, Thomas, to Gullick Ltd. Roof supports for mines. 3,159,003, 12–1–64, Cl. 61—45.
Keasler, Ben C., to Lok-Fast, Inc. Blind bolt installation tool with preloaded torque-responsive driving mechanism. 3,128,655, 4–14–64, Cl. 81—55.
Keasler, Ben C. Internal knurling of bushing bosses. 3,133,-344, 5–19–64, Cl. 29—401.
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Keating, Harry M., and P. D. Montgomery, to Monsanto Chemical Co. Purification of vinyl chloride. 3,125,607, 3–17–64, Cl. 260—656.
Keating, Henry E. Expendable grain car door. 3,149,664, 9–22–64, Cl. 160—113.
Keating, James P., and E. J. Skerkoske, to Eclipse Fuel Engineering Co. Fluid proportioning apparatus. 3,140,741, 7–14–64, Cl. 158—119.
Keating, Jerome V. Self thinning collapsible cigarette package. 3,125,213, 3–17–64, Cl. 206—41.
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Tedeschi, Anthony, and Keating. 3,148,285.
Keating, John H., to Monarch Aluminum Mfg. Co. Inclined furnace. 3,123,658, 3–3–64, Cl. 266—33.
Keating, John W., to Wallace & Tiernan Inc. Pharmaceutical preparations comprising phosphorus containing cation exchange resins having a basic drug adsorbed thereon; and treatment therewith. 3,143,465, 8–4–64, Cl. 167—65.
Keating, Richard T. Oven construction. 3,118,436, 1–21–64, Cl. 126—19.
Keats, George H.: *See*—
Blackhall, Alexander, Hall, and Keats. 3,121,713.
Keats, John B. Flagstaff. 3,119,370, 1–28–64, Cl. 116—173.
Keats, John B. Portable sign. 3,119,588, 1–28–64, Cl. 248—158.
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Kebbon, Earl R., to Curtiss-Wright Corp. Aircraft training apparatus for visual landing approach. 3,122,845, 3–3–64, Cl. 35—12.
Keck, Albert: *See*—
Kissinger, Heinrich, Arzt, and Keck. 3,126,995.
Keck, Arthur C.: *See*—
Herr, Robert W., and Keck. 3,117,771.
Keck, James D. Christmas tree stand. 3,142,269, 7–28–64, Cl. 108—20.
Keck, James W. Switch operating attachment. 3,142,744, 7–28–64, Cl. 200—172.
Keck, Max H., to The Goodyear Tire & Rubber Co. Purification of bis beta hydroxyethyl terephthalate. 3,120,560, 2–4–64, Cl. 260—475.
Keck, Max H., to The Goodyear Tire & Rubber Co. Method for preparing polymer using a columbium compound as a catalyst. 3,127,375, 3–31–64, Cl. 260—75.
Keck, Max H., to The Goodyear Tire & Rubber Co. Diphenol terephthalate-diphenol isophthalate copolyesters. 3,133,898, 5–19–64, Cl. 260—47.
Keck, Max H., to The Goodyear Tire & Rubber Co. Production of highly polymeric linear polyesters. 3,142,733, 7–28–64, Cl. 260—75.
Keda, Miloslav: *See*—
Nagy, Vojtech, Dvorak, Sisler, Keda, Kerko, and Zembery. 3,130,114.
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Keeble, David. Machine for securing together the end turns of upholstery springs. 3,160,180, 12–8–64, Cl. 140—3.
Keech, Dana E.: *See*—
Keech, Roger A. 3,153,300.
Keech, Roger A., 25% to D. E. Keech. Air powered walking toy. 3,153,300, 10–20–64, Cl. 46—150.
Keedwell, Cyril A.: *See*—
Pall, David B., and Keedwell. 3,158,532.
Keefe, Arthur. Tire valve. 3,154,128, 10–27–64, Cl. 152—430.
Keefe, James T., to California Press Mfg. Co. Cooling tower. 3,143,397, 8–4–64, Cl. 34—174.
Keefe, Lincoln M., to International Postal Supply Corp. Coin controlled apparatus. 3,126,994, 3–31–64, Cl. 194—1.
Keefe, Vernon W., ½ to J. W. Williams. Rotary hydraulic propulsion unit. 3,139,062, 6–30–64, Cl. 115—35.
Keefer, David E.: *See*—
Franck, Abraham, and Keefer. 3,151,317.
Keefer, David E., to Sperry Rand Corp. Parallel interrogation of computer memories. 3,155,945, 11–3–64, Cl. 340—174.
Keel, Adolf. Flow dividers. 3,135,283, 6–2–64, Cl. 137—118.
Keel, Adolf. Power transmission. 3,155,047, 11–3–64, Cl. 103—161.
Keeler Brass Co.: *See*—
Jakeway, Gerald V. 3,127,206.
Jakeway, Gerald V. 3,153,806.
Roossien, Elmer J. 3,135,010.
Keeler, Charles H. Ophthalmic instruments. 3,131,695, 5–5–64, Cl. 128—395.
Keeler, Harry A. Toothbrush assembly with a removable and rechangeable dentifrice container. 3,148,684, 9–15–64, Cl. 132—84.
Keeleric, George F.: *See*—
Mittelmann, Eugene. 3,117,919.
Keeling, Harold G., to K. Tower. Electronic sirens. 3,137,-846, 6–16–64, Cl. 340—384.
Keeling, Kermit B., Sr., and W. E. Lewis, to General Electric Co. Oven viewing window for domestic range. 3,151,612, 10–6–64, Cl. 126—200.
Keely, Clifford D., and R. J. Baisley, to General Corrugated Machinery Co., Inc. Carton length controlled tape server. 3,126,299, 3–24–64, Cl. 118—4.
Keen, Elsworth, and F. W. Cline. Apparatus for indicating and marking declinations and elevations in highways and other surfaces. 3,136,070, 6–9–64, Cl. 33—174.
Keen, Harry J., T. C. Laugesen, and I. Forman, to Lavoie Laboratories, Inc. Electronic counter. 3,158,854, 11–24–64, Cl. 340—347.
Keen, James L.: *See*—
Floyd, Don E., Ess, Keen, and Opie. 3,138,473.

Keen, James L., and R. W. Westeen, to General Mills, Inc. Process of splitting and hulling guar beans. 3,132,681, 5–12–64, Cl. 146—221.8.

Keen, John M.: *See*—
Steel, Thomas, Robinson, and Keen. 3,131,007.

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Davies, David O., Keen, and Hensman. 3,135,562.
Davies, David O., Robinson, and Keen. 3,147,913.
Robinson, Norman R., and Keen. 3,118,593.

Keen, John M. S., to Rolls-Royce Ltd. Gas turbine engines. 3,148,504, 9–15–64, Cl. 60—39.31.

Keen, John M. S., J. R. Simpson, and G. A. K. Pope, to Rolls-Royce Ltd. Oil discharge pump for a gas turbine engine. 3,154,919, 11–3–64, Cl. 60—39.08.

Keen, William A., Jr., A. J. Damasca, and L. Rabins, to General Electric Co. Shielding of foil wound electrical apparatus. 3,142,029, 7–21–64, Cl. 336—84.

Keenan, John G., J. Palfreyman, J. B. Holliday, and D. J. Pickerell, to Rolls-Royce Ltd. Gas turbine engines. 3,118,-276, 1–21–64, Cl. 60—35.6.

Keenan, John G., J. Palfreyman, and F. Freeman, to Rolls-Royce Ltd. Gas turbine engines. 3,161,019, 12–15–64, Cl. 60—35.6.

Keenan, Patrick J.: *See*—
Cohen, Murray S., Perry, and Keenan. 3,120,566.

Keene, William A., to Phillips Petroleum Co. Bag closing machine. 3,150,477, 9–29–64, Cl. 53—370.

Keene, William A.: *See*—
Bennett, Richard J., and Keene. 3,138,369.

Keene, William A., to Phillips Petroleum Co. Apparatus for loading containers. 3,120,249, 2–4–64, Cl. 141—172.

Keene, William A., and R. W. Matthews, to Phillips Petroleum Co. Package wrapping. 3,135,078, 6–2–64, Cl. 53—214.

Keene, William A., and N. T. Blasor, to Phillips Petroleum Co. Bag closing machine. 3,150,478, 9–29–64, Cl. 53—370.

Keener, Everett L., and W. L. Roberts, to United States Steel Corp. Apparatus for cutting elongated articles to accurate length. 3,141,367, 7–21–64, Cl. 83—170.

Keener, Russell W., to Jet Set Corp. Means for setting tubular bodies. 3,155,164, 11–3–64, Cl. 166—63.

Keeney, William G., Jr., to Socony Mobil Oil Co., Inc. Tank battery fill control. 3,151,626, 10–6–64, Cl. 137—121.

Keeprite Products Ltd.: *See*—
Woods, Norman W. 3,122,895.

Keeran, Royal V.: *See*—
Fiske, Paul E., Keeran, Dawirs, Higgins, Terp, Humpherys, Szewzuk, Fischer, and Naylor. 3,156,895.

Keesee, Roland R. Method and apparatus for manufacturing cardboard molding. 3,156,599, 11–10–64, Cl. 156—196.

Keesling, Clifford E., to Machine Design Corp. Reciprocating saw with improved lubrication. 3,146,810, 9–1–64, Cl. 143—68.

Keesling, Thomas B., to FMC Corp. Fruit preparation machine. 3,156,277, 11–10–64, Cl. 146—52.

Keetch, William A., to Robinson Technical Products, Inc. Shock and vibration isolator for machinery and the like. 3,146,979, 9–1–64, Cl. 248—20.

Keeton, Eugene G. Seed planter. 3,148,644, 9–15–64, Cl. 111—79.

Kefalas, A/S: *See*—
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Kehe, Alfred W., to Continental Can Co., Inc. Closure member gasket compositions. 3,134,496, 5–26–64, Cl. 215—40.

Kehl, Elisabeth K.: *See*—
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Kehl, Henry. Rotary engine. 3,132,632, 5–12–64. Cl. 123—16.

Kehl, Howard A. Safety belt billfold. 3,147,896, 9–8–64, Cl. 224—26.

Kehl, Leslie L. Teaching machine. 3,144,720, 8–18–64, Cl. 35—9.

Kehl, William L., and M. M. Stewart, to Gulf Research & Development Co. Process for preparing alumina hydrate having 1.2 to 2.6 moles of water of hydration. 3,151,939, 10–6–64, Cl. 23—143.

Kehl, William L., and M. M. Stewart, to Gulf Research & Development Co. Process for producing alumina hydrate having 1.2 to 2.6 moles of water of hydration. 3,151,940, 10–6–64, Cl. 23—143.

Kehler, Theodor K., to Hoerbiger Ventilwerke A.G. Concentric valve combination. 3,124,154, 3–10–64, Cl. 137—338.

Kehoe, James E.: *See*—
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Kehoe, Norman T., and J. F. Scantland, to United States Rubber Co. Apparatus and process for abrading tire sidewalls. 3,128,579, 4–14–64, Cl. 51—106.

Kehr, Clifton L., to W. R. Grace & Co. Production of highly oxidized polyolefins. 3,155,644, 11–3–64, Cl. 260—94.9.

Kehrer, Charles M., C. Sigardson, Jr., and R. M. Poe, to Edgar K. Orr. Louver-type window blind. 3,134,428, 5–26–64, Cl. 160—172.

Kehrer, Fritz: *See*—
Bohler, Hans, and Kehrer. 3,124,581.

Keichel, Harold A., to The Warner & Swasey Co. Taper attachments for lathes. 3,120,141, 2–4–64, Cl. 82—17.

Keidel, Ralph A., and G. Metropulos, to A. O. Smith Corp. Deep groove arch welding apparatus. 3,123,702, 3–3–64, Cl. 219—74.

Keighley, Lloyd M., to General Motors Corp. Ice tray harvesting apparatus. 3,159,985, 12–8–64, Cl. 62—344.

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Keil, Leonard W., to Holley Carburetor Co. Variable volume constant pressure pump. 3,118,381, 1–21–64, Cl. 103—38.

Keil, Leonard W., to Holley Carburetor Co. Fluid supply system. 3,157,221, 11–17–64, Cl. 158—36.4.

Keilbach, Joseph R.: *See*—
Blackman, Arthur W., and Keilbach. 3,158,997.

Keilen, John J., Jr.: *See*—
Hallett, Galen M., Jr., and Keilen. 3,135,820.

Keim, Cameron D., to Gerber Baby Foods. Multiple pocket container. 3,146,929, 9–1–64, Cl. 229—2.5.

Keim, Cameron D., Jr., to Gerber Products Co. Case for containers severable to form trays. 3,159,328, 12–1–64, Cl. 229—51.

Keinath Instrument Co.: *See*—
Van Horne, William E., Barnett, and Goddard. 3,149,-900.

Keiper, Fritz: *See*—
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Keiper, Phillip C., W. M. Ostrander, and A. O. Lund, to Westinghouse Electric Corp. Elevator control system. 3,138,223, 6–23–64, Cl. 187—29.

Keir, John A. Air conditioned steering wheel. 3,149,501, 9–22–64, Cl. 74—552.

Keisling, Loyd H.: *See*—
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Keith, Carl D.: *See*—
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Keith, Carl D., and D. L. Bair, to Engelhard Industries, Inc. Process for producing palladium on carbon catalysts. 3,138,560, 6–23–64, Cl. 252—447.

Keith, Frederick W., Jr., to Pennsalt Chemicals Corp. Centrifuge especially useful in concentrating fruit and/or vegetable solids. 3,146,198, 8–25–64, Cl. 233—29.

Keith, Garland B., to Pid Corp. Combined sheet support roll and sheet gripper assembly. 3,163,558, 12–29–64, Cl. 118—503.

Keith, George H., to Westinghouse Electric Corp. Tungsten alloy. 3,136,039, 6–9–64, Cl. 29—182.8.

Keith, Herbert A. Collapsible ladder. 3,129,785, 4–21–64, Cl. 182—24.

Keith, Larry F. Protective mask assembly. 3,132,345, 5–12–64, Cl. 2—9.

Keith, Norval A., to Olin Mathieson Chemical Corp. Method of embossing sheet metal. 3,154,038, 10–27–64, Cl. 113—44.

Keith, Percival, to Hydrocarbon Research, Inc. Iron oxide reduction with hydrogen. 3,140,940, 7–14–64, Cl. 75—26.

Keith, Sumner. Window guard. 3,116,519, 1–7–64, Cl. 20—40.

Keith, Percival C., to Hydrocarbon Research, Inc. Transportation of liquefied natural gas. 3,159,004, 12–1–64, Cl. 62—45.

Keith, Percival C., A. D. Korin, and G. B. Farkas, to Hydrocarbon Research, Inc. Mobile gas liquefaction platform. 3,161,492, 12–15–64, Cl. 62—40.

Keith, Willis C., to Sinclair Refining Co. Preparation of aromatic polycarboxylated compounds. 3,157,691, 11–17–64, Cl. 260—475.

Keith, Willis C., and R. R. Chambers, to Sinclair Research, Inc. Preparation of sulfobenzene carboxylic acid. 3,151,-153, 9–29–64, Cl. 260—507.

Keithahn, Julian D.: *See*—
Clark, Earnest H., Jr., and Keithahn. Re. 25,639.

Keithley, Ethel B.: *See*—
Bergstrom, Carl T. 3,126,978.

Keizer, Eugene O., to Radio Corp. of America. Variable-capacitance diode balanced modulator. 3,119,079, 1–21–64, Cl. 332—47.

Kekish, George T., to Nalco Chemical Co. Weakly basic anion exchange resins. 3,137,659, 6–16–64, Cl. 260—2.1.

Kel, Inc.: *See*—
Bronson, Eldon L., and Eames. 3,122,194.

Kelar, Joseph, R. L. Dennison, and N. E. Daggett, to Magnetic Controls Co. Self-checking pulse transmission technique. 3,121,215, 2–11–64, Cl. 340—146.1.

Kelbel, Donald W., to Borg-Warner Corp. Transmission mechanism. 3,131,582, 5–5–64, Cl. 74—788.

Kelber, Charles N., to United States of America, Atomic Energy Commission. Nuclear reactor with improved beam tube. 3,140,236, 7–7–64, Cl. 176—18.

Kelch, Heinz, and E. Schuh, to Kienzle Apparate G.m.b.H. Clockwork drive for taximeters. 3,163,357, 12–29–64, Cl. 235—30.

Kelchner, Harley E.: *See*—
Farley, Arthur C., Kelchner, Lee, and Alcott. 3,129,657.

Kelchner, Harley E., to Burroughs Corp. Mechanical movement. 3,147,633, 9–8–64, Cl. 74—142.

Kelday, Roy M., and F. L. Hayden, to The Steel Co. of Canada Ltd. Wire and method of its production. 3,158,258, 11–24–64, Cl. 205—15.

Kelecom, André, to UCB (Union Chimique-Chemische Bedrijven) S.A. Method and apparatus for the continuous dissolution of chemical compounds. 3,160,397, 12–8–64, Cl. 259—97.

Kelecom, André E. E., to UCB (Union Chimique-Chemische Bedrijven) S.A. Hollow textile spindle. 3,158,980, 11–24–64, Cl. 57—18.

Keleher, Timothy B. Seat belt control for ignition system. 3,147,819, 9–8–64, Cl. 180—82.

Kelemen, Denis G., to E. I. du Pont de Nemours and Co. Method of melting silicon. 3,156,549, 11–10–64, Cl. 65—32.
Kelemen, Ladislav, to The Goodyear Tire & Rubber Co. Turbo-brake. 3,142,360, 7–28–64, Cl. 188—90.
Kelemen, Ladislav, to The Goodyear Tire & Rubber Co. Turbo-brake and drive means therefor. 3,142,361, 7–28–64, Cl. 188—90.
Kelite Corp.: *See*—
McDonald, Louis. 3,136,663.
Kelk, George, Ltd.: *See*—
Kelk, George F., and Taushman. 3,142,762.
Kelk, George F., and J. Taushman, to George Kelk Ltd. Magnetically actuated switch device. 3,142,762, 7–28–64, Cl. 307—38.
Kell, Nathaniel B., to General Motors Corp. Anti-skid vehicle brake system. 3,124,220, 3–10–64, Cl. 188—181.
Kellard, Charles J. A., to Almco Supersheen Division of Great Britain Ltd. Barrel finishing installation. 3,151,-620, Cl. 134—76.
Kelleher, Cornelius T.: *See*—
Johnson, Arvid S., Jr., and Kelleher. 3,128,502.
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Kellems, Kenneth K., to Acme Appliance Mfg. Co. Vertically adjustable sliding door hanger. 3,159,866, 12–8–64, Cl. 16—105.
Keller, Arthur C., to Bell Telephone Laboratories, Inc. Reed relay transfer circuit. 3,118,090, 1–14–64, Cl. 317—137.
Keller, Arthur H.: *See*—
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Keller, Arthur H., and E. K. Karlsson, to International Harvester Co. Corn picking auxiliary ear detaching apparatus. 3,126,690, 3–31–64, Cl. 56—107.
Keller, Charles R. Plant treating system. 3,120,722, 2–11–64, Cl. 47—1.3.
Keller, Chauncey A. R., and L. E. Statler. Cylindrical cutter device. 3,153,885, 10–27–64, Cl. 51—267.
Keller, Cyril N.: *See*—
Keller, Louis J. and C. N. 3,151,503.
Keller, Fred C., and R. R. Harris, to Owens-Corning Fiberglas Corp. Acoustical surfaces. 3,149,693, 9–22–64, Cl. 181—33.
Keller, George H.: *See*—
Krug, Albert E., and Keller. 3,136,440.
Keller, H. V., Mfg. Co.: *See*—
Kerr, Howard E. 3,148,467.
Keller, Hans: *See*—
Hell Rudolf, Keller, Zeyen, and Hennig. 3,124,036.
Keller, Hans P., and C. Zinsstag, to Lonza, Ltd. Preparation of acetoacetic acid esters from diketene and alcohol in the presence of an acid catalyst. 3,117,156, 1–7–64, Cl. 260—483.
Keller, Heinz, F. Kaysser, W. Rausch, and W. Stenger, to Hooker Chemical Corp. Process for treating metal surfaces. 3,154,438, 10–27–64, Cl. 148—6.15.
Keller, Howard F., Jr.: *See*—
Sandiford, Burton B., and Keller. 3,116,791.
Keller, Howard F., Jr. Treatment of water to prevent scaling or corrosion. 3,130,153, 4–21–64, Cl. 210—58.
Keller, John D.: *See*—
Nichols, Howard H., and Keller. 3,148,445.
Keller, John D., to Hazen Engineering Co. Apparatus for cooling metal recuperator gases. 3,157,228, 11–17–64, Cl. 165—39.
Keller, Joseph D. Air cooled anti-wicking tool for wire soldering operations. 3,144,846, 8–18–64, Cl. 113—98.
Keller, Joseph R., to AMP Inc. Electrical connector. 3,123,-431, 3–3–64, Cl. 339—276.
Keller, Louis J. and C. N. Transmission system. 3,151,503, 10–6–64, Cl. 74—722.
Keller, Martin, to K-F Products, Inc. Attachment for milling machines. 3,162,091, 12–22–64. Cl. 90—17.
Keller, Oscar, N. Steiger, and L. H. Sternbach, to Hoffmann-La Roche Inc. Nitro substituted 3H-1,4-benzodiazepine compounds. 3,121,074, 2–11–64, Cl. 260—239.
Keller, Oscar, N. Steiger, and L. H. Sternbach, to Hoffmann-La Roche Inc. Aminobenzodiazepines. 3,121,075, 2–11–64, Cl. 260—239.
Keller, Oscar, N. Steiger, and L. H. Sternbach, to Hoffmann-La Roche Inc. Benzodiazepinones and processes. 3,121,-076, 2–11–64, Cl. 260—239.3.
Keller, Oscar, N. Steiger, and L. H. Sternbach, to Hoffmann-La Roche Inc. Substituted 1-4-benzodiazepine-2-one compounds. 3,121,077, 2–11–64, Cl. 260—239.3.
Keller, Oscar, N. Steiger, and L. H. Sternbach, to Hoffmann-La Roche Inc. Aminobenzophenones. 3,121,103, 2–11–64, Cl. 260—454.
Keller, Oscar, N. Steiger, and L. H. Sternbach, to Hoffmann-La Roche Inc. 2-(α-haloalkanoylamino)-benzophenones. 3,121,114, 2–11–64, Cl. 260—562.
Keller, Otto, to Rheinmetall G.m.b.H., Firma. Oscillatory mounting, in particular for automatic firearms. 3,130,-641, 4–28–64, Cl. 89—44.
Keller, Richard: *See*—
Ruegg, Hans, Keller, and Klopfer. Re. 25,543.
Keller, Robert G., to United States of America, Army. Flexible package for sterile foods. 3,136,468, 6–9–64, Cl. 229—3.5.
Keller, Robert H., to Owens-Illinois Glass Co. Lubrication of glass molds. 3,141,752, 7–21–64, Cl. 65—25.
Keller, Robert R. Building wall. 3,161,267, 12–15–64, Cl. 189—34.
Keller, Siegfried, and K. Brandt, to Messerschmitt AG. Production of seam-like connections between flat fabric members by means of thermoplastic materials. 3,122,465, 2–25–4, Cl. 156—93.
Keller, Wolfgang, to Siemens-Schuckertwerke Aktiengesellschaft. Method of doping semiconductor material. 3,125,-532, 3–17–64, Cl. 252—62.3.
Keller, Wolfgang, to Siemens-Schuckertwerke Aktiengesellschaft. Method for producing semiconductor crystals. 3,159,459, 12–1–64, Cl. 23—301.
Kellet, Gordon McL., to Babcock & Wilcox, Ltd. Tubulous vapor generating and superheating units. 3,136,301, 6–9–64, Cl. 122—480.
Kelley, Alleine: *See*—
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Kelley, Arnold E., and W. I. Barnet, to Union Oil Company of California. Hydrocracking process with pre-hydrogenation. 3,132,086, 5–5–64. Cl. 208—57.
Kelley, Arnold E., F. C. Wood, and W. I. Barnet, to Union Oil Co. of California. Manufacture of gasoline and jet fuel by hydrocracking. 3,132,087, 5–55–64, Cl. 208—60.
Kelley, Arnold E., R. P. Vaell, and T. V. Inwood, to Union Oil Co. of California. Integral hydrofining-hydrocracking process. 3,159,564, 12–1–64, Cl. 208—59.
Kelley, Benjamin F., to Ben F. Kelly Co., Inc. Slip bowl. 3,156,026, 11–10–64, Cl. 24—263.
Kelley Co., Inc.: *See*—
Kelley, Garrett P., and Dallman. 3,117,332.
Pfleger, Robert H., and Ramer. 3,137,017.
Kelley, Curtis P., to General Motors Corp. Timer knob and shaft for domestic appliances. 3,161,077, 12–15–64, Cl. 74—553.
Kelley, Dale T., to Motorola, Inc. Transistor and housing assembly. 3,142,791, 7–28–64, Cl. 317—234.
Kelley, Dale T., to Motorola, Inc. Method and apparatus for loading a receiver with a plurality of beads. 3,155,272, 11–3–64, Cl. 221—1.
Kelley, Dale T., to Motorola, Inc. Transistor device with self-jigging construction. 3,155,936, 11–3–64, Cl. 338—329.
Kelley, Donald F. Boat trailer. 3,142,494, 7–28–64, Cl. 280—414.
Kelley, Fred W., Jr., G. R. Lezan, and C. E. Rettig, to General Electric Co. Firing circuit for controlled rectifiers. 3,158,799, 11–24–64, Cl. 321—27.
Kelley, Garrett P., and H. J. Dallman, to Kelley Co., Inc. Adjustable dockboard. 3,117,332, 1–14–64, Cl. 14—71.
Kelley, Herschell W.: *See*—
Lopez, John, and Kelley. 3,122,242.
Kelley, Hugh D., to The J. B. Ehrsam & Sons Mfg. Co. Green board inverter and transfer machine. 3,127,974, 4–7–64, Cl. 198—31.
Kelley, John F., to Herrick L. Johnston, Inc. Pump for cryogenic liquids. 3,131,713, 5–5–64, Cl. 137—340.
Kelley, Joseph M., Jr.: *See*—
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Kelley, Kendal R., and R. F. Milheiser. Resurfacing machine for propeller shafts. 3,141,364, 7–21–64, Cl. 82—4.
Kelley, Kork and A. Device for warning of excessive vehicle speed. 3,121,865, 2–18–64, Cl. 340—264.
Kelley, Matthias F., Jr., to Socony Mobil Oil Co., Inc. Corrosion inhibition. 3,133,787, 5–19–64, Cl. 21—2.7.
Kelley, Oliver K., to General Motors Corp. Fluid couplings. 3,149,466, 9–22–64, Cl. 60—54.
Kelley, Oliver K., to General Motors Corp. Vehicle suspension mechanism. 3,157,394, 11–17–64, Cl. 267—15.
Kelley, Thomas F. Latch for container. 3,151,899, 10–6–64, Cl. 292—17.
Kellgren, Waldo: *See*—
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Kellis, James T., and R. W. Pargee, to Electronic Engineering Co. of California. Digital receiver tuning system. 3,163,823, 12–29–64, Cl. 325—421.
Kellis, Louis T. Massage device with soap dispenser. 3,130,-442, 4–28–64, Cl. 15—509.
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Kellner, Jackson M., to Jersey Production Research Co. Drill bit with extensible blade. 3,145,788, 8–25–64. Cl. 175—379.
Kellner, Jackson M., and J. E. Reed, to Jersey Production Research Co. Drill string stabilizer. 3,126,971, 3–31–64, Cl. 175—230.
Kellogg Co.: *See*—
Allen, Winston F., and Thompson. 3,157,513.
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Kellogg, John F., to Vitro Corp. of America. Collision warning system. 3,149,325, 9–15–64, Cl. 343—5.
Kellogg, M. W., Co., The: *See*—
Dowling, Edward D. 3,136,330.
Johnson, Axel R., and Slyngstad. 3,121,759.
Martin, Douglas H., and Nix. 3,142,544.
Schwarzenbek, Eugene F., and Slyngstad. 3,142,542.
Slyngstad, Charles E., and Nagy. 3,142,543.
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Kellough, Samuel H., and L. P. Polries, to Studebaker Corp. Microwave heating apparatus. 3,127,494, 3–31–64, Cl. 219—10.55.

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Kelly, Albert G. Method and apparatus for recovering and salvaging crashed aircraft. 3,160,288, 12–8–64, Cl. 214—1.
Kelly, Alec J., to J. C. Bamford (Excavators) Ltd. Excavators. 3,130,843, 4–28–64, Cl. 214—145.
Kelly, Alec J., to J. C. Bamford (Excavators) Ltd. Excavators. 3,156,488, 11–10–64, Cl. 280—456.
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Kelly, Clyde W., J. J. Tichy, and A. L. Doering, to Fenestra, Inc. Building structure. 3,160,243, 12–8–64, Cl. 189—34.
Kelly, Earl M., to Eimco Corp. Clarification apparatus. 3,140,259, 7–7–64, Cl. 210—195.
Kelly, Eldon G. Telescoping tie racks. 3,116,837, 1–7–64, Cl. 211—94.
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Kelly, Fred L.: *See*—
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Kelly, Fred L., and C. H. Cuthbert, to Allied Chemical Corp. Production of ammonium formate. 3,122,584, 2–25–64, Cl. 260—542.
Kelly, George B., Jr., to Union Carbide Corp. Ethylene oxide polymers having improved stress endurance. 3,154,514, 10–27–64, Cl. 260—33.2.
Kelly, Hubert K. Method of making cut nails from flat strip stock. 3,130,425, 4–28–64, Cl. 10—34.
Kelly, Jack J., and R. H. Reilly, to Hoke Inc. Gauge valve. 3,134,401, 5–26–64, Cl. 137—557.
Kelly, James M., to Westinghouse Electric Corp. Contactor assembly. 3,152,931, 10–13–64, Cl. 148—11.5.
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Schafer, Gerald V. 3,132,589.
Kelly, John J., Jr., to Lakeside Central Co. Magnetic loose leaf device. 3,116,737, 1–7–64, Cl. 129—11.
Kelly, John L., Jr.: *See*—
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Kelly, John M., Jr. Hydroplane surfboard. 3,160,897, 12–15–64, Cl. 9—310.
Kelly, Lawrence H., and A. C. La Martina, Jr., to American District Telegraph Co. Alarm system. 3,134,970, 5–26–64, Cl. 340—261.
Kelly, Lawrence R., Jr., to United States of America, Army. Electronic beat frequency target simulator. 3,130,405, 4–21–64, Cl. 343—17.7.
Kelly, Leonard: *See*—
Hutter, James F., and Kelly. 3,146,680.
Hutter, James F., and Kelly. 3,149,541.
Kelly, Martin J.: *See*—
Cutaia, Alfred, Demer, and Kelly. 3,146,455.
Kelly, Mildred M.: *See*—
White, John W. 3,118,958.
Kelly, Norman A., to Crystal Preforming and Packaging, Inc. Container construction. 3,118,586, 1–21–64, Cl. 229—17.
Kelly, Norman A., to Crystal Preforming and Packaging, Inc. Container closure construction. 3,162,349, 12–22–64, Cl. 229—17.
Kelly, Thomas A.: *See*—
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Kelly, Thomas E., to Louis E. Stilz, Co. Souvenir graduation cap with removable crown. 3,134,107, 5–26–64, Cl. 2—200.
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Kelly, Thomas N., to Aircraft Precision Products, Inc. Synchronization indicator. 3,146,435, 8–25–64, Cl. 340—268.
Kelly, William A., to Lever Bros. Co. Soap compositions. 3,150,097, 9–22–64, Cl. 252—121.
Kelly, William A., to Lever Bros. Co. Soap-making process and product. 3,155,624, 11–3–64, Cl. 252—122.
Kelm, Everett F., to Corning Glass Works. Connecting electrical units. 3,141,957, 7–21–64, Cl. 219—351.
Kelmers, Andrew D., to Union Carbide Corp. Preparation of ammonium metavanadate. Re. 25,588, 6–2–64, Cl. 23—51.
Kelner, Richard W., I. H. Staman, and W. E. Hamilton, Jr. Food preparing utensil. 3,131,651, 5–5–64, Cl. 107—1.
Kelp, Fritz K., to C. Aug. Schmidt Söhne G.m.b.H. High pressure pre-heater for feed water. 3,156,296, 11–10–64, Cl. 165—74.
Kelsall, Denis F., and J. A. Holmes. Hydro-cyclones 3,130,157, 4–21–64, Cl. 210—512.
Kelsey-Hayes Co.: *See*—
Ayers, David T., Jr. 3,120,155.
Ayers, David T., Jr. 3,120,156.
Ayers, David T., Jr. 3,126,794.
Ayers, David T., Jr. 3,128,676.
Ayers, David T., Jr. 3,143,930.
Ayers, David T., Jr. 3,146,679.
Ayers, David T., Jr. 3,151,532.
Ayers, David T., Jr. 3,152,518.
Ayers, David T., Jr. 3,155,012.
Ayers, David T., Jr. 3,159,975.
Birge, William T. 3,126,984.
Birge, William T. 3,134,463.
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Eksergian, Carolus L. 3,150,745.
Hibbard, Thomas L. 3,154,348.
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Kavalar, Alfred. 3,125,910.
Le Jeune, Frank H. 3,118,484.
Le Jeune, Frank H. 3,118,485.
Robinette, Richard T., and Swift. 3,118,521.
Rowland, James W. 3,121,039.
Rozmus, Walter J. 3,125,908.
Sharpe, Frederick P. 3,127,981.
Stelzer, William. 3,117,421.
Stelzer, William. 3,128,846.
Stelzer, William. 3,140,587.
Stelzer, William. 3,143,125.
Stelzer, William. 3,143,860.
Stelzer, William. 3,143,926.
Stelzer, William. 3,147,042.
Stelzer, William. 3,147,045.
Stelzer, William. 3,147,046.
Stelzer, William. 3,151,914.
Stelzer, William. 3,159,434.
Stelzer, William. 3,163,473.
Stelzer, William, and Hill. 3,159,729.
Swift, Harvey C. 3,118,518.
Swift, Harvey C. 3,118,519.
Swift, Harvey C. 3,126,074.
Swift, Harvey C. 3,128,847–9.
Swift, Harvey C. 3,131,787.
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Swift, Harvey C. 3,152,664.
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Kelsey, Roy A. Wire fence stretching clamp. 3,146,993, 9–1–64, Cl. 254—83.
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Baer, Charles E., and Kelsey. 3,142,639.
Kelsey, William E., and W. H. Heller, to Curtiss-Wright Corp. Ratio control system for toroidal transmission. 3,142,190, 7–28–64, Cl. 74—200.
Kelso, Robert G., R. D. Eppley, and G. H. Potter, to Union Carbide Corp. Stain resistant vinyl chloride polymer compositions containing (tetrahydropyran-2-methyl) phthalate or mixed tetrahydropyran-2-methyl alkoxyalkyl phthalate plasticizer. 3,158,585, 11–24–64, Cl. 260—30.4.
Kelstrom, Donald G., and R. C. Andersen, deceased (by J. K. Peterson, administratrix), to Flexonics Corp. Laminated tubing. 3,135,296, 6–2–64, Cl. 138—122.
Kelton, Frank A. Battery terminal clamp. 3,126,245, 3–24–64, Cl. 339—226.
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Kemenczky, Miklos. 3,157,992.
Kemenczky, Miklos, to Kemenczky Establishment. Flow regulating device for jet propulsion engine. 3,157,991, 11–24–64, Cl. 60—35.6.
Kemenczky, Miklos, to Kemenczky Establishment. Flow controlling device. 3,157,992, 11–24–64, Cl. 60—35.6.
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Joseph, Raymond S., and Kemeny. 3,149,607.
Kemeny, Julius, J. M. Parsons, C. E. Cady, and M. E. Jones, to General Electric Co. Tuner actuator mechanism. 3,155,893, 11–3–64, Cl. 318—467.
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Kemmer, John P., to Litton Industries, Inc. Means and techniques for measuring pressures. 3,161,060, 12–15–64, Cl. 73—398.
Kemmer, John P., and R. E. Scott, to Litton Systems, Inc. Error correction circuit for discontinuous functions. 3,132,244, 5–5–64, Cl. 235—151.
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Kemmler, Sigmund, to Wurttembergische Spindelfabrik G.m.b.H. Spindle driving mechanism. 3,152,434, 10–13–64, Cl. 57—105.
Kemp, Alton L., to The Cleveland Trust Co. (Trustee). Apparatus including a reciprocable pin sensing member for use in detecting pinfall in a bowling game. 3,158,371, 11–24–64, Cl. 273—54.

Kemp, Charles R.: *See*—
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Kemp, Edward F., and E. G. Nichols. Show cases. 3,156,-417, 11–10–64, Cl. 240—10.1.
Kemp, John H., Jr., and W. Funk; said Funk assor. to said Kemp. Pallet. 3,118,400, 1–21–64, Cl. 108—58.
Kemp, John H., Jr., and W. Funk. Pallet. 3,149,586, 9–22–64, Cl. 108—58.
Kemp, John H., Jr. Apparatus for transferring loads. 3,151,754, 10–6–64, Cl. 214—310.
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Kempe, Walter F., to Christensen Diamond Products Co. Apparatus for resharpening drill bits. 3,147,572, 9–8–64, Cl. 51—15.
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Kemper, Arthur L., to Collins Radio Co. Frequency modulation detector having a linear slope output. 3,163,826, 12–29–64, Cl. 329—103.
Kemper, Arthur L., and A. G. Vance, to Collins Radio Co. Alternate function VOR–LOC aircraft meter circuit. 3,131,392, 4–28–64, Cl. 343—107.
Kemper, Maxwell F. Apparatus for lining tunnels with concrete. 3,122,890, 3–3–64, Cl. 61—42.
Kemper, Maxwell F. Method of and apparatus for driving a tunnel through and supporting earth structure. 3,138,933, 6–30–64, Cl. 61—85.
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Kempf, Dennis D., G. D. Rohweder, and C. L. Shoemaker, to Caterpillar Tractor Co. Remote controls. 3,138,966, 6–30–64, Cl. 74—365.
Kempinski, Walter J. Overhead self-storing garage screen door. 3,126,944, 3–31–64, Cl. 160—90.
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Kempter, Charles P., and J. C. McGuire, to United States of America, Atomic Energy Commission. Preparation of scandium hydrides. 3,152,868, 10–13–64, Cl. 23—204.
Kempthorne, James L. Apparatus for conveying and spraying light weight fibers. 3,120,980, 2–11–64, Cl. 302—50.
Kempthorne, James L. Apparatus for blowing and spraying light weight fibers and granulated materials. 3,135,561, 6–2–64, Cl. 302—49.
Kempton, Howard O., to Hershey Mfg. Co. Flaked ice dispenser. 3,136,454, 6–9–64, Cl. 222—227.
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Kendall, Bruce R. F., to National Research Council. Apparatus and method for improving the resolving power of analytical instruments. 3,154,747, 10–27–64, Cl. 328—165.
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Samour, Carlos M. 3,162,610.
Seltzer, Norman L. 3,145,132.
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Kendall, Giles A., and R. C. Lauterwasser, to Menasco Mfg. Co. Fluid motor. 3,124,043, 3–10–64, Cl. 91—178.
Kendall, Hugh C., and J. H. Auer, Jr., to General Signal Corp. Car speed measuring device for railroads. 3,125,315, 3–17–64, Cl. 246—182.
Kendall, Jackson W., Jr., to Eitel-McCullough, Inc. Electron tube with a cathode heat dam. 3,132,274, 5–5–64, Cl. 313—47.
Kendall, James M., to United States of America, Navy. Low noise, low level, precision potentiometer. 3,140,459, 7–7–64, Cl. 338—154.
Kendall, Ovid M. Container. 3,157,343, 11–17–64, Cl. 229—22.
Kendall, Roy N., 50% to E. M. Kendall. Moisture and heat sensitive electronic switching circuit. 3,119,953, 1–28–64, Cl. 317—149.
Kendall, William B., and P. H. Stewart, to Eastman Kodak Co. Cyanine dye-sensitized photoconductive compositions comprising zinc oxide. 3,128,179, 4–7–64, Cl. 96—1.
Kendall, William D., and K. C. Somhegyi, to R. L. Boeger. Vehicle steering linkage. 3,123,376, 3–3–64, Cl. 280—92.
Kendall, William D., and F. A. Yarger, to Dynapower System Corp. Therapeutic pulse generation and control circuit. 3,127,895, 4–7–64, Cl. 128—422.
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Kendrick, Thomas R., III, D. K. Eads, and J. W. Wagner, to Callery Chemical Co. Preparation of boron containing fuels. 3.135,802, 6–2–64, Cl. 260—606.5.
Kendrick, Webster M., to United States of America, Army. Capacitive pressure gage. 3,122,919, 3–3–64, Cl. 73—167.
Kendt, Norman L., to General Electric Co. Dishwasher with improved treating agent dispenser mechanism. 3,125,249, 3–17–64, Cl. 222—70.
Kendt, Norman L., and G. T. Sholtes, to General Electric Co. Anti-tip device. 3,150,904, 9–29–64, Cl. 312—276.
Kendziorski, Casimir, Jr., and R. E. Hora, to General Electric Co. Lightweight rigid radiographic film cassette. 3,157,787, 11–17–64, Cl. 250—68.
Kenin, Russell S., and R. Woody, to The Dow Chemical Co. Method of removing a disc-like closure from a core. 3,125,-802, 3–24–64, Cl. 29—427.
Kenk, Erhard. Rocker arm joint for looms. 3,160,179, 12–8–64, Cl. 139—151.
Kenley, Brents E. Means for perforating and fracturing earth formations. 3,118,501, 1–21–64, Cl. 166—55.4.
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Kennard, James E. Device for mounting wallboard tape. 3,131,108, 4–28–64, Cl. 156—461.
Kenneally, William J., to Martin-Marietta Corp. Permanent recording electron responsive chemical display panel controlled by an electroluminescent matrix. 3,125,741, 3–17–64, Cl. 340—24.
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Anderson, Leonard R. 3,155,201.
Back, Alexander E., Fisher, and Kocherhans. 3,154,411.
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Kirker, Robert L. 3,128,835.
Koski, Eino A., and Wilmeth. 3,161,282.
Michaelson, Stanley D. 3,138,240.
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Kennedy, David F. Sound reproducing apparatus. Re. 25,652, 10–6–64, Cl. 179—1.
Kennedy, Don E., to Standard Oil Co. Ammonium nitrate propellant with low flame temperature exhaust gases. 3,138,497, 6–23–64, Cl. 149—19.
Kennedy, Douglas J., and N. B. Shine, to Shawinigan Chemicals Ltd. Apparatus and process for production of hydrogen cyanide. 3,157,468, 11–17–64, Cl. 23—151.
Kennedy, Edward L., and G. G. Raich, to Southern California Plastic Co. Process for forming an insulated container. 3,120,570, 2–4–64, Cl. 264—45.
Kennedy, Edwin C., to General Electric Co. Split refrigeration system including charge measuring means. 3,163,016, 12–29–64, Cl. 62—129.
Kennedy, Edwin K., and W. F. Schofield, to Pratt & Whitney Co., Inc. Multiple adjustable tool holder. 3,162,074, 12–22–64, Cl. 82—24.
Kennedy, Flynt, and B. D. Ratliff, to Continental Oil Co. Olefin isomerization. 3,151,179, 9–29–64, Cl. 260—683.2.

Kennedy, Frank, to United States Steel Corp. Blast furnace probe. 3,130,584, 4–28–64, Cl. 73—341.
Kennedy, Frank, to United States Steel Corp. Open hearth charging box. 3,157,298, 11–17–64, Cl. 214—26.
Kennedy, Gilbert J., to Philco Corp. Tuning mechanism. 3,152,487, 10–13–64, Cl. 74—10.41.
Kennedy, Harry M., to The Superior Equipment Co. Speed reduction gear box. 3,130,605, 4–28–64, Cl. 74—745.
Kennedy, Harry R., C. J. Andersen, and C. V. Jones, Sr., to Southern Machinery Co. Automatic control system for spinning frames. 3,124,925, 3–17–64, Cl. 57—54.
Kennedy, Harry R., J. W. Knox, Jr., and W. Engels, to H & S Co., Inc. Loom anti-vibration mounting means. 3,160,376, 12–8–64, Cl. 248—22.
Kennedy, Logan L., to Esso Research and Engineering Co. Leakproof telescopic loading arm. 3,143,146, 8–4–64, Cl. 138—107.
Kennedy, Mildred M.: *See*—
Andrea, Andrew G. 3,130,554.
Kennedy, Richard T., to Ekco Products Co. Flame shield for handle. 3,143,759, 8–11–64, Cl. 16—116.
Kennedy, Ted, Jr., to The Trenton Corp. Pipe wrapping. 3,126,034, 3–24–64, Cl. 138—144.
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Kennedy, Thomas W. Circular slide rule. 3,120,923, 2–11–64, Cl. 235—84.
Kennedy, Wallace M.: *See*—
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Kennedy, Walter L., Sr. Fuel injection device. 3,132,191, 5–5–64, Cl. 261—41.
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Kennedy, Walter W., to Barber-Colman Co. Air distribution outlet. 3,126,811, 3–31–64, Cl. 98—40.
Kennedy, Walter W., to Barber-Colman Co. Air flow control damper. 3,147,768, 9–8–64, Cl. 137—614.11.
Kennedy, Walter W., to Barber-Colman Co. Grillwork. 3,151,714, 10–6–64, Cl. 189—63.
Kennedy, William D.: *See*—
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Kennedy, William L.: *See*—
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Kennedy, William L., to Union Carbide Corp. Open head container and cover therefor. 3,121,438, 2–18–64, Cl. 134—135.
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Kuhn, James O. 3,132,443.
Kuhn, James O. 3,154,995.
Kennett, John E. Mechanical handling and gripping apparatus. 3,161,308, 12–15–64, Cl. 214—147.
Kenney, Christopher N., and R. S. Thornhill, to Imperial Chemical Industries Ltd. Method for producing non-metallic magnetic materials. 3,129,184, 4–14–64, Cl. 252—62.5.
Kenney, Joseph F., to Remington Arms Co., Inc. Explosive priming composition. 3,131,102, 4–28–64, Cl. 149—78.
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Kenney, Philip L. 3,155,148.
Schoos, Maurice A. 3,116,543.
Kenney, Peter J. Matrix reconditioning vise. 3,151,861, 10–6–64, Cl. 269—252.
Kenney, Philip L., to Kenney Mfg. Co. Pulley case and curtain rod combination. 3,155,148, 11–3–64, Cl. 160—344.
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Fackler, John D., and Kenny. 3,124,761.
Kenny, Charles R., to United States of America, Navy. Altitude correction techniques. 3,154,779, 10–27–64, Cl. 343—11.
Kenny, Charles R., and J. D. Fackler, to General Precision, Inc. Tetrode pulse shaping circuit. 3,135,928, 6–2–64, Cl. 331—87.
Kenny, John M. Earring guard chain and means for securement to the hair. 3,163,026, 12–29–64, Cl. 63—14.
Kenny, Thomas H., H. C. Obermiller, and R. P. Herlong, to Diebold, Inc. Digital readout combination lock construction. 3,137,155, 6–16–64, Cl. 70—330.
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Kent, Gerald J.: *See*—
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Kent, Jan H. F., to Kentredder Ltd. Re-treading of tyres. 3,124,496, 3–10–64, Cl. 156—95.
Kent, Jan H. F., to Kentredder Ltd. Tyre re-treading equipment. 3,127,297, 3–31–64, Cl. 156—394.
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Crimmins, David J., and Marcsanyi. 3,157,448.
Crimmins, David J., Marcsanyi, and Basile. 3,159,447.
Deverell, Harry T. 3,150,909.
Grant, Richard T. 3,144,288.
Logan, Maurus C. 3,123,664.
Kent, Melvin L., and M. Prewarski, to The New York Air Brake Co. Hydraulic starter system for engines. 3,116,595, 1–7–64, Cl. 60—18.
Kent, Nelson H., to Rolls-Royce Ltd. Heat exchange apparatus e.g. for use in gas turbine engines. 3,116,789, 1–7–64, Cl. 165—147.
Kent, Nelson H., E. R. Brealey, and J. Ingram, to Rolls-Royce Ltd. Compressors of gas turbine engines. 3,154,241, 10–27–64, Cl. 230—114.
Kent, Owen, to Reliance Camera & Photo Supplies Inc. Universal work and desk lamp. 3,160,349, 12–8–64, Cl. 240—52.
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Kent, Samuel J. Nail-driving and clinching tool. 3,144,655, 8–18–64, Cl. 1—95.
Kent, Stanley J., to United States of America, Army. Gas pressure operated thruster. 3,149,457, 9–22–64, Cl. 60—26.1.
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Crane, Samuel P., and Kent. 3,133,852.
Kent, Thomas B., to Imperial Chemical Industries Ltd. Sample injection for analysis. 3,162,035, 12–22–64, Cl. 73—23.1.
Kent, William C., to Western Electric Co., Inc. Apparatus for forming eye bolts. 3,126,036, 3–24–64, Cl. 140—104.
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Kentfield, John A. C., to Power Jets (Research & Development) Ltd. Pressure exchangers. 3,158,007, 11–24–64, Cl. 62—401.
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Kent, Jan H. F. 3,127,297.
Kentucky Fried Chicken Corp.: *See*—
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Kenworthy, Clarence S. Fuel injection valve. 3,136,305, 6–9–64, Cl. 123—65.
Kenyon, David E., to Sperry Rand Corp. Distance measuring circuit. 3,117,317, 1–7–64, Cl. 343—13.
Kenyon, David E. Electromagnetic marine speedometer mounted substantially flush with an outer surface of a ship. 3,119,960, 1–28–64, Cl. 324—70.
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Kenyon, Richard L., to North American Aviation, Inc. Fluid pressure regulator. 3,132,659, 5–12–64, Cl. 137—39.
Kenyon, Robert S., and W. F. Taylor, to Courtaulds, Ltd. Textile process and product. 3,124,860, 3–17–64, Cl. 28—76.
Kenyon, Robert S., and W. F. Taylor, to Courtaulds, Ltd. Process for treating polynosic fibers and products obtained thereby. 3,128,147, 4–7–64, Cl. 8—116.
Kenyon, Theodore W., to Connecticut Valley Enterprises, Inc. Plural electromagnetic relay contact structure. 3,127,487, 3–31–64, Cl. 200—98.
Kenyon, Wilfred: *See*—
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Kenyon, Wilfred, to Lockheed Aircraft Corp. Variable attitude ejection seat with quick return device. 3,123,326, 3–3–64, Cl. 244—122.
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Grayson, Martin, and Keough. 3,145,227.
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Keough, William R., 45% to Multifastener Co. Burner construction. 3,137,486, 6–16–64, Cl. 263—42.
Kepka, Alfred and S. Process of and an apparatus for manufacturing hollow articles from reinforced synthetic resins. 3,135,640, 6–2–64, Cl. 156—147.
Kepka, Frank, and W. T. Heyer. Valve. 3,135,287, 6–2–64, Cl. 137—414.
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Kepka, Alfred and S. 3,135,640.
Kepkay, Leslie L.: *See*—
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Kepler, Charles E., and R. E. Olson, to United Aircraft Corp. Bistable fluid valve. 3,135,291, 6–2–64, Cl. 137—608.
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Cocking, Edward C. D., Keppie, Packman, and Smith. 3,137,629.
Keppler, Ernest H., and G. R. Winkler. Wall panel. 3,146,499, 9–1–64, Cl. 20—15.
Keppler, John E., to Tampo Mfg. Co. Self-propelled vibratory compactor. 3,153,993, 10–27–64, Cl. 94—50.
Kerby, Floyd G., to The Budd Co. Die-formed sheet metal structures and method of making the same. 3,159,419, 12–1–64, Cl. 296—28.

Kerby, John L.: *See*—
Griffiths, Kenneth F. 3,117,031.
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Kerdock, Anthony M., to Sperry Rand Corp. Pulse storage system. 3,154,783, 10–27–64, Cl. 343—17.1.
Kerfoot, Oliver C., and I. R. Supernaw, to Continental Oil Co. White oil stabilizer. 3,127,350, 3–31–64, Cl. 252—35.
Kerger, Francis M. Washer dispenser having hopper with air agitation of washers. 3,132,766, 5–12–64, Cl. 221—175.
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Kern, Donald Q., and C. O. Hersam. Heat exchanger apparatus. 3,131,758, 5–5–64, Cl. 165—155.
Kern, Donald R., to Hammond Organ Co. Legato percussion circuit. 3,161,714, 12–15–64, Cl. 84—1.26.
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Kern, Fritz, A. Jacob, and P. C. Hooper, to Ciba Ltd. Process for the manufacture of niobium pentoxide or tantalum pentoxide. 3,133,788, 5–19–64, Cl. 23—21.
Kern, James P., to General Motors Corp. Fluid tank pressurizing system. 3,127,743, 4–7–64, Cl. 60—39.48.
Kern, Joseph F., Jr., to Puregas Equipment Corp. Apparatus and method for dehumidifying gases. 3,148,040, 9–8–64, Cl. 55—31.
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McGuire, William J., Jr., Kern, Wyant, and Perkins. 3,127,937.
Kern, Martin W. Educational device. 3,124,883, 3–17–64, Cl. 35—9.
Kern, Rudolf, to Rhein-Chemie G.m.b.H. Process for treating organ tissue and product obtained thereby. 3,127,317, 3–31–64, Cl. 167—74.
Kern, Rudolf, and R. Punessen, to Rhein-Chemie, G.m.b.H. Compositions comprising a vinyl halide polymer and the reaction product of castor oil with a halide of a sulfur group element. 3,129,193, 4–14–64, Cl. 260—23.
Kern, Walter, W. Mueller, and A. E. Siegrist, to Ciba Ltd. Organic dyestuffs. 3,157,667, 11–17–64, Cl. 260—303.
Kern, Werner, and V. Jaacks, to Deutsche Gold-und Silber-Scheideanstalt vormals Roessler. Production of polyoxymethylenes. 3,122,525, 2–25–64, Cl. 260—67.
Kern, Werner, R. Schulz, and I. Löfund, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process for the production of polyvalent macromolecular acids. 3,127,374, 3–31–64, Cl. 260—67.
Kernander, Warren N., C. F. Van Bennekom, and C. W. Camp, to General Electric Co. Time meter assembly. 3,123,293, 3–3–64, Cl. 235—103.
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Kerns, Homer. Artificial blood pump means. 3,127,846, 4–7–64, Cl. 103—152.
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Clayborne, Norman F., Hamlin, and Kerns. 3,141,419.
Kerns, Quentin A., to United States of America, Atomic Energy Commission. Tunnel diode discriminator circuit. 3,136,902, 6–9–64, Cl. 307—88.5.
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Kerr, Edwin R., E. R. Christensen, W. F. Franz, and H. E. Vermillion, to Texaco Inc. Preparation of a jet fuel. 3,125,503. 3–17–64, Cl. 208—79.
Kerr, Edwin R., and J. K. Truitt, to Texaco Inc. Complex forming dewaxing composition and process. 3,132,084, 5–5–64, Cl. 208—25.
Kerr, Fred S.: *See*—
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Kerr, Henry K. Hammer with detachable striking head faces. 3,130,762, 4–28–64, Cl. 145—29.
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Kerr, Hugh C.: *See*—
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Kerr, Kenneth C. Dental chair component. 3,156,500, 11–10–64, Cl. 297—391.
Kerr, Kenneth C. Head rest. 3,159,426, 12–1–64, Cl. 297—408.
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Goren, Mayer B. 3,154,390.
Hazen, Wayne C., and Henrickson. 3,151,933.
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Kerr, Paul J. Article pickup device. 3,122,389, 2–25–64, Cl. 294—19.
Kerr, Ralph L. Valve pot cover. 3,123,247, 3–3–64, Cl. 220—46.
Kerr, Ralph O., to Petro-Tex Chemical Corp. Production of dicarboxylic acid anhydrides by the catalytic oxidation of olefins. 3,156,705, 11–10–64, Cl. 260—346.8.
Kerr, Ralph O., to Petro-Tex Chemical Corp. Production of dicarboxylic acid anhydrides by the catalytic oxidation of aliphatic hydrocarbons. 3,156,706, 11–10–64, Cl. 260—346.8.
Kerr, Ralph O., to Petro-Tex Chemical Corp. Oxidation of aliphatic hydrocarbons. 3,156,707, 11–10–64, Cl. 260—346.8.
Kerr, Ralph O., W. R. Decker, and C. M. Dorsett, to Pittsburgh Plate Glass Co. Vanadium oxide-molybdenum oxide-cobalt-oxide-alkali metal halide on alumina catalyst composition and the preparation thereof. 3,163,613, 12–29–64, Cl. 252—441.
Kerr, Ralph W., and F. C. Cleveland, Jr., to Corn Products Co. Process of adding starch phosphates to paper pulp containing titanium dioxide to improve retention thereof. 3,132,066, 5–5–64, Cl. 162—175.
Kerr, Richard M.: *See*—
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Galloway, Frederick M., Kerr, Rittenhouse, and Sinnamon. 3,119,415.
Kerr, Robert A., to Northern Electric Co., Ltd. Strand forming device. 3,128,799, 4–14–64, Cl. 140—149.
Kerr, Samuel L. Air and vacuum valve apparatus. 3,134,393, 5–26–64, Cl. 137—202.
Kerr, Wayne E., and R. R. Harter, to Martin-Marietta Corp. Self-tightening attachment arrangement. 3,117,520, 1–14–64, Cl. 102—50.
Kerr, Wayne, Laboratories Ltd., The: *See*—
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Kerrihard, Maxwell L. Wall cabinet apparatus and method. 3,142,523, 7–28–64, Cl. 312—245.
Kerry, Thomas H., to Rolls-Royce Ltd. Housings for jet propulsion gas turbine engines. 3,136,500, 6–9–64, Cl. 244—23.
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Marshall, William E., and Kerschbaum. 3,126,276.
Kerschner, Paul M., and J. Ryer, to Cities Service Research and Development. Thiourea derivatives of thiophosphates. 3,117,150, 1–7–64, Cl. 260—461.
Kerschner, Paul M., and A. I. Meyers, to Cities Service Research and Development Co. Synthetic lubricants. 3,131,151, 4–28–64, Cl. 252—49.8.
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Kersh, Irving and D. A. 3,118,590.
Kersh, Irving and D. A. Cartons. 3,118,590, 1–21–64, Cl. 229—31.
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Steghart, Fritz L. F., and Kershaw. 3,150,826.
Kershner, Osborn A., to Lambert Brake Corp. Disc brake including a pivotally mounted, axially movable member. 3,148,750, 9–15–64, Cl. 188—72.
Kershner, Richard B., to United States of America, Navy. Satellite rotation by radiation pressure. 3,145,948, 8–25–64, Cl. 244—1.
Kersten, Merle E., to Ceco Steel Products Corp. Molded patch for the air opening of molding forms. 3,151,374, 10–6–64, Cl. 25—120.
Kersten, Victor G. J., and M. S. de Winter, to Organon Inc. Oxydation of hydroxy steroids. 3,142,689, 7–28–64, Cl. 260—397.3.
Kersting, Bernard H., to McDowell-Wellman Engineering Co. Boom leveling and compensating means. 3,146,898, 9–1–64, Cl. 214—14.
Kerstetter, Donald R., and S. J. Montgomery, to Sylvania Electric Products Inc. Cathode. 3,119,946, 1–28–64, Cl. 313—337.
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Kertell, Frank W., ½ interest to B. Walker. Flush valve. 3,141,177, 7–21–64, Cl. 4—53.
Kertesz, Carl, to W. Krakauer. Steam driven spit for charcoal grills. 3,129,653, 4–21–64, Cl. 99—421.
Kerti, Jozsef. Electrolysis of sodium sulfate. 3,134,729, 5–26–64, Cl. 204—99.
Kerver, John K., and J. W. Graham, to Jersey Production Research Co. Hydraulic fracturing method. 3,138,205, 6–23–64, Cl. 166—42.
Kerwin, James F.: *See*—
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Georgian, Vlasios, Kerwin, and Wolff. 3,152,120.
Kesh, Seroun. Dust cover for dog. 3,150,641, 9–29–64, Cl. 119—160.
Kesilman, Sol, H. B. Penn, and M. Kravitz. Shelving system. 3,146,734, 9–1–64, Cl. 108—111.
Kesilman, Sol, H. B. Penn, and M. Kravitz. Shelving device. 3,146,735, 9–1–64, Cl. 108—111.
Keska, Kenneth R., to The Yoder Co. Rotary welding transformer. 3,130,290, 4–21–64, Cl. 219—63.
Keska, Kenneth R., to The Yoder Co. Rotating welding transformer. 3,130,291, 4–21–64, Cl. 219—63.
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Crowther, Milton, Beaumont, and Kesler. 3,118,952.
Kesler, Richard B., to The Institute of Paper Chemistry. Coulometric titration. 3,154,477, 10–27–64, Cl. 204—1.
Kesner, Fred O., to Package Masters, Inc. Garment hanger and cover therefor. 3,117,706, 1–14–64, Cl. 223—98.
Kesnickl, Eduard, to A. Handler and K. Vockenhuber. Indicator of exposed length of film for a motion picture camera. 3,150,377, 9–22–64, Cl. 352—172.
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Kesselring, Fritz, to Siemens-Schuckertwerke A.G. High current switch arrangement for quick break. 3,128,361, 4–7–64, Cl. 200—151.
Kesselring, Walter C., to Ross Operating Valve Co. Multiple purpose speed control valve construction. 3,126,795, 3–31–64, Cl. 91—443.
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Kessler, Bernard. Set of interleaved sheets. 3,133,751, 5–19–64, Cl. 282—24.
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Carlson, Gus A. 3,135,560.
Kessler, James R., to North American Aviation, Inc. Aircraft power transmission system. 3,136,499, 6–9–64, Cl. 244—7.
Kessler, Milton. Method for making a pre-formable metal base pile material. 3,158,518, 11–24–64, Cl. 156—72.
Kessler, Seymour, to Zenith Radio Corp. Ratchet relays. 3,151,490, 10–6–64, Cl. 74—142.
Kessler, Solomon J., to Engelhard Industries, Inc. Orthodontic assembly. 3,134,171, 5–26–64, Cl. 32—14.
Kesslin, George, A. C. Flisik, and R. W. Handy, to Kay-Fries Chemicals, Inc. Production of purified orthoformic esters. 3,121,751, 2–18–64, Cl. 260—615.
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Kestenbaum, William W., to Sperry Rand Corp. Color discriminating apparatus. 3,127,517, 3–31–64, Cl. 250—220.
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Kesterman Bros. Mfg. Co.: *See*—
Minutoli, Anthony L. 3,160,938.
Kestner, William N., to Esso Research and Engineering Co. Hydrodealkylation of special feed stocks. 3,145,238, 8–18–64, Cl. 260—672.
Ketay, Morris F., to United Aircraft Corp. Brushless synchro construction. 3,141,101, 7–14–64, Cl. 310—68.
Ketch, Frederick M.: *See*—
Burke, Daniel B., and Ketch. 3,144,338.
Ketcham, Arthur R., to Owens-Illinois Glass Co. Apparatus for conditioning glass parison molds. 3,137,560, 6–16–64, Cl. 65—356.
Ketcham and McDougall, Inc.: *See*—
McFadyen, Richard. 3,153,177.
Ketchledge, Raymond W.: *See*—
Ilgenfritz, Lester M., Ketchledge, and Moore. 3,118,062.
Ketchpel, Richard D., to Hughes Aircraft Co. Three-dimensional display cathode ray tube. 3,140,415, 7–7–64, Cl. 313—146.
Ketel, Lawrence. Remotely controlled landing gear. 3,117,766, 1–14–64, Cl. 254—86.
Keto, August I., to United States of America, Navy. Depth control. 3,118,410, 1–21–64, Cl. 114—25.
Kettenwerke Schlieper G.m.b.H.: *See*—
Gerhardt, Woldemar. 3,153,898.
Ketterer, Stanley J., to The Singer Co. Rotary hook with thread and needle guard. 3,120,204, 2–4–64, Cl. 112—228.
Ketterer, Stanley J., to The Singer Co. Control device for the drive of a lock stitch sewing machine. 3,138,127, 6–23–64, Cl. 112—184.
Ketteridge, David J.: *See*—
Seymour, Donald E., and Ketteridge. 3,137,746.
Ketteringham, Terence A.: *See*—
Holliday, John H., Ketteringham, Newbold, and Booth. 3,119,943.
Kettler, Clarence J., to General Electric Co. Control circuit for voltage regulator. 3,123,763, 3–3–64, Cl. 323—22.
Kettler, Paul E. Roof attachment. 3,127,214, 3–31–64, Cl. 296—102.
Ketzler, Almaron H., to National Broach & Machine Co. Gear finishing machine. 3,118,343, 1–21–64, Cl. 90—1.6.
Keuchen, Erich, and W. Hoven, to Garbe, Lahmeyer & Co. Aktiengesellschaft. Starter system of an internal combustion engine. 3,163,769, 12–29–64, Cl. 290—38.
Keuffel & Esser Co.: *See*—
Fritz, Gerhard. 3,140,180.
Kosar, Jaromir. 3,157,503.
Krieger, Wilhelm A., and May. 3,159,487.
Kuehne, Christoph. 3,116,886.
O'Connor, John J., and Held. 3,159,488.
Sage, Ira M. 3,144,354.
Sage, Ira M., and Kaminstein. 3,136,233.
Schlesinger, Heinz. 3,139,341.
Trusheim, Frank M. 3,157,499.
Kevorkian, Joseph D. Lamp guard construction. 3,149,786, 9–22–64, Cl. 240—102.
Kevorkian, Victor: *See*—
Long, Robert B., Heath, and Kevorkian. 3,160,639.
Keway, Charles F., Sr., to Keway Enterprises, Inc. Saw chain for power driven chain saws. 3,123,110, 3–3–64, Cl. 143—135.
Keway Enterprises, Inc.: *See*—
Keway, Charles F., Sr. 3,123,110.
Key, Carroll L., Jr., D. T. Laird, and J. M. Lawther, to United States of America, Navy. Magnetostrictive transducer. 3,160,848, 12–8–64, Cl. 340—6.
Key, Edward D., to Products, Inc. Pipe and conduit threading machine. 3,163,082, 12–29–64, Cl. 90—11.58.
Key Equipment Co., Inc.: *See*—
Miller, Francis A. 3,143,212.
Key, Howard P. Helicopter rotor blade. 3,161,238, 12–15–64, Cl. 170—159.
Key, John W. Stripper. 3,147,971, 9–8–64, Cl. 271—68.
Key, Jonathan A. H.: *See*—
Clifford, Cecil F., and Key. 3,148,497.
Key, Lou C.: *See*—
Laib, Roger D., and Key. 3,133,791.
Key Resistor Corp.: *See*—
Kuhlman, Ora F. 3,132,321.
Keyes Fibre Co., Inc.: *See*—
Crabtree, Kenneth L., and Burt. 3,142,613.
Crabtree, Kenneth L., and Thomas. 3,122,994.
Poulin, Arthur J. 3,152,700.
Keyes, John C.: *See*—
Kirby, Frank J., and Keyes. 3,137,851.
Keys, Richard V.: *See*—
Mock, Harold J., and Keys. 3,123,422.
Keys, Richard V., ½ to Harold J. Mack. Rotary wire stripper. 3,153,958, 10–27–64, Cl. 81—9.51.
Keyser, Johann J. Spinning or twisting spindle with a dead spindle shank. 3,120,094, 2–4–64, Cl. 57—130.
Keyser, Johann J. Yarn winding device for spinning machines. 3,122,877, 3–3–64, Cl. 57—129.
Keyser, Johann J. Drive for spinning and twisting spindles. 3,131,529, 5–5–64, Cl. 57—105.
Keyser, Johann J. Brake for spinning and twisting spindles. 3.137,118, 6–16–64, Cl. 57—88.
Keyser, Johann J. Textile machine with closed housing. 3,146,572, 9–1–64, Cl. 57—1.
Keystone Camera Co., Inc.: *See*—
Kaminski, Henry J., and Silbovitz. 3,143,031.
Kaminski, Henry J., and Silbovitz. 3,143,045.
Keystone Chemurgic Corp.: *See*—
Schenck, Remsen T., and Buzas. 3,151,123.
Keystone Steel & Wire Co.: *See*—
Bruninga, Willis J. 3,145,001.
Edge, Walter S. 3,158,925.
Keystone Valve Corp.: *See*—
Forsman, Earl R., and McNeely. 3,156,161.
Kezele, John T., ⅛ to J. Sandusky, and ⅛ to J. J. Muznik. Automatic alarm signalling system. 3,140,349, 7–7–64, Cl. 179—5.
Kezerian, Charles, and W. M. Ramsey, to Stauffer Chemical Co. Bis-adduction products and methods of preparing same. 3.158.635, 11–24–64, Cl. 260—429.
Keznickl, Eduard, to A. Handler, and K. Vockenhuber. Indicator of exposed length of film for a motion picture camera. 3,150,377, 9–22–64, Cl. 88—16.
Kfoury, Nicholas F., to Korfund Dynamics Corp. All-directional frictional damper. 3,145,012, 8–18–64, Cl. 248—358.
Khan, Aman U., to Whirlpool Corp. Flexible suspension system for home appliance. 3.137,467, 6–16–64, Cl. 248—18.
Kharasch, Robert N., and R. A. Blanchette, said Blanchette assor. to said Kharasch. Flash card teaching apparatus. 3.122,844, 3–3–64, Cl. 35—9.
Khazzam, Joseph N., to Regent Sports Co., a partnership composed of J. Lipman and I. Lawner. Spinning reel. 3,146,965, 9–1–64, Cl. 242—84.2.
Khelghatian, Habet M.: *See*—
Hague, Louise D., and Khelghatian. 3,129,209.
Jezl, James L., Khelghatian, and Hague. 3,129,208.
Khouri, Alfred S., R. E. Carroll, P. H. Craig, and P. M. Tedder, to United States of America, Army. Proximity fuse. 3,124,073, 3–10–64, Cl. 102—70.2.
Khym, Joseph X., to United States of America, Atomic Energy Commission. Method of separating nucleotides. 3,157,637, 11–17–64, Cl. 260—211.5.
Kianpour, Ahmad: *See*—
Hankey, Ernest H., and Kianpour. 3,145,187.
Kibble, John D., A. E. Bennett, and P. E. Woodhead, to Coal Industry (Patents) Ltd. Self-advancing mine roof supports. 3,120,105, 2–4–64, Cl. 61—45.
Kibby, David R. Surfboard with removable outboard motor. 3,158,882, 12–1–64, Cl. 9—1.
Kibby, Robert M., to Reynolds Metals Co. Electrode. 3,156,639, 11–10–64, Cl. 204—243.
Kibi, Masajiro: *See*—
Uchida, Kazuo, Kuninaka, Yoshino, and Kibi. 3,118,820.
Kibler, Charles J.: *See*—
Bell, Alan, Kibler, and Smith. 3,157,619.
Tholstrup, Clarence E., Bell, and Kibler. 3,157,517.
Kibler, Charles J., N. C. Russin, and A. Bell, to Eastman Kodak Co. Preparation of improved linear copolyesters employing two stages to polymerize solid particles. 3,117,950, 1–14–64, Cl. 260—75.
Kibler, Lynden U., to Bell Telephone Laboratories, Inc. Light modulator. 3,153,691, 10–20–64, Cl. 88—61.

Kibler, Lynden U., to Bell Telephone Laboratories, Inc. Electronic thermometer. 3,158,027, 11–24–64, Cl. 73—362.
Kiceniuk, Taras, to California Institute Research Foundation. Control and propulsion fluid foil. 3,118,639, 1–21–64, Cl. 244—44.
Kichline, Thomas P., and J. E. Schoolmeester, to Monsanto Chemical Co. Animal feed compositions. 3,121,634, 2–18–64, Cl. 99—2.
Kickbush, Fred W.: *See*—
Wesa, Phillip J., Brockman, Johnson, and Kickbush. 3,147,172.
Kickliter, Jesse. Cast net casting device. 3,160,977, 12–15–64, Cl. 43—8.
Kidd, Eddings, 33⅓% to J. L. Gurney. Note pad and holder therefor. 3,146,004, 8–25–64, Cl. 281—3.
Kidd, Marshall C., to Radio Corp. of America. Simplified two-channel multiplex system. Re. 25,699, 12–15–64, Cl. 179—15.
Kidd, Robert C., to Mississippi Valley Structural Steel Co. Automatic structural bar punching machine. 3,134,284, 5–26–64, Cl. 83—413.
Kidd, Thomas D. Conveyor-supporting idler assembly. 3,133,626, 5–19–64, Cl. 198—192.
Kidde, Walter, Co. Ltd., The: *See*—
Reffell, Brian R. A. 3,125,770.
Kidde, Walter, & Co., Inc.: *See*—
Kronheim, John H. 3,146,916.
Kulczycki, Karol. 3,148,519.
Mutter, Robert A., and Shepherd. 3,160,942.
Kidder, Oren A. Talking clock. 3,135,084, 6–2–64, Cl. 58—14.
Kidder Press Co., Inc.: *See*—
Tibbling, Stig B. 3,122,931.
Kiddle, Robert F.: *See*—
Fenn, George S., and Kiddle. 3,144,525.
Timares, Norman R., and Kiddle. 3,161,120.
Kido, Ryonosuke: *See*—
Ochiai, Eiji, and Kido. 3,163,653.
Kidwell, Leslie B.: *See*—
Hogsten, Yngve A. 3,147,691.
Kidwell, Ralph E., and E. R. Dalton, to Abbott Laboratories. Radioactive capsules. 3,159,545, 12–1–64, Cl. 167—83.
Kidwell, Robert L., and D. E. Litherland, to The Garrett Corp. Repetitive high current semiconductor switch. 3,146,356, 8–25–64, Cl. 307—88.5.
Kiefer, Adolph, & Co.: *See*—
Roudebush, Brooks. 3,127,623.
Kiefer, Augustine J. Pillow contouring base. 3,139,631, 7–7–64, Cl. 5—337.
Kiefer, Harry J.: *See*—
Neuhaus, Theodore A., and Kiefer. 3,135,712.
Kiefer, Jacob C., and H. G. Jensen, to The Seeburg Corp. Credit mechanism. 3,156,339, 11–10–64, Cl. 194—1.
Kiefer, Julius E. Smoking products and manufacture of the same. 3,132,651, 5–21–64, Cl. 131—141.
Kieffaber, Clarence: *See*—
Enoch, Durard W., Scott, Huber, and Kieffaber. 3,116,-703.
Kieffaber, Clarence A., to Stickelber & Sons, Inc. Bread molder. 3,121,406, 2–18–64, Cl. 107—9.
Kieffer, George A., to Paper Mate Mfg. Co. Box construction. 3,136,473, 6–9–64, Cl. 229—34.
Kieffer, Richard, and K. Sedlatschek, to Metallwerk Plausee Aktiengesellschaft. Anticathodes for X-ray tubes. 3,136,-907, 6–9–64, Cl. 313—55.
Kiehn, Robert M. Nuclear radiation measuring system utilizing a radio receiver. 3,160,750, 12–8–64, Cl. 250—71.5.
Kiekhaefer Corp.: *See*—
Alexander, Charles F., Jr. 3,136,282.
Kiekhaefer, Elmer C. 3,131,665.
Kiekhaefer, Elmer C. 3,136,285.
Kiekhaefer, Elmer C., Alexander, and Boda. 3,136,286.
Kiekhaefer, Elmer C., Alexander, and North. 3,136,281.
McCormick, Daniel F. 3,136,283.
North, Irving W. 3,136,284.
North, Irving W. 3,136,287.
Strang, Charles D. 3,136,172.
Kiekhaefer, Elmer C., to Kiekhaefer Corp. Bow section member for pontoons. 3,131,665, 5–5–64, Cl. 114—66.5.
Kiekhaefer, Elmer C., to Kiekhaefer Corp. Steering arrangement for outboard propulsion unit. 3,136,285, 6–9–64, Cl. 115—35.
Kiekhaefer, Elmer C., C. F. Alexander, Jr., and I. W. North, to Kiekhaefer Corp. Through transmission drive shaft mounting for inboard-outboard drive. 3,136,281, 6–9–64, Cl. 115—34.
Kiekhaefer, Elmer C., C. F. Alexander, Jr., and R. A. Boda, to Kiekhaefer Corp. Outboard propulsion unit mount providing for rotation in a general transverse vertical plane. 3,136,286, 6–9–64, Cl. 115—41.
Kiel, Othar M., to Jersey Production Research Co. Rotary drilling bit. 3,126,973, 3–31–64, Cl. 175—378.
Kielbach, Alvin W., to Aluminium Laboratories Ltd. Apparatus and procedure for contact between fluids. 3,122,594, 2–25–64, Cl. 261—94.
Kieler Howaldtswerke A.G.: *See*—
Meesen, Heinrich. 3,122,259.
Kienel, Gerhard, to W. C. Heraeus, G.m.b.H. Getter ion pumps. 3,134,533, 5–26–64, Cl. 230—69.
Kieninger & Obergfell: *See*—
Thoma, Fritz. 3,124,730.
Kienzle Apparate G.m.b.H.: *See*—
Bertrang, Hermann, and Haupt. 3,123,179.
Kelch, Heinz, and Schuh. 3,163,357.
Kittel, Hermann, Kohmann, and Kasper. 3,149,779.
Martens, Gunter. 3,127,507.
Martens, Gunther, and Wolf. 3,118,056.
Morwald, Josef. 3,131,315.
Morwald, Josef. 3,140,403.
Muller, Felix. 3,132,916.
Siefert, Roland. 3,161,013.
Vögtlin, Karl. 3,141,726.
Wolf, Gerhard. 3,117,309.
Wolf, Gerhard. 3,119,101.
Kienzle, Lester C., to Ametek, Inc. Trouser legging press. 3,133,366, 5–19–64, Cl. 38—17.
Kienzle Uhrenfabriken A.G.: *See*—
Knauer, Norbert. 3,117,411.
Siefert, Roland. 3,119,228.
Kiernan, Joseph V.: *See*—
Karlson, Eskil L., and Kiernan. 3,121,208.
Kierstead, Friend H., Jr., to Goodyear Aerospace Corp. Velocity-altitude ratio computer and camera control apparatus. 3,163,098, 12–29–64, Cl. 95—12.5.
Kiesbar, Charles W., and L. G. Weller, to Fuller Co. Pneumatic conveying apparatus. 3,129,980, 4–21–64, Cl. 302—23.
Kieschnich, William F., Jr.: *See*—
McGuire, William J., Jr., Kern, and Kieschnich. 3,155,-159.
Kiesel, George W., and E. M. Wegh, to General Electric Co. Multipole circuit breaker with three part insulating casing. 3,143,627, 8–4–64, Cl. 200—168.
Kiesel, George W., and E. M. Wegh, to General Electric Co. Multipole circuit breaker with novel contact arm construction. 3,155,805, 11–3–64, Cl. 200—166.
Kieselring, Th. & Albrecht: *See*—
Holzer, Carl. 3,130,426.
Kieserling, T. H., & Albrecht: *See*—
Holzer, Carl. 3,142,376.
Kiess, Harold C.: *See*—
Henry, Samuel P., and Kiess. 3,139,195.
Kiess, James A., Jr. Apparatus for recapping shell primers. 3,124,994. 3–17–64. Cl. 86—36.
Kiesslich, Klaus, and G. Raspe, to Schering A.G. 11β-hydroxyl-16α-methyl steroids and 14α-hydroxyl-16α-methyl steroids. 3,161,662, 12–15–64, Cl. 260—397.45.
Kietz, Erhard K., and J. F. Varnell, Jr., to Ampex Corp. Recording and reproducing system. 3,131,384, 4–28–64, Cl. 340—174.1.
Kifer, David E., to The L. R. Oatey Co. Flashing construction. 3,125,357, 3–17–64, Cl. 285—44.
Kiff, Ben W.: *See*—
Guest, Howard R., and Kiff. 3,149,130.
Guest, Howard R., Kiff, and Stansbury. 3,124,599.
Guest, Howard R., Stansbury, and Kiff. 3,127,449.
Kight, Vernon G., to Celanese Corp. of America. Twister ring. 3,148,496, 9–15–64, Cl. 57—119.
Kihara, Nobutoshi, to Sony Corp. Device to combine separate signals utilizing synchronized switching means. 3,117,239,
Kihara, Nobutoshi, and K. Suetsugu, to Sony Corp. Magnetic tape recorder. 3,144,521, 8–11–64, Cl. 179—100.2.
Kijima, Shizumasa, K. Naito, and T. Mori, to Eisai Co., Ltd. Purification process of tocopherol containing materials. 3,122,565, 2–25–64, Cl. 260—345.6.
Kikas, Leonhard. Snap-on utility bag. 3,116,773, 1–7–64, Cl. 150—1.
Kikuchi, Shoji: *See*—
Suzuki, Ken, and Kikuchi. 3,129,008.
Kikuchi, Takefusa, to Taiyu Shoji Kabushik Kaisha. Clamping device for a load lifting frame. 3,129,923, 4–21–64, Cl. 254—10.
Kikuchi, Yoshiyasu, to Nippon Electric Co. Ltd. Printer. 3,157,456, 11–17–64, Cl. 346—78.
Kikuyama, Tokuji. Automatic headlight control. 3,146,374, 8–25–64, Cl. 315—83.
Kilbourne, Harry W.: *See*—
Harman, Marion W., and Kilbourne. 3,118,924.
Kilburn, Tom, D. B. G. Edwards, and D. Aspinall, to International Business Machines Corp. Multiplying arrangements for digital computing machines. 3,123,707, 3–3–64, Cl. 235—164.
Kilbury, Paul D., Jr.: *See*—
Nickl, Franklyn G., and Kilbury. 3,148,457.
Kilby, Jack S., to Globe-Union Inc. Modular electrical units and assemblies thereof. 3,134,049, 5–19–64, Cl. 317—101.
Kilby, Jack S., to Texas Instruments Inc. Miniature semiconductor network diode and gate. 3,138,721, 6–23–64, Cl. 307—88.5.
Kilby, Jack S., to Texas Instruments Inc. Miniaturized electronic circuits. 3,138,743, 6–23–64, Cl. 317—101.
Kilby, Jack S., to Texas Instruments Inc. Miniaturized self-contained circuit modules and method of fabrication. 3,138,744, 6–23–64, Cl. 317—101.
Kile, John A., to Barnes Drill Co. Abrading machine. 3,132,451, 5–12–64, Cl. 51—138.
Kile, Otho, and N. L. Wright, to R. R. Donnelley & Sons Co. Magazine trimming device. 3,122,041, 2–25–64, Cl. 83—155.
Kilgore, Charles R., to Thompson Ramo Wooldridge, Inc. Fulcrum adjuster. 3,147,745, 9–8–64, Cl. 123—90.
Kilgore, Clarence B., and E. G. Nasser, to Tenex Corp. Process of and apparatus for recovering condensables from a gas stream. 3,121,002, 2–11–64, Cl. 55—33.

Kilgore, Clarence B., and E. G. Nasser, to Tenex Corp. Process or and apparatus for recovering selected components from a liquid stream. 3,137,549, 6–16–64, Cl. 55—33.

Kilgore, Robert L.: *See*—
Burnett, David W., Kilgore, and Hardcastle. 3,117,513.

Kilgore, Woodson B., to Firwood Mfg. Co. Fail safe valve for tire chuck on post-inflation machine. 3,128,807, 4–14–64, Cl. 144—288.

Kilian, Georg, and F.-W. Dördelmann, to Deutsche Tafelglas Aktiengesellschaft Detag. Apparatus for preventing the formation of devitrification lumps in the drawing chamber of sheet glass drawing devices. 3,151,201, 9–29–64, Cl. 13—6.

Kilian, Joseph J., to E. I. du Pont de Nemours and Co. Melt spinning process. 3,118,012, 1–14–64, Cl. 264—176.

Killackey, James J., R. D. Mueller, and K. K. Tang, to The Garrett Corp. Fuel evaporative engine oil cooling system. 3,147,823, 9–8–64, Cl. 184—6.

Killark Electric Mfg. Co.: *See*—
Desloge, Joseph. 3,139,480.

Kille, Leonard A., and R. L. Norton, to Polaroid Corp. Radio transmitter for use with flash photography. 3,153,195, 10–13–64, Cl. 325—102.

Killeen, Thomas J., to Continental Can Co., Inc. Packaging device. 3,152,430, 10–13–64, Cl. 53—255.

Killian, Henry R., to Henry Pratt Co. Molded in place rubber seat butterfly valve. 3,122,353, 2–25–64, Cl. 251—306.

Killian, Lawrence N.: *See*—
De Gray, Richard J., and Killian. 3,133,800.

Killilea, Thomas W. Outrigger trolling float. 3,142,929, 8–4–64, Cl. 43—43.13.

Killinger, Arden H., to American Home Products Corp. Bacterins and process of producing the same. 3,139,382, 6–30–64, Cl. 167—78.

Kilmer, Earl E.: *See*—
Menichelli, Vincent J., Fugh, Kilmer, and Baldwin. 3,135,204.

Kilmer, Earl E., to United States of America, Navy. Gasless igniter composition. 3,150,020, 9–22–64, Cl. 149—37.

Kilmer, Earl E., to United States of America, Navy. Explosive means for cutting an electric cable. 3,161,131, 12–15–64, Cl. 102—24.

Kilner, George E.: *See*—
Pierrelli, Joseph, and Kilner. 3,122,186.

Kilner, George E., and J. Perrelli, to Perrelli Freestone Machine, Inc. Freestone pitter. 3,141,483, 7–21–64, Cl. 146—28.

Kilpinen, Roy M.: *See*—
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Kilroy, Martin J.: *See*—
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Kiltie, Ordean, to Ballastran Corp. Three leg fractional turn transformer with winding leads and insulation between core parts. 3,132,318, 5–5–64, Cl. 336—172.

Kim, Chang S., to General Electric Co. Self-oscillating tunnel diode frequency converters. 3,131,353, 4–28–64, Cl. 325—449.

Kim, Charles W., E. H. Shattuck, and P. W. Langway, to Joseph Bancraft & Sons Co. Method and apparatus for making limited stretch bulked yarn. 3,132,462, 5–12–64, Cl. 57—34.

Kimball, A., Co.: *See*—
Braun, Karl J. 3,128,372.

Kimball, Donald G.: *See*—
Dazley, Frederick C., Kimball, and Vermeulen. 3,138,418.

Kimball, Donald G., to General Electric Co. Lampholder. 3,120,416, 2–4–64, Cl. 339—45.

Kimball, Donald G., and W. Vermeulen, to General Electric Co. Electrical connector. 3,134,632, 5–26–64, Cl. 339—195.

Kimball, George R.: *See*—
D'Olive, Charles R., Kimball, and Andreassen. 3,133,644.

Kimball, Lloyed R., to Sperry Rand Corp. Feedback stabilized scanning doppler radar. 3,146,445, 8–25–64, Cl. 343—9.

Kimball Mfg. Corp.: *See*—
Robinson, Merritt A. 3,125,873.

Kimball, Oliver P., R. J. Herbold, and W. E. Buck. Corneal profilometer. 3,141,396, 7–21–64, Cl. 95—11.

Kimball, Rollow D., to Technic Research Corp. Safety container. 3,129,834, 4–21–64, Cl. 215—9.

Kimball, Stanley M. Concrete wall form. 3,154,833, 11–3–64, Cl. 25—131.

Kimbel, Willis L. Launching device for aeronautical toys. 3,119,584, 1–28–64, Cl. 244—155.

Kimbell, Charles L., to Independent Exploration Co. Method and apparatus for monitoring the time accuracy of recording devices. 3,150,348, 9–22–64, Cl. 340—15.5.

Kimbell, Charles L., to Independent Exploration Co. Analog computer for use in seismic exploration. 3,163,845, 12–29–64, Cl. 340—15.5.

Kimbell, Charles L., to Independent Exploration Co. Analog computer for use in seismic exploration. 3,163,846, 12–29–64, Cl. 340—15.5.

Kimberley, John A., to Curtiss-Wright Corp. Fuel injection systems for rotary combustion engines. 3,126,876, 3–31–64, Cl. 123—8.

Kimberlin, Charles N., Jr.: *See*—
Eldib, Ibrahim A., Bieber, Adams, Hamner, and Kimberlin. 3,153,623.
Mattox, William J., Kimberlin, and Wilchinsky. 3,160,581.

Kimberlin, Charles N., Jr., H. G. Ellert, and H. E. Merrill, to Esso Research and Engineering Co. Conversion of naphthas to middle distillates. 3,142,633, 7–28–64, Cl. 208—46.

Kimberlin, Charles N., Jr., and W. F. Arey, Jr., to Esso Research and Engineering Co. Hydrocarbon conversion process to obtain gasoline with the use of a single distillation zone. 3,159,565, 12–1–64, Cl. 208—79.

Kimberly-Clark Corp.: *See*—
Beaulieu, Delton C., and Martinek. 3,163,066.
Burger, William H. 3,146,649.
Carpenter, Russell T. 3,133,855.
Carpenter, Russell T. 3,158,498.
Clotts, Henry R., Henderson, and Rightor. 3,131,435.
Dickens, William A. 3,149,025.
Donnelly, Harold F. 3,146,158.
Enloe, Kenneth M. 3,120,172.
Fird, Harold G., and Justice. 3,158,497.
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King, William R., to Honeywell Inc. Photographic projector. 3,151,523, 10–6–64, Cl. 88—28.
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Kingsbury, Franklin L., to National Lead Co. Method for treating titanium dioxide pigments. 3,147,131, 9–1–64, Cl. 106—300.
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Kingsley, Lewis A. Fixture and guide means for a roll-leaf hat stamping machine. 3,135,198, 6–2–64, Cl. 107—407.
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Knorr, Roland, Kiper, and Fackler. 3,162,108.
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Kiper, Gerd, to Agfa Aktiengesellschaft. Flash circuits for cameras. 3,134,312, 5–26–64, Cl. 95—11.5.
Kiper, Gerd, to Afga Aktiengesellschaft. Structure for operating camera shutters. 3,139,806, 7–7–64, Cl. 95—63.
Kiper, Gerd, F. Jakob, R. Knorr, U. W. Auer, and F. Hennig, to Agfa Aktiengesellschaft. Automatic cameras. 3,148,602, 9–15–64, Cl. 95—10.
Kippen, Albert J. Holsters. 3,126,136, 3–24–64, Cl. 224—2.
Kipper, Allen F.: *See*—
Bishop, Emerson C., and Kipper. 3,118,568.
Kipping, Vernon L. Photographic apparatus mechanism. 3,139,790, 7–7–64, Cl. 88—19.3.
Kirby, Frank J., and J. C. Keyes, to United States of America, Navy. Gyro verticality interferometer. 3,137,851, 6–16–64, Cl. 343—16.
Kirby, Frederick G. Alarm device for indicating lack of motion. 3,163,856, 12–29–64, Cl. 340—279.
Kirby, John F.: *See*—
Bass, Waldo E., and Kirby. 3,146,709.
Kircher, Andrew J. Tool for spring wire hose clamps. 3,161,086, 12–15–64, Cl. 81—9.3.
Kirchhoefer, Martin J., to Pulpamac, Inc. Portable scaffold. 3,150,743, 9–29–64, Cl. 182—115.
Kirchhof, Werner, W. Franke, and W. Stumpf, to Chemische Werke Huls Aktiengesellschaft. Process for the production of unsaturated alcohols from epoxides. 3,138,642, 6–23–64, Cl. 260—617.
Kirchmayer, Leon K., to General Electric Co. Electrical power computer apparatus. 3,117,221, 1–7–64, Cl. 235—185.
Kirchmayer, Leon K., to General Electric Co. Apparatus for controlling the interchange of power between a plurality of power systems. 3,124,699, 3–10–64, Cl. 307—57.
Kirchmier, Thomas M., to Westinghouse Electric Corp. Circuit for protecting a load circuit from initial power supply voltage transients. 3,155,847, 11–3–64, Cl. 307—93.
Kirchner, Egon G. Device for fine adjustment of machine parts. 3,161,069, 12–15–64, Cl. 74—110.
Kirchner, Frederick K., to Sterling Drug Inc. Lower alkyl N-(tertiary-amino-lower-alkyl) lower alkamates and quaternary ammonium salts thereof. 3,121,723, 2–18–64, Cl. 260—294.3.
Kirchner, Frederick K., to Sterling Drug Inc. Piperidine carboxamides and derivatives thereof. 3,133,061, 5–12–64, Cl. 260—247.1.
Kirchner, Frederick K., to Sterling Drug Inc. Indazole derivatives. 3,145,215, 8–18–64, Cl. 260—310.
Kirchner, George J.: *See*—
Henry, Edwin B., Jr., and Kirchner. 3,119,019.
Kirchner, Heinz W. Swimming aid. 3,134,995, 6–2–64, Cl. 9—336.
Kirchner, Henry P., to Cornell Aeronautical Laboratory, Inc. Low expansion ceramic article. 3,126,349, 3–24–64, Cl. 252—301.1.
Kirchner, Willi, and G. Braune, to Kugelfischer Georg Schafer & Co. Length measuring device, particularly for internal diameters. 3,158,942 12–1–64, Cl. 33—174.
Kireta, Andrew G. Cartridge dispenser. 3,138,287, 6–23–64, Cl. 221—94.
Kiritsy, Paul: *See*—
Hicks, John W., Jr., and Kiritsy. 3,146,082.
Kirk, Charles C., and R. S. Gregorian, to W. R. Grace & Co. Hydroxylated polymer products and preparation thereof. 3,156,682, 11–10–64, Cl. 260—94.9.
Kirk, Chester E.: *See*—
Raab, Owen E., and Kirk. 3,162,220.
Kirk, David N.: *See*—
Adams, Winifred J., Kirk, and Petrow. 3,127,424.
Kirk, David N., and V. Petrow, to The British Drug Houses Ltd. 6-methylene-3-oxo-Δ^4 steroids and process for preparation of same. 3,159,643, 12–1–64, Cl. 260—397.3.
Kirk, Donald G.: *See*—
Schmidt, Robert F., Leidecker, and Kirk. 3,162,877.
Kirk, Harold L., to American Air Filter Co., Inc. Control arrangement. 3,160,738, 12–8–64, Cl. 219—492.
Kirk, James H.: *See*—
Mrstik, Adolph V., Kirk, and Young. 3,150,645.
Kirk, James H., to Sinclair Research, Inc. Fuel oil composition. 3,132,083, 5–5–64, Cl. 208—15.
Kirk, Joseph R., to Atwood Vacuum Machine Co. Safety roller door latch mechanisms. 3,130,997, 4–28–64, Cl. 292—280.
Kirk, Joseph R., E. L. Allen, A. Johnson, deceased (by O. Nelson, administrator), to Atwood Vacuum Machine Co. Trailer couplings. 3,163,445, 12–29–64, Cl. 280—513.
Kirk, Josephine M. Stand for children's clothing. 3,126,237, 3–24–64, Cl. 312—204.
Kirk, Robert A.: *See*—
Babcock, David L., Ferry, and Kirk. 3,120,781.
Kirk, Sidney A.: *See*—
Bent, Dennis H., Kirk, and Astley. 3,161,366.
Kirk, Thomas E., to General Motors Corp. Semiconductor voltage regulator. 3,137,811, 6–16–64, Cl. 322—73.
Kirk, Wilber W.: *See*—
Kass, Stanley, Kirk, and Bright. 3,148,055.
Kirk, William H.: *See*—
Dabanian, Karnig H., and Kirk. 3,154,939.
Endicott, Donald L., and Kirk. 3,120,191.
Kirk-Wing Co.: *See*—
Bochman, Harry L., Jr. 3,132,829.
Wing, George S. 3,135,486.
Kirkby, Henry W.: *See*—
Hardwick, Donald, and Kirkby. 3,135,600.
Kirkconnell, Thomas W., and C. D. Tolson. Educational projection apparatus. 3,146,663, 9–1–64, Cl. 88—24.
Kirkeby, Eivind. Joint arrangement. 3,150,891, 9–29–64, Cl. 287—92.
Kirkeby-Natus Corp.: *See*—
Chitty, Michael W. 3,118,629.
Kirkendall, Lyle G.: *See*—
Pilcher, James O., II, and Kirkendall. 3,118,333.
Kirker, Robert L., to Kennecott Copper Corp. Rock drill bit. 3,128,835, 4–14–64, Cl. 175—401.
Kirkham, Arthur J. Tent. 3,128,781, 4–14–64, Cl. 135—1.
Kirkham, Arthur J. Accessory heating system for tractors and similar equipment. 3,155,318, 11–3–64, Cl. 237—12.3.
Kirkham, Howard C. Pneumatic separator for pulverulent materials. 3,117,081, 1–7–64, Cl. 209—12.
Kirkhof Mfg. Corp.: *See*—
Carrigan, William H., Blanding, and Brouwer. 3,150,563.
Emaus, William G., Jr., and Carrigan. 3,137,830.
Tiejema, Irwin V. 3,119,085.
Kirkhope, James, to Rolls-Royce Ltd. Apparatus for ultrasonic flaw detection. 3,147,613, 9–8–64, Cl. 73—67.7.
Kirkland, Dolores H. Commode bowl vent assembly. 3,120,665, 2–11–64, Cl. 4—213.
Kirkland, Joseph T. Electric hair edger and drive mechanism therefor. 3,132,424, 5–12–64, Cl. 30—210.
Kirkland, Wyatt S. Spin-blast tool. 3,137,974, 6–23–64, Cl. 51—11.
Kirkpatrick, Donald L.: *See*—
Thomas, Walter S., Jr., and Kirkpatrick. 3,159,040.
Kirkpatrick, Martin. Textile yarn and fabric. 3,126,924, 3–31–64, Cl. 139—425.
Kirkpatrick, Willard H., and V. L. Seale, to Nalco Chemical Co. Tall oil amide for inhibiting corrosion. 3,134,759, 5–26–64, Cl. 260—97.5.
Kirkpatrick, Willard H., V. L. Seale, and A. W. Church, to Nalco Chemical Co. Demulsification of crude oil-in-water emulsions and chemicals useful therein. 3,150,102, 9–22–64, Cl. 252—344.
Kirkpatrick, Willard H., and V. L. Seale, to Nalco Chemical Co. N-substituted polyalkylene polyamines having 2-hydroxyethyl and mono-secondary-hydroxy hydrocarbon substituents. 3,152,188, 10–6–64, Cl. 260—584.
Kirkpatrick, Willard H., V. L. Seale, and R. E. Berkley, to Nalco Chemical Co. Aqueous foams and foaming agents. 3,155,178, 11–3–64, Cl. 175—69.
Kirkpatrick, Wylie C., to W. R. Grace & Co. Protective padding. 3,131,240, 4–28–64, Cl. 264—230.
Kirkpatrick, Wylie C., J. W. Harrison, and R. D. Lowry, to W. R. Grace & Co. Method of calibrating a temperature gauge. 3,127,760, 4–7–64, Cl. 73—1.
Kirkwood Carbon Corp.: *See*—
Jop, Roman M. 3,153,164.
Kirkwood, Keith S.: *See*—
Faber, Lawrence P., Jr., and Kirkwood. 3,144,802.
Kirkwood, Lewis E., to The Dow Chemical Co. Dispensing container. 3,129,870, 4–21–64, Cl. 229—51.
Kirkwood, Lewis E., H. W. Bull, D. D. Cornell, and K. T. Buttery, to The Dow Chemical Co. Dispensing container. 3,129,869, 4–21–64, Cl. 229—51.
Kirlin Co., The: *See*—
Kirlin, John A. 3,135,490.
Kirlin, John A., to The Kirlin Co. Support for electric lamp holder. 3,135,490, 6–2–64, Cl. 248—229.
Kirouac, Ovila. Adjustable wrench. 3,127,800, 4–7–64, Cl. 81—166.
Kirr, Frederick M., C. J. Klosterman, and W. D. Spray, to General Precision, Inc. Analog-to-digital converter. 3,163,858, 12–29–64, Cl. 340—347.
Kirsch Co.: *See*—
Ford, James A. 3,151,666.
Ford, James A. 3,155,149.
Ford, Ledger D., and Bell. 3,119,442.
Kirsch, Francis W., to Air Products and Chemicals, Inc. Selective hydrogenation of fats and fatty oils. 3,123,626, 3–3–64, Cl. 260—409.
Kirsch, Howard A.: *See*—
Jordan, Terence B., and Kirsch. 3,158,575.
Kirsch, Jerry, and E. J. Tito. Shock-absorbing motion-retarding pallet. 3,119,357, 1–28–64, Cl. 108—51.
Kirsch, Warand R.: *See*—
Anderson, Robert B., and Kirsch. 3,154,227.
Kirschner, Leon. Composite roofing. 3,152,035, 10–6–64, Cl. 161—146.

Kirschner, Leon I.: *See*—
Kirschner, Louis A. and L. I. 3,134,500.

Kirschner, Louis A. and L. I. Closure means and also to means for securing a drum trap cover to the drum trap. 3,134,500, 5–26–64, Cl. 220—25.

Kirschning, Hans J., to Klockner-Werke AG. Radiation resistant steel. 3,119,687, 1–28–64, Cl. 75—128.

Kirschning, Hans J., to Klockner-Werke AG. Method and apparatus for coating base metal with facing metal. 3,139,505, 6–30–64, Cl. 219—73.

Kirschning, Hans J., and H. Schwenke, to Klockner-Werke AG. Method and apparatus for loosening windings of a coil prior to heat treatment. 3,154,299, 10–27–64, Cl. 263—40.

Kirshenbaum, Isidor: *See*—
Wood, Donald W., Lewis, Johnson, and Kirshenbaum. 3,153,076.

Kirshenbaum, Isidore, S. B. Mirviss, and G. Karoly, to Esso Research and Engineering Co. Graft copolymerization using boron alkyls in the presence of oxygen as catalysts. 3,141,862, 7–21–64, Cl. 260—45.5.

Kirss, Voldemar, and R. G. Spaunburgh, to Allied Chemical Corp. Manufacture of 4,4-methylene-bis (phenyl isocyanate). 3,163,666, 12–29–64, Cl. 260—453.

Kirstahler, Alfred: *See*—
Gotte, Ernst, and Kirstahler. 3,155,470.

Kirsten, Paul A. Cutter head for cylinder type flakers. 3,162,222, 12–22–64, Cl. 144—172.

Kirsten, Rolfe, and H. Wurst, to Hofliger & Karg. Former for the production of tubing. 3,155,018, 11–3–64, Cl. 93—82.

Kirsten, Walter B. Christmas tree light bulb mounting means. 3,120,351, 2–4–64, Cl. 240—10.

Kirtland, William. Cotton pick-up tire. 3,143,841, 8–11–64, Cl. 56—28.

Kirwin, Ralph S. Dresser for an abrasive wheel. 3,128,754, 4–14–64, Cl. 125—11.

Kischio, Werner: *See*—
Rabenau, Albrecht K. H. T., Kischio, and Grimmeiss. 3,152,992.

Kise, Joseph G.: *See*—
Schroter, Albert R., Bojens, and Kise. 3,139,031.

Kise, Mearl A., and C. E. Winslow, Jr., to Virginia Chemicals & Smelting Co. Continuous method for synthesis of hydroxylamine sulfate. 3,149,912, 9–22–64, Cl. 23—117.

Kiselev, Mikhail M., and P. A. Podzigun, to Dmitrovsky Excavatorny Zavod. Multi-bucket trench excavator with chain side cutters. 3,146,538, 9–1–64, Cl. 37—80.

Kiser, Vernon R. Portable camp stove. 3,124,057, 3–10–64, Cl. 99—340.

Kish, Arthur S.: *See*—
Ziherl, Frank A., and Kish. 3,138,157.

Kish, Michael, Jr., to Atlantic Products Corp. Golf bag construction. 3,147,786, 9–8–64, Cl. 150—1.5.

Kish, Michael, Jr., to Atlantic Products Corp. Carrying bag construction. 3,158,238, 11–24–64, Cl. 190—48.

Kish, Steven P. Method of making plastic fixtures. 3,161,555, 12–15–64, Cl. 156—245.

Kishibay, Charles O.: *See*—
Hanson, Walter J., and Kishibay. 3,152,543.

Kishida, Mitsuhiro, to Mitsubishi Denki Kabushiki Kaisha. Method of making a condenser-type terminal bushing. 3,146,518, 9–1–64, Cl. 29—155.5.

Kishinsky, Lloyd S., to Republic Aviation Corp. Test device for signal-radiating and receiving equipment. 3,149,284, 9–15–64, Cl. 325—67.

Kishizoe, Shigeru: *See*—
Sawa, Natsuo, Tsujino, Kishizoe, and Yoshida. 3,142,702.

Kishline, Alan R., to The American Motors Corp. Vehicle body construction. 3,157,428, 11–17–64, Cl. 296—28.

Kishpaugh, Allan R.: *See*—
Hogan, William J., and Kishpaugh. 3,123,830.

Kisker, William R. Vacuum switch. 3,141,056, 7–14–64, Cl. 84—1.03.

Kislan, Edward J., H. H. Hoeltje, and N. O. Regan, 60% to H. H. Hoeltje, Jr., and 40% to M. Stern. Transistor mounting pad. 3,122,679, 2–25–64, Cl. 317—100.

Kisliuk, Paul P., and D. A. Kleinman, to Bell Telephone Laboratories, Inc. Optical maser. 3,134,837, 5–26–64, Cl. 88—1.

Kisovec, Adrian, to Hico Corp. Adjustable framework members. 3,124,223, 3–10–64, Cl. 189—37.

Kissinger, Heinrich, F. Arzt, and A. Keck, to Vdo Tachometer Werke Adolf Schindling G.m.b.H., FA. Parking-meter. 3,126,995, 3–31–64, Cl. 194—19.

Kissler, Wolfgang, to Vereinigte Glanzstoff-Fabriken AG. Process and apparatus for crimping a multi-filament yarn. 3,153,891, 10–27–64, Cl. 57—34.

Kister, Albert T., to Shell Oil Co. Production of alpha, beta-unsaturated aliphatic aldehydes. 3,159,680, 12–1–64, Cl. 260—604.

Kistiakowsky, George B.: *See*—
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Kistler, Gerald A., to Halsey W. Taylor Co. Thermoelectric water coolers. 3,137,141, 6–16–64, Cl. 62—3.

Kistler, Samuel S., and C. V. Rue, to Wakefield Corp. Reinforced grinding wheel and reinforcing structure therefor. 3,123,948, 3–10–64, Cl. 51—204.

Kistler, Samuel S., and C. V. Rue, to Wakefield Corp. Abrasive articles. 3,156,545, 11–10–64, Cl. 51—298.

Kistler, Walter P.: *See*—
Sonderegger, Hans C., and Kistler. 3,151,258.

Kistner, Harold J., to International Business Machines Corp. Stacking apparatus. 3,148,879, 9–15–64, Cl. 271—87.

Kitagawa, Hiroshi, M. Yonago, and M. Fujita, to Kabushiki Kaisha Hitachi Seisakusho. Alkaline dry cell. 3,154,435, 10–27–64, Cl. 136—137.

Kitahonoki, Keizo, and M. Kakehi. Novel bicyclo(2,2,2)octane compounds. 3,126,395, 3–24–64, Cl. 260—319.

Kitahonoki, Keizo, and A. Irie. Novel bicyclo(2,2,2)octane derivatives. 3,126,396, 3–24–64, Cl. 260—319.

Kitajima, Kazuo: *See*—
Aihara, Masumi, and Kitajima. 3,138,452.

Kitamura, Kenzaburo. Spring apparatus for the suspension of vehicles. 3,157,392, 11–17–64, Cl. 267—1.

Kitano, Yoshizo. High-speed, automatic screw cutting machine. 3,160,898, 12–15–64, Cl. 10—101.

Kitasaki, Kiyoshi: *See*—
Bengelsdorf, Irving S., and Kitasaki. 3,152,165.
Hunter, Don L., Kitasaki, and Willcockson. 3,131,071.

Kitasaki, Kiyoshi, G. W. Willcockson, I. S. Bengelsdorf, and W. G. Woods, to United States Borax & Chemical Corp. Boron-containing Diels-Alder adduct compounds. 3,135,781, 6–2–64, Cl. 260—462.

Kitasaki, Kiyoshi, and G. W. Willcockson, to United States Borax & Chemical Corp. Di-[bis(dialkylamino)boryl]benzenes. 3,140,313, 7–7–64, Cl. 260—551.

Kitawaki, Rokuro: *See*—
Sugino, Kiichiro, Shirai and Kitawaki. 3,130,224.

Kitchen, Donald M. Connector for cement radius forms. 3,117,358, 1–14–64, Cl. 25—118.

Kitchen, Leland G., to Phillips Petroleum Co. Automatic controls for the liquefaction and separation of gases. 3,148,966, 9–15–64, Cl. 62—21.

Kitchingham, John D., Jr. Safety stirrup. 3,157,977, 11–24–64, Cl. 54—49.

Kiteley, George, to Foseco International Ltd. Dressing of moulds for castings and ingots. 3,131,443, 5–5–64, Cl. 22—193.

Kito, Ryoichiro, T. Inomata, and N. Kanetake, to Kabushiki Kaisha Kito Seisakusho. Element link for link chains. 3,124,929, 3–17–64, Cl. 59—90.

Kitrosser, Samuel, to Avant Inc. Camera. 3,128,685, 4–14–64, Cl. 95—18.

Kitscha, Hector: *See*—
Hyink, Roy, Kitscha, and Quaal. 3,129,304.

Kitselman, Harry L., to Indiana Steel & Wire Co., Inc. Terminal housing. 3,149,198, 9–15–64, Cl. 174—52.

Kitson, Robert B., to E. I. du Pont de Nemours and Co. Process for preparing printing elements. 3,129,098, 4–14–64, Cl. 96—35.

Kitson, Robert E., and C. E. Reese, to E. I. du Pont de Nemours and Co. Staple fiber blend. 3,157,021, 11–17–64, Cl. 57—140.

Kittel, Hermann, W. Kohmann, and B. Kasper, to Kienzle Apparate G.m.b.H. Zero suppression means for punch mechanism controlled by pin carriage position. 3,149,779, 9–22–64, Cl. 235—60.25.

Kittel, Walter. Contacting apparatus for rectifying and contacting columns. 3,156,746, 11–10–64, Cl. 261—114.

Kittelson, LeRoy O., to Engineering Development Corp. Valves for internal combustion engines. 3,147,747, 9–8–64, Cl. 123—188.

Kittelson, Mathias H. Impact absorbing seat belt. 3,132,898, 5–12–64, Cl. 297—386.

Kittelson, Mathias H. Control apparatus. 3,144,220, 8–11–64, Cl. 244—42.

Kitter, Volda, to Voldale, Inc. Process for purifying aqueous media. 3,136,716, 6–9–64, Cl. 210—62.

Kitterman, Donald M. Decoration dispenser and the method of making, filling, and dispensing from the same. 3,157,312, 11–17–64, Cl. 222—1.

Kitterman, Gary L. Container and closure therefor. 3,125,237, 3–17–64, Cl. 215—43.

Kitterman, Gary L. Valve closure for bottles and the like. 3,157,323, 11–17–64, Cl. 222—520.

Kittila, Richard S., to E. I. du Pont de Nemours and Co. Complex of phenylureas and chlorobenzoic acids and use as herbicides. 3,125,431, 3–17–64, Cl. 71—2.6.

Kittler, Milton J., to Holley Carburetor Co. Print hammer mechanism. 3,128,694, 4–14–64, Cl. 101—93.

Kittler, Milton J., to Holley Carburetor Co. Fuel filter. 3,136,717, 6–9–64, Cl. 210—95.

Kittler, Milton J., to Holley Carburetor Co. Print hammer mechanism. 3,139,820, 7–7–64, Cl. 101—93.

Kittler, Milton J., to Holley Carburetor Co. Choke mechanism. 3,159,692, 12–1–64, Cl. 261—39.

Kittrell, Richard L.: *See*—
Johnson, Lloyd D., Kittrell, and Meier. 3,131,340.

Kiva Corp.: *See*—
Lewis, William R., Farrar, and Lindley. 3,158,202.

Kivlighn, Herbert D., to Corning Glass Works. Method of making semicrystalline ceramic bodies and the composition thereof. 3,146,114, 8–25–64, Cl. 106—39.

Kivisto, Lauri J.: *See*—
Polko, Peter P., and Kivisto. 3,142,193.

Kiwi, Walter, to R. H. Hood Co. Operator for microswitches. 3,144,537, 8–11–64, Cl. 200—153.

Kiyasu, Zeniti, S. Amada, and T. Hayashi. High speed recording device. 3,116,963, 1–7–64, Cl. 346—107.

Kiyasu, Zeniti, and H. Shimura, to Nippon Telegraph and Telephone Public Corp. Superconductive element. 3,153,-777, 10–20–64, Cl. 340—173.1.
Kjelltrup, Donald C.: *See*—
Clausen, Marvin D. 3,143,805.
Kjell-Berger, Olof, and E. Grane, to Rockwood Aktiebolaget. Mineral wool. 3,154,463, 10–27–64, Cl. 161—169.
Kjellman, Thomas K., and F. O. Watson, to The Bendix Corp. Humidity responsive device. 3,123,687, 3–3–64, Cl. 200—61.06.
Kjonaas, Manley, to Sinclair Research, Inc. Detergent and anti-oxidant lubricant. 3,132,101, 5–5–64, Cl. 252—32.7.
Kjonaas, Manley, to Sinclair Research Inc. Oxidation resistant lubricant. 3,135,692, 6–2–64, Cl. 252—32.7.
Kjonaas, Manley, and D. W. Young, to Sinclair Research Inc. Lubricant composition. 3,121,058, 2–11–64, Cl. 252—42.7.
Klaas, Ruth E. B.: *See*—
Braisdell, Donald S., and Klaas. 3,142,638.
Klaasen, Gerald, to Chrysler Corp. Automobile roof mounting. 3,127,213, 3–31–64, Cl. 296—28.
Kladko, Martin, and M. M. Lee, to General Aniline & Film Corp. Process for condensation reactions. 3,149,148, 9–15–64, Cl. 260—465.
Klager, Karl: *See*—
Frankel, Milton B., and Klager. 3,139,461.
Frankel, Milton B., and Klager. 3,159,678.
Klager, Karl, R. D. Geckler, and R. L. Parrette, to Aerojet-General Corp. Solid propellant compositions containing polyurethane resins. 3,132,976, 5–12–64, Cl. 149—19.
Klahr, Carl N.: *See*—
Held, Kalman M., and Klahr. 3,121,794.
Klakovich, Eugene M., to Markline Electronic Products Inc. Extensible chassis slide. 3,133,768, 5–19–64, Cl. 308—3.6.
Klammer, Alfred W. Fishing line unwinder. 3,156,065, 11–10–64, Cl. 43—43.13.
Klamp, Paul, to Mechanical Handling Systems, Inc. Subflooring conveyor control system. 3,127,849, 4–7–64, Cl. 104—88.
Klann, Paul A. Electric switching assembly useful as a key action for organs. 3,157,753, 11–17–64, Cl. 200—18.
Klapdohr, Friedrich: *See*—
Isenberg, Gustav, and Klapdohr. 3,157,065.
Klapes, Michael C., and E. G. Cleveland, to Delta Engineering Corp. Apparatus for conveying and filling containers. 3,129,544, 4–21–64, Cl. 53—64.
Klasing, Charles L., Jr., to Klasing Hand Brake Co. Load control device for a railway freight car or the like. 3,147,-716, 9–8–64, Cl. 105—369.
Klasing, Charles L., Jr., to Klasing Hand Brake Co. Articulated tie-down load control bracket. 3,154,026, 10–27–64, Cl. 105—369.
Klasing, Charles L., Jr., and W. H. Sale, to Klasing Hand Brake Co. Journal box lid with sealing and venting means. 3,144,281, 8–11–64, Cl. 308—50.
Klasing Hand Brake Co.: *See*—
Klasing, Charles L., Jr. 3,147,716.
Klasing, Charles L., Jr. 3,154,026.
Klasing, Charles L., Jr., and Sale. 3,144,281.
Klass, Donald L., to The Pure Oil Co. Preparation of quaternary ammonium betaine salts. 3,131,189, 4–28–64, Cl. 260—279.
Klass, Donald L., to The Pure Oil Co. Apparatus and method for separating particles. 3,133,876, 5–19–64, Cl. 209—1.
Klass, Donald L., to The Pure Oil Co. Motion transmitting apparatus. 3,142,978, 8–4–64, Cl. 73—12.
Klass, Donald L., to The Pure Oil Co. Process for the production of carbonyl compounds. 3,147,203, 9–1–64, Cl. 204—80.
Klass, Donald L., and V. Brozowski, to The Pure Oil Co. Reaction products of nitriles and sulfur trioxide. 3,143,-552, 8–4–64, Cl. 260—327.
Klass, Donald L., and J. E. King, to The Pure Oil Co. Process for preparing resinous compositions from alkylene sulfates and alkylene oxides. 3,154,526, 10–27–64, Cl. 260—79.3.
Klass, Donald L., and T. W. Martinek, to The Pure Oil Co. Reaction products of alcohols with carbyl sulfates. 3,158,-639, 11–24–64, Cl. 260—456.
Klass, Donald L., and J. E. King, to The Pure Oil Co. Process for preparing amino-substituted sulfate esters. 3,159,663, 12–1–64, Cl. 260—457.
Klass, Donald L., and T. W. Martinek, to The Pure Oil Co. Preparation of β-sulfato-ethane sulfonamides and amine salts thereof. 3,163,667, 12–29–64, Cl. 260—458.
Klatchko, George A., to The Budd Co. Ultrasonic scanning head. 3,121,326, 2–18–64, Cl. 73—67.7.
Klaube, Herman: *See*—
Tripoli, Joseph V., and Klaube. 3,151,838.
Klaue, Hermann. Power drive. 3,146,627, 9–1–64, Cl. 74—125.5.
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Hartung, Sigurd, Klauke, and Schwarz. 3,118,922.
Klaus, Frederick C.: *See*—
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Klaus, Richard M., to Dover Corp. Capping means. 3,118,-561, 1–21–64, Cl. 220—55.
Klause, Franz. Centrifugal pumps. 3,155,043, 11–3–64, Cl. 103—87.
Klausner, Kenneth, to Allied Chemical Corp. Foam producing formulations. 3,131,152, 4–28–64, Cl. 252—305.
Klausner, Kenneth, to Allied Chemical Corp. Foam producing compositions. 3,131,153, 4–28–64, Cl. 252—305.
Klausner, Kenneth, to Allied Chemical Corp. Foam producing compositions. 3,131,154, 4–28–64, Cl. 252—305.
Klawitter, Delmar C., to Le Tourneau-Westinghouse Co. Tension device. 3,127,151, 3–31–64, Cl. 254—164.
Klebe, Johann F., to General Electric Co. Composition for use as deformable medium and apparatus using the same. 3,125,636, 3–17–64, Cl. 178—7.5.
Klebe, Johann F., to General Electric Co. Composition and apparatus used in the same. 3,125,637, 3–17–64, Cl. 178—7.5.
Kleber Colombes: *See*—
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Kleber, Edward J., Jr., and E. R. Majka, to Union Carbide Corp. Bandsaw blade. 3,154,839, 11–3–64, Cl. 29—95.
Kleber, Eugene V., and A. R. Bobrowsky, to Nuclear Corp. of America. Nuclear radiation shields for electronic components. 3,148,280, 9–8–64, Cl. 250—108.
Kleemann, Heinrich: *See*—
Storp, Klaus, and Kleemann. 3,116,970.
Klees, George N., to North American Aviation, Inc. Transistor alternating-current voltage regulator. 3,153,187, 10–13–64, Cl. 323—22.
Kleesattel, Claus, to Cavitron Ultrasonics Inc. Feedback compensated magnetostrictive vibration device. 3,151,284, 9–29–64, Cl. 318—118.
Kleesattel, Claus. Resonant sensing devices. 3,153,338, 10–20–64, Cl. 73—67.1.
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Fath, Douglas W., Kleewein, Kraschinsky, Lutsch, and Weiss. 3,155,277.
Kleffman, Mildred. Furniture-ensemble retaining device. 3,162,484, 12–22–64, Cl. 297—248.
Klefisch, Rudolf. Annealing box cover. 3,142,483, 7–28–64, Cl. 263—49.
Kleiman, Abraham. Material handling apparatus. 3,123,-229, 3–3–64, Cl. 214—1.
Kleiman, Gerald, to Process Equipment & Automation, Inc. Multiple station transfer unit. 3,158,268, 11–24–64, Cl. 214—1.
Klein, Alexander, ⅛ each to C. H. Best, and L. A. Turzille. Rod-ball mill. 3,124,314, 3–10–64, Cl. 241—172.
Klein, Alexander, to Chemically Prestressed Concrete Corp. Calcium aluminosulfate and expansive cements containing same. 3,155,526, 11–3–64, Cl. 106—89.
Klein, Alfred W.: *See*—
Lippart, John, and Klein. 3,118,052.
Klein, Anthony. Electric meter conversion brackets. 3,136,-925, 6–9–64, Cl. 317—107.
Klein, Arthur F., to American Cyanamid Co. 4-hydroxyalkylamino-1,8-naphthalic acid imide dye salts of oil-solubilizing quaternary ammonium halides. 3,147,264, 9–1–64, Cl. 260—281.
Klein, Donald E., to Garlock Inc. Fluid-cooled rod-packing assembly. 3,147,982, 9–8–64, Cl. 277—16.
Klein, Edwin A., to Allied Chemical Corp. Process for bonding polyethylene to non-porous surfaces and laminated polyethylene product. 3,143,364, 8–4–64, Cl. 285—55.
Klein, Elias, to Courtaulds, Ltd. Control of finish on fibrous material by the use of a fluorescing substance. 3,118,060, 1–14–64, Cl. 250—71.
Klein, Eugene L., to Phillips Petroleum Co. Range control of self propelled missile. 3,142,959, 8–4–64. Cl. 60—35.6.
Klein, Frank F., Jr. Bicycle lock. 3,136,149, 6–9–64, Cl. 70—187.
Klein, George I., L. B. Post, and R. E. Newby, to Stauffer Chemical Co. Coated P_2O_5 and its method of manufacture. 3,136,603, 6–9–64, Cl. 23—165.
Klein, George J., to The De Havilland Aircraft of Canada Ltd. Collable extensible apparatus. 3,144,215, 8–11–64, Cl. 242—54.
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Reisner, David B., Gister, and Klein. 3,124,588.
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Klein, John J., to General Motors Corp. Oil burner assembly. 3,124,193, 3–10–64, Cl. 158—28.
Klein, Joseph L., A. R. Kaufmann, and P. Loewenstein, to United States of America, Atomic Energy Commission. Process and product of metallurgically joining zirconium to ferrous metal. 3,140,108, 7–7–64, Cl. 287—119.
Klein, Joseph J., and J. B. Durgeloh, to Fiber Bond Corp. Gas filter. 3,154,393, 10–27–64, Cl. 55—501.
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Klein, Keith W., and D. B. Powell, to General Electric Co. Electric circuit breaker with toggle positioning means. 3,155,803, 11–3–64, Cl. 200—153.
Klein, Keith W., and D. B. Powell, to General Electric Co. Electric circuit breaker with improved trip means. 3,162,-739, 12–22–64, Cl. 200—88.
Klein, Keith W., and D. B. Powell, to General Electric Co. Circuit breaker with latching type auxiliary tripping means. 3,162,740, 12–22–64, Cl. 200—106.

Klein, Leonard: *See*—
Kuzell, Charles R., Fowler, Davis, Klein, and MacDougall. 3,125,439.

Klein, Louis F. Teeth cleaning and treating device. 3,134,127, 5–26–64, Cl. 15—321.

Klein, Louis H., ⅛ each to M. Falk and C. Booth. Retractable blast deflector and acoustic barrier. 3,141,639, 7–21–64, Cl. 244—114.

Klein, Markus. End-rest assembly. 3,160,050, 12–8–64, Cl. 84—327.

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Klein, Martin L., and J. S. Sutton, to North American Aviation, Inc. Magnetic recording device. 3,125,759, 3–17–64, Cl. 346—74.

Klein, Martin L., and A. Goudey, to Dynair Electronics, Inc. Moisture measuring system. 3,146,617, 9–1–64, Cl. 73—73.

Klein, Max, to Borg-Warner Corp. Polymerization reactor. 3,140,917, 7–14–64, Cl. 23—252.

Klein, Nathan, to United States of America, Army. Rare earth shield. 3,123,576, 3–3–64, Cl. 252—478.

Klein, Norman E., to Deering Milliken Research Corp. Drafting and scavenging apparatus. 3,122,794, 3–3–64, Cl. 19—288.

Klein, Norman E., to Deering Milliken Research Corp. Fiber handling drafting roll apparatus and method of use. 3,131,438, 5–5–64, Cl. 19—288.

Klein, Richard F. Portable storage tank. 3,160,171, 12–8–64, Cl. 137—344.

Klein, Siegfried, and J. Pottier, to Commissariat a l'Energie Atomique. Ion accelerators. 3,143,680, 8–4–64, Cl. 313—63.

Klein, Walter, to Beckman Instruments, Inc. Immediate sequential access memory. 3,141,153, 7–14–64, Cl. 340—173.

Klein, Walter A., and H. A. Lincoln, to The Dow Chemical Co. Method for dusting tubular film. 3,153,599, 10–20–64, Cl. 117—18.

Klein, Walter W., Jr., and L. P. Stephenson, to California Research Corp. Information selection programmer employing relative amplitude, absolute amplitude and time coherence. 3,149,302, 9–15–64, Cl. 340—15.5.

Klein, Walter W., Jr., P. M. Aagaard, O. A. Fredriksson, W. E. Shomaker, and L. P. Stephenson, to California Research Corp. Seismic cross-section plotter. 3,149,303, 9–15–64, Cl. 340—15.5.

Klein, William G., and A. K. Swanson, to Fabric Research Laboratories, Inc. Fabric flaw detector. 3,116,621, 1–7–64, Cl. 66—166.

Klein, Wolfgang, to International Standard Electric Corp. Paging system. 3,137,771, 6–16–64, Cl. 179—18.

Kleinberg, Joseph S., and D. R. MacCollum. Building lead-in connection for a pipe. 3,125,358, 3–17–64, Cl. 285—55.

Kleindienst, Herbert, to Daimler-Benz Aktiengesellschaft. Connecting rod construction. 3,149,503, 9–22–64, Cl. 74—579.

Kleine, Werner K. M., to G. Heller. Guiding device for borer. 3,120,767, 2–11–64, Cl. 77—62.

Kleine-Albers, August, to Gebruder Goller Ankerwerk. Method and apparatus for controlling the supply of energy to a plastic in a plasticizing machine. 3,146,287, 8–25–64, Cl. 264—329.

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Kleinman, Henry M., and L. Plus, to Radio Corp. of America. Reflex amplifier circuit with reduction of minimum volume control play-through effect. 3,144,611, 8–11–64, Cl. 325—486.

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Kleinschmidt, Edward F., and C. P. Anderson, to SCN Corp. Tape controlled transmitter. Re. 25,654, 10–6–64, Cl. 178—17.

Kleinschmidt, Edward F., H. A. Anderson, D. F. Frick, C. H. Clark, and J. F. Chinlund, to SCM Corp. Printer reperforator. 3,150,235, 9–22–64, Cl. 178—92.

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Kleinsorge, George G. 3,138,700.

Kleiss, Louis D., to Phillips Petroleum Co. Analog process control. 3,123,086, 3–3–64, Cl. 137—4.

Kleiss, Louis D., and J. R. Connell, to Phillips Petroleum Co. Fluid blending system. 3,124,148, 3–10–64, Cl. 137—93.

Kleist, Dale, to Owens-Corning Fiberglas Corp. Method and apparatus for forming a high density fibrous mass. 3,152,200, 10–6–64, Cl. 264—115.

Kleist, Herman W., to Dole Refrigerating Co. Automotive air conditioning system. 3,128,608, 4–14–64, Cl. 62—243.

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Klema, Kenneth G., to S. C. Johnson & Son, Inc. Broadcast spreader. 3,135,517, 6–2–64, Cl. 275—12.

Klemchuk, Peter, and M. Dexter, to Geigy Chemical Corp. Di(alkyphenyl mercaptide) salts for the stabilization of polyvinyl chloride. 3,136,740, 6–9–64, Cl. 260—45.75.

Klement, John F., to Ampco Metal, Inc. Aluminum bronze alloy having improved wear resistance by the addition of cobalt, chromium and manganese. 3,117,002, 1–7–64, Cl. 75—162.

Klement, John F., to Ampco Metal, Inc. Aluminum bronze alloy containing vanadium and manganese and having improved wear resistance. 3,147,113, 9–1–64, Cl. 75—162.

Klement, John F., to Ampco Metal, Inc. Aluminum bronze alloy containing iron and cobalt and method of heat treating the same. 3,156,559, 11–10–64, Cl. 75—162.

Klement, John F., to Ampco Metal, Inc. Method of forming a composite bronze gear ring. 3,156,589, 11–10–64, Cl. 148—3.

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Klemm, Edwin O., and R. A. Colwell, to Saginaw Products Corp. Brake means for steerable running gear assembly. 3,134,461, 5–26–64, Cl. 188—119.

Klemm, Herman G., and A. H. Mark, to Massey-Ferguson Ltd. Threshing cylinder construction. 3,122,144, 2–25–64, Cl. 130—27.

Klemm, Herman G., and A. H. Mark, to Massey-Ferguson Ltd. Threshing cylinder construction. 3,127,898, 4–7–64, Cl. 130—27.

Klemm, Herman G., D. S. Horne, R. Ashton, and L. L. Kepkay, to Massey-Ferguson Ltd. Grain tank and conveyor assembly for combines. 3,152,702, 10–13–64, Cl. 214—17.

Klemm, Julius R., to Dowst Mfg. Co. Switch-rheostat. 3,123,792, 3–3–64, Cl. 338—100.

Klemm, William A.: *See*—
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Klemmetsen, Harald G., ½ to Bertram Wahl. Liquid volume measuring arrangement. 3,153,931, 10–27–64, Cl. 73—299.

Klemperer, Hans, to Refractory & Insulation Corp. Means for clearing short circuits in electrical precipitators. 3,149,938, 9–22–64, Cl. 55—139.

Klencke, Siegfried. Apparatus for freeze concentration. 3,158,004, 11–24–64, Cl. 62—124.

Klendauer, Wolfgang, and J. Voss, to Kalle Aktiengesellschaft. Polymerizable composition comprising unsaturated cellulose ether and process of preparing same. 3,143,516, 8–4–64, Cl. 260—17.

Klenk, Hans, to Continental Gummi-Werke Aktiengesellschaft. Tread structure for pneumatic vehicle tires. 3,155,135, 11–3–64, Cl. 152—353.

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Klepfer, Harold H., and M. E. Snyder, to General Electric Co. Nuclear fuel elements and manufacturing method. 3,141,830, 7–21–64, Cl. 176—68.

Kleppe, Herbert C., to American Trailer & Mfg. Co. Boat trailer loading and supporting device. 3,117,683, 1–14–64, Cl. 214—84.

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Klima, George J. Apparatus for removing and replacing heat exchanger tube assemblies. 3,125,800, 3–24–64, Cl. 29—202.

Kliman, Ivan M., to Sperry Rand Corp. Information transformation system. 3,147,474, 9–1–64, Cl. 340—347.

Klimkowski, Robert J., and R. E. Flory, to Eugene Dietzgen Co. Complex salt diazotype photoprinting materials. 3,153,592, 10–20–64, Cl. 96—49.

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Klingler, Karl A. Journal stop for railroad car axle journal box. 3,121,595, 2–18–64, Cl. 308—41.
Klingman, Sanford, to United States of America, Navy. Pressure operated valve means. 3,139,108, 6–30–64, Cl. 137—512.1.
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Klingsberg, Erwin, to American Cyanamid Co. Benzo-1,2-dithiolium compounds. 3,141,891, 7–21–64, Cl. 260—327.
Klingsberg, Erwin, to American Cyanamid Co. Process for 1,3-dithiolium dyestuffs and intermediates therefor. 3,155,-682, 11–3–64, Cl. 260—327.
Klingsberg, Erwin, to American Cyamid Co. Pyrazole compounds and process therefor. 3,158,620, 11–24–64, Cl. 260—310.
Klingsberg, Erwin, to American Cyamid Co. Dithiolium compounds and their preparation. 3,158,621, 11–24–64, Cl. 260—327.
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Knoll Associates, Inc.: *See*—
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Knoll, David, and H. Rosenzweig. Shipping document jacket with protective identification cover. 3,155,234, 11–3–64, Cl. 206—47.
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Womer, Clyde M. 3,162,882.
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Knop, James C., to The Fulton Co. Chain hook assemblage. 3,144,748, 8–18–64, Cl. 59—88.
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Knorr, Roland: *See*—
Jakob, Franz, and Knorr. 3,139,804.
Knorr, Roland, U. W. Auer, and F. Hennig, to Agfa Aktiengesellschaft. Automatic camera controls. 3,122,979, 3–3–64, Cl. 95—10.
Knorr, Roland, G. Kiper, and F. Fackler, to Agfa Aktiengesellschaft. Photographic flash synchronizing assembly. 3,162,108, 12–22–64, Cl. 95—11.5.
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Knoth, Walter H., Jr., to E. I. du Pont de Nemours and Co. Ammonia and hydrazine salts of the $B_{10}H_{10}^{-2}$ anion. 3,148,938, 9–15–64, Cl. 23—14.
Knoth, Walter H., Jr., to E. I. du Pont de Nemours and Co. Hydrates, metal salts and hydrated metal salts of acid $H_2B_{10}H_{10}$. 3,148,939, 9–15–64, Cl. 23—14.
Knoth, Walter H., Jr., to E. I. du Pont de Nemours and Co. Amine and organo-substituted hydrazine salts of the $B_{10}H_{10}^{-2}$ anion and process for preparing same. 3,149,163, 9–15–64, Cl. 260—583.
Knothe, Werner E. O., to Commonwealth Scientific and Industrial Research Organization. Apparatus for transferring fibrous material. 3,134,482, 5–26–64, Cl. 198—178.
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Milas, Raymond J., and Knotowicz. 3,118,138.
Knott, Charles W., to T. P. Hart, and N. M. Shalhoob, Jr. Fish catcher. 3,162,969, 12–29–64, Cl. 43—15.
Knott, Sydney T., and W. E. Witzell, to United States of America, Navy. Lightweight towed transducer housing. 3,144,848, 8–18–64, Cl. 114—235.
Knowles, Carl H., C. G. Tinsley, and R. W. Helda, to Motorola, Inc. Comprehensive testing system. 3,142,382, 7–28–64, Cl. 209—75.
Knowles, Dennis H., L. S. Tyma, Jr., and F. J. Doyle, to Miehle-Goss-Dexter, Inc. Ink fountain. 3,163,111, 12–29–64, Cl. 101—350.
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Cole, Edward L., and Knowles. 3,158,567.
Krug, Robert H., Tierney, Knowles, and Kay. 3,125,527.
McCoy, Frederic C., Knowles, and Hess. 3,152,917.
Knowles, Edwin C., E. L. Kay, and K. L. Dille, to Texaco Inc. Anti-stalling motor fuel. 3,118,745, 1–21–64, Cl. 44—72.
Knowles, Edwin C., F. C. McCoy, and H. V. Hess, to Texaco Inc. Method of preparing finely-divided material. 3,125,501, 3–17–64, Cl. 208—25.
Knowles, Edwin C., and W. M. Sweeney, to Texaco Inc. Super-polyester lubricant composition. 3,162,602, 12–22–64, Cl. 252—47.
Knowles, George F., to Coors Porcelain Co. Rotary can domer and trimmer. 3,130,698, 4–28–64, Cl. 113—7.
Knowles, James, to Ford Motor Co. Hydrokinetic stator and means for braking the same. 3,149,467, 9–22–64, Cl. 60—54.
Knowles, James, and T. R. Stockton, to Ford Motor Co. Engine and hydrokinetic power transmission assembly. 3,161,015, 12–15–64, Cl. 60—12.
Knowles, Richard G., to Vasco Industries Corp. Apparatus for molding hollow articles. 3,134,140, 5–26–64, Cl. 18—26.
Knowles, William L., to T-Board Machinery Co., Inc. Piston stroke adjustment. 3,142,185, 7–28–64, Cl. 74—25.
Knowlton, David R., to United-Carr Inc. Webbing clip application. 3,138,197, 6–23–64, Cl. 160—383.
Knowlton, David R., to United-Carr Inc. Molding fastener. 3,145,439, 8–25–64, Cl. 24—73.
Knowlton, Edward A., to United-Carr Fastener Corp. Method of applying a sealing member to a predetermined part. 3,121,129, 2–11–64, Cl. 264—45.
Knox, Austin A., to Audio Devices, Inc. Endless recorder tape cartridge. 3,126,163, 3–24–64, Cl. 242—55.19.
Knox, Donald G. Free piston well pump device. 3,150,596, 9–29–64, Cl. 103—52.
Knox, Edward E.: *See*—
Stack, Vernon T., and Knox. Re. 25,584.
Knox, Granville S., to Hydril Co. Wide temperature range sealing structure. 3,149,845, 9–22–64, Cl. 277—26.
Knox, Harold W., to The Firestone Tire & Rubber Co. Method of manufacturing a mold. 3,121,947, 2–25–64, Cl. 29—447.
Knox, Harold W., to The Firestone Tire & Rubber Co. Tire. 3,143,155, 8–4–64, Cl. 152—330.
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Knox, John A., A. B. Featherston, and R. M. Lasater, to Halliburton Co. Treating of wells. 3,125,518, 3–17–64, Cl. 252—8.55.
Knox, Lawrence H.: *See*—
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Knox, Robert V.: *See*—
Fischer, John J., and Knox. 3,147,626.
Knox, Roger E., to E. I. du Pont de Nemours and Co. Resilient composite polyurethane structures. 3,133,853, 5–19–64, Cl. 167—47.
Knox, Walter R., to Monsanto Co. Preparation of a catalyst comprising iron selenide dispersed on a porous support. 3,147,231, 9–1–64, Cl. 252—439.
Knox-Seith, John, to Bell Telephone Laboratories, Inc. Magnetic control circuits. 3,123,718, 3–3–64, Cl. 307—88.
Knudsen, Borge I., and H. S. Rolskov, to Kemisk Vaerk Koge A/S. Delta copper phthalocyanine pigment and its preparation. 3,160,635, 12–8–64, Cl. 260—314.5.
Knudsen, Irving E., A. A. Jonke, and N. M. Levitz, to United States of America, Atomic Energy Commission. Preparation of dense uranium dioxide particles. 3,160,471, 12–8–64, Cl. 23—14.5.
Knudsen, John P., to Monsanto Chemical Co. Manufacture of shaped objects of acrylonitrile polymer by wet spinning. 3,124,629, 3–10–64, Cl. 264—182.
Knudsen, Knud J., to Lewis Engineering Co. Thermocouple pyrometer and associated potentiometer circuit. 3,156,118, 11–10–64, Cl. 73—360.
Knudson, Giltner J., to The Bendix Corp. Fuel injection pump. 3,146,715, 9–1–64, Cl. 103—2.
Knudson, Russell A., and N. D. Bailey. Means for cleaning dairy barn vacuum lines. 3,162,427, 12–22–64, Cl. 259—4.
Knudson, William L. Dental patients reclining chair. 3,150,898, 9–29–64, Cl. 297—329.
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Knusli, Enrico, W. Stammbach, and H. Gysin, to J. R. Geigy, A.-G. Method for the preparation of 2,4-diamino-6-fluoro-s-triazines. 3,122,542, 2–25–64, Cl. 260—249.8.
Knusli, Enrico, W. Schappi, and D. Berrer, to J. R. Geigy, A.-G. Manufacture of herbicidal derivatives of 2-mercapto-4,6-bis-amino-s-triazine. 3,145,208, 8–18–64, Cl. 260—249.8.
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Clayton, William H., Jr., and Knust. 3,155,077.
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Knutsen, Herbert K.: *See*—
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Knutson, Carl L.: *See*—
Hoyt, Robert L., and Knutson. 3,128,820.
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Knutson, Leonard J.: *See*—
Lobash, Floyd, Straub, and Knutson. 3,160,070.
Knutson, Kermit B. Dispenser for liner-wound adhesive tape. 3,136,462, 6–9–64, Cl. 225—24.
Knutson, Norris O.: *See*—
Parker, Warren H. 3,143,809.
Knutson, Oliver J., A. E. Graber, and W. H. Wandell, Jr., to The Vicon Instrument Co. Noise suppressing filter for microphone. 3,154,171, 10–27–64, Cl. 181—31.
Knutson, Roy G., and J. C. Elms, to North American Aviation, Inc. Conical scanning radar data processing system. 3,126,542, 3–24–64, Cl. 343—16.
Knutsson, Arne. Seed starter device. 3,125,830, 3–24–64, Cl. 47—37.
Knutti, Helmut, to C. Zeiss. Tele-photo lens. 3,134,841, 5–26–64, Cl. 88—57.
Knuvers, Gerardus P.: *See*—
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Knuz, Charles J., to Eastman Kodak Co. Roller drive system. 3,132,785, 5–12–64, Cl. 226—108.
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Hara, Takeshi, Koaze, Yamada, and Kojima. 3,135,-666.
Kob, Elisabeth : *See*—
Meis, Helmut, and Kob. 3,133,895.
Kobayashi, Hidehiko : *See*—
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Kobayashi, Shinjiro, to Maruman Co. Ltd. Liquid gas fueled lighter. 3,149,484, 9–22–64, Cl. 67—7.1.
Kobayashi, Tatsuo, to Minolta Camera Co. Ltd. Automatic shutter mechanism. 3,126,801, 3–31–64, Cl. 95—10.
Kobayashi, Toshio : *See*—
Watanabe, Seiichiro, Kobayashi, and Shoji. 3,124,527.
Kobayashi, Yuji, N. Fukuma, and A. Fitaoka, to Asahi Kasei Kogyo Kabushiki Kaisha. Process for improving processability of high molecular weight polypropylene. 3,154,529, 10–27–64, Cly. 260—93.7.
Kobbe, John R., and O. C. Svehaug, to Tektronix, Inc. Time base generator. 3,122,652, 2–25–64, Cl. 307—88.5.
Kobbeman, Donald D. : *See*—
McSpadden, Hugh J., and Kobbeman. 3,138,927.
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Goto, Asahiko. 3,148,953.
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Ottmann, Gerhard F., Hooks, Kober, Rätz, and Ristich. 3,136,754.
Kober, Kenneth B. : *See*—
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Kober, Walter, to Metallhuttenwerke Lubeck G.m.b.H. Apparatus for the biological treatment of waste waters. 3,133,878, 5–19–64, Cl. 210—220.
Kober, William, to L. R. Power Corp. Dynamoelectric machine. 3,121,814, 2–18–64, Cl. 310—156.
Koberloy, Inc. : *See*—
Kobernick, Gerald. 3,139,180.
Kobernick, Gerald. 3,139,181.
Kobernick, Gerald, to Koberloy, Inc. Container of dental alloy. 3,139,180, 6–30–64, Cl. 206—47.
Kobernick, Gerald, to Koberloy, Inc. Container of dental alloy. 3,139,181, 6–30–64, Cl. 206—63.5.
Kobetz, Paul : *See*—
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Kobetz, Paul, to Ethyl Corp. Chromium and tin tetraalkylboron compounds and preparation thereof. 3,134,796, 5–26–64, Cl. 260—429.7.
Koble, Robert A. : *See*—
Bice, William O., and Koble. 3,152,986.
Ford, Harold L., Owen, Koble, and Goard. 3,156,525.
Kobler, Arnold J. Contact lens applicator. 3,129,971, 4–21–64, Cl. 294—64.
Kobler, Kurt : *See*—
Kobler, Werner and K. 3,135,262.
Kobler, Paul. Skin stretchers for shavers. 3,127,675, 4–7–64, Cl. 30—34.
Kobler, Richard, to McGraw-Edison Co. Decode-encode system for teaching machines. 3,128,563, 4–14–64, Cl. 35—6.
Kobler, Richard, to McGraw-Edison Co. Automatic repertory telephone dialing machine. 3,156,782, 11–10–64, Cl. 179—90.
Kobler, Victor, and W. Dry shovers having shearheads arranged at different levels. 3,136,055, 6–9–64, Cl. 30—43.
Kobler, Werner : *See*—
Kobler, Victor, and W. 3,136,055.
Kobler, Werner and K. Tampon. 3,135,262, 6–2–64, Cl. 128—285.
Koblish, Arthur M. : *See*—
Scholtz, Arthur P., and Koblish. 3,148,648.
Kobryner, Herman H., to Murray Mfg. Corp. Plug-in meter socket. 3,131,984, 5–5–64, Cl. 339—31.
Kobryner, Herman H., to Murray Mfg. Corp. Polyphase meter mount. 3,134,931, 5–26–64, Cl. 317—104.
Koby, Walter A. Necktie retaining means. 3,116,525, 1–7–64, Cl. 24—49.
Kobylanski, Anthony J., and P. E. Fontaine, to FMC Corp. Automatic strapping machine. 3,126,686, 3–31–64, Cl. 53—198.
Koch, Charles R., to Crawford Mfg. Co., Inc. Adjustable footrest or hassock. 3,163,468, 12–29–64, Cl. 297—439.
Koch, Earl E., to Sperry Rand Corp. Ratchet drive safety release. 3,127,778, 4–7–64, Cl. 74—116.
Koch, Edgar F. : *See*—
Webb, James E. 3,123,248.
Koch, Ernst, R. O. Benz, and N. Jochum, to Rohm & Haas G.m.b.H. Lubricating oil additives. 3,163,605, 12–29–64, Cl. 252—51.5.
Koch, Friedrich, and K. Sailer, to Maybach-Motorenbau G.m.b.H. Universal joint. 3,119,246, 1–28–64, Cl. 64—17.
Koch, Fritz : *See*—
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Gaylord, John A. 3,133,329.
Koch, William L. 3,131,542.
Koch, Hans-Joachim, ½ to Farbenfabriken Bayer Aktiengesellschaft and ½ to Mobay Chemical Co. Recovery of amines. 3,128,310, 4–7–64, Cl. 260—582.
Koch, Jakob. Dynamic sealing means for rotary regenerative heat exchangers. 3,122,200, 2–25–64, Cl. 165—9.
Koch, John H., Jr., to Engelhard Industries, Inc. Process for producing a stable alumina monohydrate. 3,152,865, 10–13–64, Cl. 23—143.
Koch, Joseph H. : *See*—
Godwin, Homer A., Brockardt, and Koch. 3,159,123.
Koch, Karl : *See*—
Maurer, Waldemar, Koch, and Eisinger. 3,146,712.
Koch, Konrad : *See*—
Englisch, Alfred, Koch, Zimmermann, and Raiser. 3,162,-644.
Koch, Maurice P. Latching assembly. 3,125,367, 3–17–64, Cl. 292—247.
Koch, Maurice P. Vent for receptacles. 3,133,664, 5–19–64, Cl. 220—44.
Koch, Otto : *See*—
Binder, Hans, Koch, and Altpeter. 3,149,116.
Blaser, Bruno, Stein, Weiss, and Koch. 3,158,632.
Wulff, Carl, Stein, Koch, and Weiss. 3,142,691.
Koch, Paul H., to The Babcock & Wilcox Co. Forced flow vapor generating unit. 3,125,995, 3–24–64, Cl. 122—406.
Koch, Paul H., to The Babcock & Wilcox Co. Method of regulating vapor temperature. 3,139,869, 7–7–64, Cl. 122—479.
Koch, Robert B., to Minneapolis-Honeywell Regulator Co. Condition responsive devices. 3,122,921, 3–3–64, Cl. 73—358.
Koch, Robert L., to Socony Mobil Oil Co., Ltd. Recovery of hydrocarbon material by in-situ combustion. 3,130,781, 4–28–64, Cl. 166—11.
Koch, Ronney R. : *See*—
Ramos, Joseph, McLaughlin, and Koch. 3,157,232.
Koch, Samuel J., and C. Ehrlich, to Amprobe Instrument Corp. Electrical measuring and recording instruments. 3,140,144, 7–7–64, Cl. 346—17.
Koch, Stanley R. : *See*—
Carney, Richard R., and Koch. 3,123,981.
Koch, Walter, to Dravo Corp. Method of processing sewage sludge. 3,156,198, 11–10–64, Cl. 110—7.
Koch, Walter T., and G. R. Stimmel, to FMC Corp. Method of coating film with a vinylidene chloride copolymer blend. 3,144,425, 8–11–64, Cl. 260—29.6.
Koch, Werner, to Roland Offsetmaschinenfabrik Faber & Schleicher AG. Multicolor sheet fed printing machine. 3,140,657, 7–14–64, Cl. 101—183.
Koch, Werner, and S. Schuhmann, to Roland Offsetmaschinenfabrik Faber & Schleicher AG. Clamping device for clamping printing plates of printing machine. 3,119,331, 1–28–64, Cl. 101—415.1.
Koch, William L., to H. Koch & Sons. Stabilizer for a floating dock. 3,131,542, 5–5–64, Cl. 61—48.
Kochalski, Horst, to Hauni-Werke Korber & Co. K.G. Rotary suction conveyor. 3,139,972, 7–7–64, Cl. 198—211.
Kochanowski, George A., to Kinkead Industries Inc. Valance rod assembly. 3,137,890, 6–23–64, Cl. 16—87.2.
Kochar, Raj. Shaping and slotting machines. 3,146,677, 9–1–64, Cl. 90—40.
Kocher, Erich J., to Vilter Mfg. Corp. Defrosting of refrigeration systems. 3,126,715, 3–31–64, Cl. 62—151.
Kocher, Erich J., to Vilter Mfg. Corp. Liquid cooler with air agitation. 3,131,550, 5–5–64, Cl. 62—275.
Kocher, Erich J., to Vilter Mfg. Corp. Art of conserving lubricant in gas compressors. 3,131,855, 5–5–64, Cl. 230—206.
Kocher, Hans-Heinrich : *See*—
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Kocher, John C. Radar isoecho contour sensitivity gate. 3,149,332, 9–15–64, Cl. 343—17.1.
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Kochey, Edward L., Jr., to Combustion Engineering, Inc. Twin furnace unit and method of operation. 3,135,246, 6–2–64, Cl. 122—240.
Kochi, Jay K. : *See*—
De La Mare, Harold E., Kochi, and Rust. 3,140,303.
Kochis, John. Line twisting and untwisting attachment. 3,145,498, 8–25–64, Cl. 43—43.13.
Koci, Jerry C., to Chicago Dynamic Industries, Inc. Switch for establishing a multiplicity of electric circuits. 3,132,-217, 5–5–64, Cl. 200—15.
Koci, Jerry C., and S. M. Heide, to Chicago Dynamic Industries, Inc. Thumbwheel switch having illuminated indicia-bearing facings. 3,140,377, 7–7–64, Cl. 200—167.
Koci, Ludvik J. : *See*—
Jepson, Ivar, Koci, Ottosen, and Wickenberg. 3,145,645.
Koci, Ludvik J., to Sunbeam Corp. Snap-acting thermostat. 3,130,585, 4–28–64, Cl. 73—378.3.
Koci, Ludvik J., to Sunbeam Corp. Electric motor control. 3,163,252, 12–29–64, Cl. 180—65.

Kock, Winston E., to The Bendix Corp. Method and apparatus for obtaining directional locating and detecting characteristics with reduced antenna size. 3,154,778, 10–27–64, Cl. 343—5.

Kocks, Friedrich. Charging device for smelting furnaces. 3,116,841, 1–7–64, Cl. 214—31.

Kocks, Hubert, to Hamel Zwirnerei- und Spinnereimaschinen G.m.b.H. Plural-spool spindle. 3,119,224, 1–28–64, Cl. 57—58.52.

Kodama, Yutaka, I. Saikawa, A. Takai, and M. Haseda, to Toyama Kagaku Kogyo Kabushiki Kaisha. Alcoholates of 3-amino-6-substituted-1,2,4-triazine compounds. 3,151,110, 9–29–64, Cl. 260—240.

Kodama, Yutaka, I. Saikawa, and M. Kanamori, to Toyama Kagaku Kogyo Kabushiki Kaisha. 3-acylamino-6-substituted-1,2,4-triazine compounds. 3,153,648, 10–20–64, Cl. 260—240.

Kodama, Yutaka, I. Saikawa, T. Maeda, and A. Taki, to Toyama Kagaku Kogyo Kabushiki Kaisha. Process for producing 3-amino-6-substituted and 5,6-substituted 1,2,4-triazine compounds. 3,153,649, 10–20–64, Cl. 260—240.

Kodama, Yutaka, I. Saikawa, and T. Maeda, to Toyama Kagaku Kogyo Kabushiki Kaisha. Substituted pyruvic acid esters and 3-amino-5-hydroxy-6-(substituted ethenyl)-1,2,4-triazines prepared therefrom. 3,159,624, 12–1–64, Cl. 260—240.

Kodama, Yutaka, I. Saikawa, T. Maeda, A. Takai, and I. Takamichi, to Toyama Kagku Kogyo Kbushiki Kaisha. 3-amino-6-substituted 1,2,4-triazine compounds. 3,159,625, 12–1–64, Cl. 260—240.

Kodey, Cyrill F., Jr., to Bell Telephone Laboratories, Inc. Device for assembling needle points in cups. 3,159,128, 12–1–64, Cl. 113—129.

Kody, Joseph D., to Imperial-Eastman Corp. Rotationally adjustable fitting. 3,151,896, 10–6–64, Cl. 285—212.

Koe, Billie K., to Chas. Pfizer & Co., Inc. Novel derivatives of 6-aminopenicillanic acid. 3,144,444, 8–11–64, Cl. 260—239.1.

Koebel, Charles J., to Koebel Diamond Tool Co. Multiple point diamond tool. 3,154,064, 10–27–64, Cl. 125—39.

Koebel Diamond Tool Co.: *See*—
Emery, Harold L. 3,157,174.
Koebel, Charles J. 3,154,064.

Koebel, Karl: *See*—
Müller, Hans, and Koebel. 3,140,314.

Koecher, Alfred: *See*—
Petereit, Lothar, and Koecher. 3,152,494.

Koehler Aircraft Products Co.: *See*—
Combs, John E. 3,118,349.
LaFontaine, Raymond H. 3,141,470.

Koehler, Joseph G.: *See*—
Conover, George W., Hulsing, and Koehler. 3,145,695.

Koehler, Karl. Foldable postal card. 3,141,549, 7–21–64, Cl. 206—42.

Koehler, Raymond V., to American Motors Corp. Fuel tank filler tube and drain. 3,159,409, 12–1–64, Cl. 280—5.

Koehler, Richard J., to Westinghouse Electric Corp. Inflated antenna. 3,125,758, 3–17–64, Cl. 343—872.

Koehn, Helmut: *See*—
Matsch, Ladislas C., Yendall, Lauer, and Koehn. 3,119,676.
Matsch, Ladislas C., Yendall, Lauer, and Koehn. 3,141,-751.

Koehn, Helmut, L. J. La Plante, R. L. Shaner, and R. F. Stengel, to Union Carbide Corp. Process and apparatus for liquefying low-boiling gases. 3,144,316, 8–11–64, Cl. 62—9.

Koehn, Wilbur R. Anesthesizing apparatus. 3,128,764, 4–14–64, Cl. 128—188.

Koehn, William A., to Clary Corp. Printer. 3,139,818, 7–7–64, Cl. 101—93.

Koehring Co.: *See*—
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Kohler, Fred, to American Machine & Foundry Co. Automatic temperature control for welding apparatus. 3,145,-285, 8–18–64, Cl. 219—59.
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Kohlhagen, Walter. Self-starting rotors for synchronous reaction motors. 3,149,256, 9–15–64, Cl. 310—156.
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Komarek, Gustav and K. R. 3,143,769.
Komarek, Gustav and K. R., to Komarek-Greaves and Co. Briquetting roll pockets. 3,143,769, 8–11–64, Cl. 18—21.
Komarek, Karl R.: *See*—
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Komarek, Karl R., to Komarek-Greaves and Co. Briquetting press. 3,134,156, 5–26–64, Cl. 25—77.
Komarik, Stephan L., to The Griffith Laboratories, Inc. Method of improving the tenderness of meat and composition therefor. 3,147,123, 9–1–64, Cl. 99—107.
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Komatar, Frederick A., to The Gamewell Co. High-speed counter. 3,125,291, 3–17–64, Cl. 235—132.
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Komatsu, Takashi, R. Iwanaga, and J. Kato, to Ajinomoto Co., Inc. Process for producing α-hydroxybutyronitrile and -butyrolactone. 3,141,895, 7–21–64, Cl. 260—343.6.
Komenda, Erwin, to Porsche, Dr. Ing. h. c. f., KG., Firma. Backrest construction. 3,123,401, 3–3–64, Cl. 297—379.
Komeno, Taichiro, to Shionogi & Co., Ltd. 2′-substituted thiazolo 5′,4′-16,17 steroid of androstane series. 3,119,916, 1–28–64, Cl. 260—239.5.
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Komeno, Taichiro, and J. Kawanami, to Shionogi & Co., Ltd. 11,12-epithiosteroid of pregnane series. 3,160,627, 12–8–64, Cl. 260—239.5.
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Kompelien, Arlon D., to Minneapolis-Honeywell Regulator Co. Transceiver selective call system utilizing tuned reed filters. 3,138,755, 6–23–64, Cl. 325—18.
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Konecky, Milton S., and E. J. Inchalik, to Esso Research and Engineering Co. Aromatization process. 3,153,101, 10–13–64, Cl. 260—668.
Koncen, Raymond E. Solid state modulator for phototransistors. 3,157,843, 11–17–64, Cl. 332—31.
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Kondo, Heisaburo, and S. Ohno. Method of synthesis of bufalin. 3,134,772, 5–26–64, Cl. 260—239.57.
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Kongelbeck, Sverre, to United States of America, Navy. Retractable missile shoes. 3,153,980, 10–27–64, Cl. 89—1.7.
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Koniewiez, Paul (now by change of name P. Korwin), and G. R. James, to Chemical Construction Corp. Upright fluid heating furnace with heat recovery system. 3,119,671, 1–28–64, Cl. 23—277.
Koniewiez, Paul (now by change of name P. Korwin), and H. C. Morgenstern. Catalyst tube assembly. 3,127,248, 3–31–64, Cl. 23—288.
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König, Helmut F., and C. J. Stiefel, to Waggonfabrik Talbot. Tilting section hopper car. 3,161,148, 12–15–64, Cl. 105—262.
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Koninklijke Pharmaceutische Fabrieken v/h Brocades-Stneeman & Pharmacia, N.V.: *See*—
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Houben, Gerardus M. M., and Jonker. 3,124,463.
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Koniuszy, Frank R., E. A. Kaczka, R. A. Long, and R. A. Gray, to Merck & Co., Inc. Plant antiviral compositions and methods for preparing the same. 3,137,626, 6–16–64, Cl. 167—65.
Konkel, Joseph, to Amelex Corp. Paper-feed mechanism for printing machines, having improved means for tensioning and positioning paper. 3,147,900, 9–8–64, Cl. 226—111.
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Okada, Hiroshi, Takinami, Hirose, Tsunoda, and Kono. 3,138,540.
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Konrad, Richard. Attachable leaf collecting means for rotary lawn mower. 3,132,456, 5–12–64, Cl. 56—25.4.
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Kontani, Kiyoshi and Eiichi. Apparatus for painting, scale removing, traction and so on for massive bodies made of iron plates. 3,147,143, 9–1–64, Cl. 118—305.
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Koochembere, Chris T., to United States of America, Navy. Ejection seat face curtain restraint system. 3,158,344, 11–24–64, Cl. 244—122.
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Kools, Edward V., to Kools Brothers, Inc. Forage blower. 3,145,063, 8–18–64, Cl. 302—37.
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Koon, Charles L. Hot air circulator. 3,148,613, 9–15–64, Cl. 98—101.
Koon, William S., to United States of America, Army. Animal head restrainer. 3,153,399, 10–20–64, Cl. 119—96.
Koons, Charles W., to The New York Air Brake Co. Fluid distribution system. 3,162,095, 12–22–64, Cl. 91—414.
Koons, Emerson E., and J. Batz; said Koons, assor., to United States of America, Air Force. Pulse coincidence control of visual indications. 3,122,706, 2–25–64, Cl. 328—110.
Koons, Theodore R., and C. B. Pittinger, to The Black and Decker Mfg. Co. Hole saw. 3,162,067, 12–22–64, Cl. 77—69.
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Koonz, John C., and G. E. Gynn. Fishing lure. 3,122,853, 3–3–64, Cl. 43—42.24.
Koopmans, Martinus J.: *See*—
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Kopec, Mel, and B. Monsher. Nursing bottle holder. 3,161,392, 12–15–64, Cl. 248—104.
Kopec, Stanley J. Arbor for accurately supporting rotatable articles. 3,131,955, 5–5–64, Cl. 287—52.06.
Kopec, Stanley J. Grinding wheel dresser. 3,141,452, 7–21–64, Cl. 125—11.
Kopecký, Jiří, to Tesla, narodni podnik. Heating filament assembly and a method of preparing same. 3,134,691, 5–26–64, Cl. 117—215.
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Kopp, Herman. Individual divisional jar for coffee and other food products. 3,144,152, 8–11–64, Cl. 215—6.
Koppehele, Hugo P., to FMC Corp. Film extrusion apparatus. 3,117,342, 1–14–64, Cl. 18—12.
Koppehele, Hugo P., to FMC Corp. Method and apparatus for stretching beaded-edge films. 3,132,375, 5–12–64, Cl. 18—1.
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Koppelman, Edward, and A. R. Campman, to Raymond Development Industries, Inc. Methods of and apparatus for weaving shaped fabrics and articles woven thereby. 3,132,671, 5–12–64, Cl. 139—11.
Koppelman, Edward, and A. R. Campman, to Raymond Development Industries, Inc. Methods of and apparatus for weaving shaped fabrics and articles woven thereby. 3,139,117, 6–30–64, Cl. 139—20.
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Köppen, Heinz, to Zeiss Ikon Aktiengesellschaft. Photographic field lens with adjustable diaphragm. 3,133,489, 5–19–64, Cl. 95—64.
Köppen, Heinz, to Zeiss Ikon Aktiengesellschaft. Photographic cameras. 3,134,315, 5–26–64, Cl. 95—64.
Koppen, Heinz, and W. Gunther, to Zeiss Ikon Aktiengesellschaft. Photographic camera or shutter provided with an interchangeable objective. 3,129,647, 4–21–64, Cl. 95—10.
Köppen, Heinz, and W. Günther, to Zeiss Ikon Aktiengesellschaft. Photographic camera provided with an automatic flash exposure mechanism. 3,162,111, 12–22–64, Cl. 95—64.
Koppen, Otto C. Powerboat steering control. 3,143,995, 8–11–64, Cl. 115—37.
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Aamot, Olav C. 3,126,274.
Bolgiano, Nicholas C. 3,137,677.
Corson, Ben B., and Heintzelman. 3,137,682.
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Donath, Ernest E. 3,148,143.
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Goldstein, Irving S., and Dreher. 3,159,503.
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Goldstein, Irving S., and Oberley. 3,160,515.
Gort, William J. 3,160,925.
Guziak, Leonard F. 3,127,296.
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Harlow, Earl V. 3,119,804.
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Koppius, Otto G., to Semicon Associates, Inc. Tungsten dispenser cathodes and impregnants therefor. 3,118,080, 1–14–64, Cl. 313—337.
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De Gain, William J. 3,151,735.
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Kops, Israel. External cover for air conditioner units. 3,128,007, 4–7–64, Cl. 220—41.
Koral, Jerry N., to American Cyanamid Co. Polycrotonaldehyde. 3,163,622, 12–29–64, Cl. 260—67.
Koral, Jerry N., and B. W. R. Song, to American Cyanamid Co. Polymerization of acetaldehyde. 3,122,524, 2–25–64, Cl. 260—67.
Koralewski, Mitchell. Dual salt and pepper shaker. 3,154,220, 10–27–64, Cl. 222—142.4.
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Kordes, Heinrich, and E. Schwietert. Rail vehicle wheel with elastically supported rim. 3,127,211, 3–31–64, Cl. 295—11.
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Kore, Harry, Jr. Adjustably extensible automatically retracting hanger for purses and similar articles. 3,132,832, 5–12–64, Cl. 248—307.
Korenek, Jan, and K. Kulhanek, to Zavody V. I. Lenina Pizen, narodni podnik. Swivelling base lathe. 3,158,065, 11–24–64, Cl. 90—12.
Koretzky, Herman, and B. Leland, to International Business Machines Corp. Method of treating polyester polymer materials to improve their adhesion characteristics. 3,142,582, 7–28–64, Cl. 117—47.
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Korger, Gerhard, G. Nesemann, and J. König, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Brüning. Process for preparing 3-oxo-spiro-(cycloalkane-1',2-coumarans). 3,117,981, 1–14–64, Cl. 260—346.2.
Koriagin, Vsevolod B., to Lockheed Aircraft Corp. Aeroglide boat. 3,118,411, 1–21–64, Cl. 114—66.5.
Koril, Milo, to Bolkow-Entwicklungen Kommanditgesellschaft. Control device using gyroscope precession for measurement of displacement. 3,141,339, 7–21–64, Cl. 73—504.
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Kormer, Otto: *See*—
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Kornbluth, Allan E., and R. B. Riddell, to United States of America, Navy. Frequency stabilization circuit for a klystron oscillator. 3,135,929, 6–2–64, Cl. 331—178.
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Kornfeld, Melvin J.: *See*—
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Korones, Herbert D., and H. E. Rosenberger, to Bausch & Lomb Inc. Optical system for zoom type telescope having mirror and finder objectives. 3,152,214, 10–6–64, Cl. 88—57.
Korosh, Charles. Pedal-operated drum set. 3,125,921, 3–24–64, Cl. 84—422.
Korr, Abraham L. Vending machine with quickly removable dispensing unit. 3,135,425, 6–2–64, Cl. 221—282.

Korsgren, Theodore Y., Jr., to Haydon Switch & Instrument, Inc. Electrical connector. 3,155,448, 11–3–64, Cl. 339—201.
Kort, Roman, and B. E. Ruth, to Symons Mfg. Co. Tie rod and anchor bolt combination with external anchor point. 3,142,883, 8–4–64, Cl. 25—131.
Korte, Alfred C., to ACF Industries Inc. Fuel pump. 3,163,-354, 12–29–64, Cl. 230—172.
Korte, Alfred C., to ACF Industries, Inc. Fuel pump. 3,163,-355, 12–29–64, Cl. 230—188.
Korte, Friedrich W.A.G.K.: *See*—
Büchel, Karl H., Röchling, and Korte. 3,130,203.
Falbe, Jürgen F., and Korte. 3,159,637.
Falbe, Jürgen F., and Korte. 3,159,653.
Korthaus, Helmut, and R. Wilke. Electromotive adjusting device. 3,161,074, 12–15–64, Cl. 74—424.8.
Kortick, Morris, to Monarch Tool Co. Automatic ornament setting machine. 3,118,214, 1–21–64, Cl. 29—10.
Kortick, Morris, ½ to L. Yanoff. Semi-automatic ornament gluing machine. 3,140,972, 7–14–64, Cl. 156—566.
Kortlander, Ernest J.: *See*—
Strehan, George E., and Kortland. 3,145,811.
Kortsch, William E. Arm rests for dentists or the like. 3,124,328, 3–10–64, Cl. 248—118.
Korwin, Paul: *See*—
Koniewiez, Paul. 3,129,065.
Koniewiez, Paul, Korwin, and James. 3,119,671.
Koniewiez, Paul, Korwin, and Morgenstern. 3,127,248.
Korzaan, Peter D., to Utility Printing Co. Display package for elongated handled implements. 3,130,834, 4–28–64, Cl. 206—80.
Korzenowski, Anton: *See*—
Hansen, George E., and Korzenowski. 3,158,377.
Hansen, George E., Korzenowski, Stone, and Peterson. 3,150,681.
Kosak, John R., to E. I. du Pont de Nemours and Co. Process for the reduction of halo nitro aromatic compounds. 3,145,231, 8–18–64, Cl. 260—580.
Kosar, Jaromir, to Keuffel & Esser Co. Diazotype reproduction materials. 3,157,503, 11–17–64, Cl. 96—49.
Kosar, Peter, to Ajem Laboratories, Inc. Apparatus for ventilating chambers in power washers and the like. 3,157,107, 11–17–64, Cl. 98—115.
Koschoff, John, and S. Kernicki. Device for holding hooks in sewing machines. 3,151,585, 10–6–64, Cl. 112—107.
Kosco, John C., to Stackpole Carbon Co. Electrical contact. 3,158,469, 11–24–64, Cl. 75—134.
Koseki, Yasuo: *See*—
Oshima, Shintaro, Enomoto, Shirai, and Koseki. 3,146,-354.
Koshar, Robert J.: *See*—
Brown, Harvey A., and Koshar. 3,147,066.
Koshar, Robert J., and H. A. Brown, to Minnesota Mining and Mfg. Co. Quaternized halomethylamides. 3,147,065, 9–1–64, Cl. 8—116.2.
Koshin Seimitsu Kikai Kabushiki Kaisha: *See*—
Kurihara, Michio. 3,145,674.
Yamada, Kaichi. 3,143,094.
Koshiyama, Hideo: *See*—
Kawaguchi, Hiroshi, Koshiyama, and Okanishi. 3,159,-540.
Kawaguchi, Hiroshi, Okanishi, Miyaki, Ohmori, Matsuzaki, Koshiyama, and Tsukiura. 3,142,671.
Koshoot, Henry F., 40% to T. J. Parker. Bubble-plate chamber stepped still and the process for using such a still for alcohol or petroleum purification. 3,151,042, 9–29–64, Cl. 202—40.
Kosik, Joseph. Gate valve with particular seal means. 3,128,-078, 4–7–64, Cl. 251—214.
Kosik, Samuel J., Jr. Dispenser for rejuvenating wiper blades. 3,152,352, 10–13–64, Cl. 15—539.
Koski, Eino A., and H. A. Wilmeth, to Kennecott Copper Corp. Rope-suspended, skid-mounted movable belt conveyor. 3,161,282, 12–15–64, Cl. 198—192.
Koski, William L., and E. S. Swenson. Stomach pump apparatus. 3,142,298, 7–28–64, Cl. 128—276.
Kosoff, Harold. Free piston engine. 3,118,434, 1–21–64, Cl. 123—46.
Kosoff, Harold. Free piston engine system. 3,119,230, 1–28–64, Cl. 60—19.
Kosoff, Harold. Free piston engine. 3,127,881, 4–7–64, Cl. 123—46.
Kosoff, Harold. Mechanical apparatus. 3,129,878, 4–21–64, Cl. 230—56.
Kosoff, Harold. Free piston engine. 3,157,165, 11–17–64, Cl. 123—46.
Kosonocky, Walter F.: *See*—
Amodei, Juan J., and Kosonocky. 3,160,873.
Kosonocky, Walter F., and J. J. Amodei, to Radio Corp. of America. Electrical circuits. 3,156,816, 11–10–64, Cl. 235—172.
Kosrow, Robert L., to Union Special Machine Co. Automatic control of sewing machine and accessory devices. 3,116,705, 1–7–64, Cl. 112—2.
Kosrow, Robert L., to Union Special Machine Co. Method of lacing bundles of strands. 3,138.394, 6–23–64, Cl. 289—1.5.
Kosrow, Robert L., to Union Special Machine Co. Strand lacing implement. 3,150,892, 9–29–64, Cl. 289—17.
Koss, Darrell D. Punching and reinforcing machine. 3,132,-063, 5–5–64, Cl. 156—513.
Koss, William H., to McGill Mfg. Co., Inc. Sealed antifriction bearing. 3,140,129, 7–7–64, Cl. 308—187.2.
Kossar, Arnold F.: *See*—
Franklin, Wallace J., and Kossar. 3,150,731.
Kossmann, Hans, to Victor Comptometer Corp. Ink supply means for recording devices. 3,149,904, 9–22–64, Cl. 346—140.
Kost, Stephen J., to Formica Corp. Contact adhesive compositions. 3,144,428, 8–11–64, Cl. 260—43.
Kosta, Charles. Retractable holder for chalk, crayon, erasers, and small writing and cutting instruments. 3,124,106, 3–10–64, Cl. 120—1.
Koster, Claus, to Robert Bosch Gesellschaft mit beschrankter Haftung. Fuel injection pump for internal combustion engines. 3,161,138, 12–15–64, Cl. 103—41.
Koster, Hendrik J.: *See*—
Schuling, Wilhelmus C., Verkoren, and Koster. 3,159,200.
Kōster, Roland: *See*—
Ziegler, Karl, Kōster, and Kroll. 3,159,689.
Köster, Roland, to Studiengesellschaft Kohle m.b.H. Process for the production of N-trialkylborazanes. 3,125,603, 3–17–64, Cl. 260—583.
Koster, Roland, to Studiengesellschaft Kohle m.b.H. Process for the production of boron aryls. 3,129,249, 4–14–64, Cl. 260—606.5.
Koster, Roland, to K. Ziegler. Process for the production of alkali boron tetraalkyls. 3,163,679, 12–29–64, Cl. 260—606.5.
Köstler & Co.: *See*—
Blohm, Richard. 3,154,994.
Kotas, Donald E., to Minneapolis-Honeywell Regulator Co. Voltage to frequency transducer. 3,147,406, 9–1–64, Cl. 317—146.
Kothe, Heinz: *See*—
Gardenier, Karl-Josef, and Kothe. 3,146,242.
Kothe, Heinz, and K.-J. Gardenier, to Henkel & Cie. G.m.b.H. Process for the production of sultones. 3,117,133, 1–7–64, Cl. 260—327.
Kotler, William. Hospital beds. 3,147,494, 9–8–64, Cl. 5—81.
Kotoll, Sigmar: *See*—
Heupel, Friedrich, and Kotoll. 3,154,662.
Kott, Arthur, and R. M. Olson, to Corn Products Co. Compacting starch. 3,119,719, 1–28–64, Cl. 127—71.
Kottenhahn, Alfred P., to E. I. du Pont de Nemours and Co. Vanadium polymerization catalyst and process of polymerizing therewith. 3,154,528, 10–27–64, Cl. 260—80.7.
Kottenstette, James P.: *See*—
Gardner, John L., and Kottenstette. 3,154,159.
Kotter, James I.: *See*—
Lanigan, James P., Jr., Wallace, Kotter, and Salaun. 3,158.244.
Kottke, Roger H., and J. J. Engel, to Archer-Daniels-Midland Co. Gas cure of organic bonds for sand and abrasive granules. 3,145,438, 8–25–64, Cl. 22—193.
Kottler, August: *See*—
Seeger, Ernst, and Kottler. 3,127,407.
Seeger, Ernst, and Kottler. 3,133,967.
Kottsieper, Edward, to United Aircraft Corp. Mount support with torque indicator. 3,135,487, 6–2–64, Cl. 248—5.
Kotz, Arthur R., R. H. Appeldorn, E. W. Grieshaber, E. J. Peterson, and N. L. Giorgini, to Minnesota Mining and Mfg. Co. Thermographic copy machine wherein the infrared radiation source is a flash lamp with a capillary bore. 3,163,755, 12–29–64, Cl. 250—65.
Kotzin, Tobias. Waistband construction process. 3,126,551, 3–31–64, Cl. 2—236.
Kouba, Milo J. Bowling game device. 3,117,791, 1–14–64, Cl. 273—141.
Kouba, Norman R., to E. I. du Pont de Nemours and Co. Stabilization of formaldehyde solutions. 3,152,189, 10–6–64, Cl. 260—606.
Kough, Harry V.: *See*—
Cape, Arthur T., Zampieri, and Kough. 3,136,630.
Koukios, Serafim M.: *See*—
Hoop, Frederic R. 3,119,004.
Kousek, Gordon C.: *See*—
Mischel, Gordon J., and Kousek. 3,153 504.
Koutnik, Rodrick J., to Clary Corp. Shuttle valve. 3,151,-624, 10–6–64, Cl. 137—112.
Kouts, Herbert J. C.: *See*—
Chernick, Jack, Downes, Hastings, Hendrie, and Kouts. 3,143,478.
Koutz, Stanley L., R. B. Duffield, R. B. Minogue, H. P. Sleeper, Jr., and M. Frankel, to General Dynamics Corp. Neutronic reactor. 3,120,471, 2–4–64, Cl. 176—62.
Koutz, Stanley L., W. A. Kalk, and F. B. Nimtz, to United States of America, Atomic Energy Commission. Core reflector for nuclear reactor. 3,124,514, 3–10–64, Cl. 176—58.
Koutz, Stanley L., R. F. Turner, and P. Fortescue, to United States of America, Atomic Energy Commission. Fuel element for a neutronic reactor. 3,135,665, 6–2–64, Cl. 176—71.
Kovachy, Julius M. Process for cleaning stone. 3,150,007, 9–22–64, Cl. 134—4.
Kovacic, Joseph E., to The Dow Chemical Co. Process for making tetrabromohydroquinone. 3,143,576, 8–4–64, Cl. 260—623.
Kovacik, John M.: *See*—
Herzog, Josef, and Kovacik. 3,120,374.

Kovács, István, to Banyaszati Kutato Intezet. Loader, particularly for forewinning and room mining. 3,159,265, 12–1–64, Cl. 198—8.
Kovács, Theodor. Fountain pen. 3,134,363, 5–26–64, Cl. 120—45.6.
Koval, Leonide P., to General Electric Co. Electric circuit breaker. 3,158,716, 11–24–64, Cl. 200—116.
Kovalevski, Nicholas N., to Hewlett-Packard Co. High frequency voltmeter utilizing self-balancing loop. 3,142,799, 7–28–64, Cl. 324—99.
Koven, Marc. Clasp. 3,148,428, 9–15–64, Cl. 24—230.
Kover-Kar Inc.: *See*—
Corsetti, John A. 3,123,394.
Kowaleski, Clarence, and W. Pferd, to Bell Telephone Laboratories, Inc. Multiple conductor connector. 3,155,446, 11–3–64, Cl. 339—176.
Kowall, John T.: *See*—
Kraemer, Robert E., and Kowall. 3,157,238.
Kowalski, Slawomir, to Marotta Valve Corp. Enclosed spring construction. 3,147,961, 9–8–64, Cl. 267—1.
Kowalski, Slawomir, and D. A. Worden, to Marotta Valve Corp. Valve with feed back operation control. 3,160,168, 12–8–64, Cl. 137—112.
Kowalski, Walter, to McGraw-Edison Co. Electric disconnect switch. 3,161,735, 12–15–64, Cl. 200—48.
Kowalsky, John B.: *See*—
Bevan, Robert K., Cloud, and Kowalsky. 3,150,375.
Kowalyshyn, Stephen, to United States of America, Navy. Method and apparatus for self noise tests for submerged vehicles. 3,156,208, 11–10–64, Cl. 114—25.
Kowanda, Josef. Theft alarm for motor vehicles. 3,160,868, 12–8–64, Cl. 340—261.
Kownurko, Leonard I.: *See*—
Trupp, Herman A., and Kownurko. 3,124,968.
Kownurko, Leonard I., and R. H. Brill, to Philco Corp. Laundry apparatus. 3,148,523, 9–15–64, Cl. 68—12.
Kowynia, Mitchell J. Automatic sampling system. 3,156,-120, 11–10–64, Cl. 73—421.
Koyanagi, Reinosuke, to Tokyo-Shibaura Denki Kabushiki Kaisha. Apparatus for preventing overheating of engine of vehicle equipped with air-conditioning system. 3,121,314, 2–18–64, Cl. 62—133.
Koza, Stanley H., to General Electric Co. Electrical apparatus and method of making same. 3,156,885, 11–10–64, Cl. 336—197.
Kozacka, Frederick J., to The Chase-Shawmut Co. Time lag fuses of the blade contact type. 3,123,693, 3–3–64, Cl. 200—120.
Kozacka, Frederick J., to The Chase-Shawmut Co. High current-carrying-capacity cartridge fuses with minimized losses. 3,123,694, 3–3–64, Cl. 200—120.
Kozacka, Frederick J., to The Chase-Shawmut Co. Springless time-lag fuses for motor circuits. 3,143,615, 8–4–64, Cl. 200—120.
Kozacka, Frederick J., to The Chase-Shawmut Co. Blade-type electric fuses. 3,152,233, 10–6–64, Cl. 200—120.
Kozak, Edward: *See*—
De Penti, Kenneth L., Kozak, and Wyrough. 3,125,965.
Kozak, Edward, and A. R. Stevens, to National Castings Co. Cargo tie-down apparatus. 3,140,671, 7–14–64, Cl. 105—366.
Kozak, Hiram C.: *See*—
Ostrowski, Edward J., Kozak, and Putnam. 3,159,432.
Kozel, James A., to The Horton Co. Mixing valve for automatic washing machine. 3,135,280, 6–2–64, Cl. 137—99.
Kozel, James A., and C. E. Lyall, to The Horton Co. Fluid control system for washing machines. 3,122,010, 2–25–64, Cl. 68—23.
Koziak, Roman, to Tesla, narodni podnik. Electron gun for generating a hollow beam. 3,130,340, 4–21–64, Cl. 313—82.
Kozicki, Henry J.: *See*—
Beisel, Donald H., and Kozicki. 3,125,896.
Kozicki, Henry J., to Ford Motor Co. Vehicle driveline construction. 3,150,737, 9–29–64, Cl. 180—70.
Kozicki, Henry J., to Ford Motor Co. Motor vehicle road wheel suspension. 3,157,242, 11–17–64, Cl. 180—73.
Kozicki, Henry J., and C. P. Wenzel, to Ford Motor Co. Vehicle wheel suspension. 3,150,868, 9–29–64, Cl. 267—52.
Kozien, Frank, A. F. Smith, J. A. Thompsen, and R. F. Allen, to United States of America, Air Force. Patching panels for electrical interconnections. 3,146,050, 8–25–64, Cl. 339—18.
Kozlowski, Edward C., to The Warner Brothers Co. Box and closure therefor. 3,125,277, 3–17–64, Cl. 229—27.
Koznarski, Frank R. Method of and apparatus for trolling. 3,149,419, 9–22–64, Cl. 33—126.
Kozuch, Stanley J.: *See*—
Daugherty, Ralph K., Smith, and Kozuch. 3,135,049.
Krabbe, Erik: *See*—
Wendt, Kenneth W., and Krabbe. 3,123,475.
Krach, Clyde N.: *See*—
Weissensee, Gunther G., and Krach. 3,123,955.
Kracht, Gerhart, to Koppers Co., Inc. Apparatus for producing flexible styrene polymers. 3,119,147, 1–28–64, Cl. 18—1.
Kracht, Otto, to Kracht Pumpen- und Motorenfabrik K.G. Device for the automatic control of the volume of the air cushion in the pressure tank of water supply systems. 3,163,114, 12–29–64, Cl. 103—6.
Kracht Pumpen- und Motorenfabrik K.G.: *See*—
Kracht, Otto. 3,163,114.
Krack, William G.: *See*—
Gleason, Frederick C., Krack, and Soukup. 3,118,218.
Kracklauer, Aloysius C., to C.I.T. Corp. Plate filter and method of manufacture. 3,142,642, 7–28–64, Cl. 210—232.
Kraemer, Asger, to Danfoss ved ingenior Mads Clausen. Electric contact device. 3,153,709, 10–20–64, Cl. 200—84.
Kraemer, Karl. Transmission assembly. 3,130,607, 4–28–64, Cl. 74—765.
Kraemer, Robert E., and J. T. Kowall, to Ford Motor Co. Independent bogie suspension. 3,157,238, 11–17–64, Cl. 180—22.
Kraepelin, Edward O. Rubber heel. 3,133,361, 5–19–64, Cl. 36—35.
Kraeuter, Lincoln D., to Varian Associates. Microwave calorimeter wattmeter with a reflectionless R.F. termination. 3,143,703, 8–4–64, Cl. 324—95.
Krafft, Frederic B., R. E. Corrall, and J. F. Otto, to Anaconda Wire and Cable Co. Stranding apparatus. 3,142,952, 8–4–64, Cl. 57—58.32.
Kraft, Alfred. Apparatus and process for the separation of solid particles from fluids. 3,152,071, 10–6–64, Cl. 210—20.
Kraft, Arthur A., 49% to B. Yadon. Key transposing harmonica. 3,149,527, 9–22–64, Cl. 84—377.
Kraft, August L., to Automatic Process Control, Inc. Fluid metering means. 3,119,412, 1–28–64, Cl. 137—565.
Kraft, Donald L., and J. T. Roark, to Phillips Petroleum Co. Self-metering liquid applicator. 3,145,121, 8–18–64, Cl. 118—202.
Kraft, Frank B., and G. Rodger, to Hamstell Corp. Ltd. Means for adjusting the elevation of snow plow wing blades. 3,125,818, 3–24–64, Cl. 37—42.
Kraft, Gerald G.: *See*—
McKee, Robert G. 3,151,781.
Kraft, Harold D. and J. A., to Scientific Industries, Inc. Rotary apparatus for agitating fluids. 3,163,404, 12–29–64, Cl. 259—57.
Kraft, Jack A.: *See*—
Kraft, Harold D. and J. A. 3,163,404.
Kraft, James J. Portable bar. 3,140,133, 7–7–64, Cl. 312—140.2.
Kraft, John H.: *See*—
Glabe, Elmer F. 3,134,677.
Kraft, Ralph W., to United Aircraft Corp. Unidirectional solidification of lamellar eutectic alloys. 3,124,452, 3–10–64, Cl. 75—135.
Kraft, Ralph W., to United Aircraft Corp. Construction arrangement. 3,139,959, 7–7–64, Cl. 189—34.
Kraft, William M.: *See*—
Sidi, Henri, and Kraft. 3,156,727.
Kraft, William M., to Heyden Newport Chemical Corp. Aldehyde-modified alkyd resins and their production. 3,123,-578, 3–3–64, Cl. 260—22.
Kraft, William M., to Heyden Newport Chemical Corp. Pentaerythritol condensation products and their preparation. 3,126,356, 3–24–64, Cl. 260—22.
Krahe, Donald C. Apparatus for mixing and milling viscous materials. 3,150,836, 9–29–64, Cl. 241—117.
Krahe, Donald C., and H. E. Grubb, to Adhesive Engineering Co. Mixing and dispensing device. 3,140,078, 7–7–64, Cl. 259—47.
Krahn, Leo G., and E. Grossich, to Amsted Industries Inc. Take-off conveyor. 3,129,805, 4–21–64, Cl. 198—127.
Krahn, Vincent F., and D. S. Lock, to Ford Motor Co. Row crop forage harvester. 3,126,691, 3–31–64, Cl. 56—119.
Kraissl, Frederick, Jr. Impeller type pump. 3,149,575, 9–22–64, Cl. 103—118.
Krakauer, C. L., to Kay Mfg. Corp. Sinuous spring structure. 3,129,935, 4–21–64, Cl. 267—111.
Krakauer, Edward M.: *See*—
Burns, Lawrence C., and Krakauer. 3,117,875.
Krakauer, Merrill, and H. E. Verbeke, to Automatic Canteen Co. of America. Multiple-slide, single-reservoir coin dispenser. 3,135,271, 6–2–64, Cl. 133—4.
Krakauer, Merrill, and H. E. Verbeke, to Automatic Canteen Co. of America. Regulated coin released locking mechanism. 3,144,924, 8–18–64, Cl. 194—18.
Krakauer, Wallace: *See*—
Kertesz, Carl. 3,129,653.
Krakinowski, Morris: *See*—
Cerf, Gustave D., and Krakinowski. 3,145,023.
Krakower, Alvin H., and H. Schoenfeld. Brassiere. 3,131,-696, 5–5–64, Cl. 128—465.
Krakower, Gerald W.: *See*—
Fried, Josef, and Krakower. 3,127,423.
Kral, William J. Apparatus for lifting and transporting invalids. 3,123,224, 3–3–64, Cl. 212—128.
Kraley, Raymond L.: *See*—
Beaman, Charles A., and Kraley. 3,120,663.
Kralinator Filters Ltd.: *See*—
Havelka, Otakar R., and Kampf. 3,135,075.
Havelka, Otakar R., and Kampf. 3,156,259.
Kralowetz, Bruno. Forging machine. 3,135,139, 6–2–64, Cl. 78—21.
Kralowetz, Bruno. Forging machine. 3,146,642, 9–1–64, Cl. 78—22.
Kramar, Ernst, to International Standard Electric Corp. Twin beacon system. 3,130,407, 4–21–64, Cl. 343—107.

Kramcsak, Michael, Jr., and R. E. Sheahan, to Stewart-Warner Corp. Leveling device. 3,155,357, 11–3–64. Cl. 248—188.3.

Kramer, Cornelis, to North American Philips Co., Inc. Radar beacon for transmitting pulse-modulated high frequency energy upon the reception of a radar signal. 3,127,603, 3–31–64, Cl. 343—6.8.

Kramer, Daniel E.: *See*—
Kramer, Israel and D. E. 3,140,041.
Malkoff, Hyman, Kramer, and Nussbaum. 3,139,735.

Kramer, Gideon A., to Ion Corp. Chair. 3,133,765, 5–19–64, Cl. 297—445.

Kramer, Horst, and F. Sturzenhofecker, to Chemische Werke Huls, Aktiengesellschaft. Diepoxy-1,3,5-trimethylene trisulfones and their preparation. 3,155,681, 11–3–64, Cl. 260—327.

Kramer, Israel, to Kramer Trenton Co. Baseboard radiator. 3,139,925, 7–7–64, Cl. 165—67.

Kramer, Israel and D. E., to Kramer Trenton Co. Means for controlling lubrication of hermetic compressors. 3,140,041, 7–7–64, Cl. 230—44.

Kramer, Kenneth C.: *See*—
Auld, Samuel H., Jr., Kramer, and Tobie. 3,136,502.

Kramer, Lawrence I. Sheet feeding apparatus. 3,127,168, 3–31–64, Cl. 271—29.

Kramer, Leo, to Ingersoll-Rand Co. Reciprocating means. 3,116,698, 1–7–64. Cl. 103—162.

Kramer, Leonard: *See*—
Happel, John, and Kramer. 3,156,733.

Kramer, Martin R., to United Aircraft Corp. Optical pressure transducer. 3,122,922, 3–3–64, Cl. 73—398.

Kramer, Martin R., and T. J. Silver, to United Aircraft Corp. Digital rate of flow transducer. 3,140,606, 7–14–64, Cl. 73—205.

Kramer, Mary E. Therapeutic eye treating apparatus and method. 3,152,594, 10–13–64, Cl. 128—395.

Kramer, Max J., to Aluminum Co. of America. Permanent magnet rotor type ammeter responsive to the flux of a conductor carrying current to be measured. 3,129,384, 4–14–64, Cl. 324—146.

Kramer, Max O., to Coleman-Kramer, Inc. Means and method for stabilizing laminar boundary layer flow. 3,161,385, 12–15–64, Cl. 244—130.

Kramer, Norman S. Quilted headboard and method of fabrication thereof. 3,116,569, 1–7–64, Cl. 45—138.

Kramer Trenton Co.: *See*—
Kramer, Israel. 3,139,925.
Kramer, Israel and D. E. 3,140,041.
Malkoff, Hyman, Kramer, and Nussbaum. 3,139,735.

Kramer, Vance M., and L. W. Carlton. Rubber tube with enclosed metal ring. 3,131,954, 5–5–64, Cl. 285—238.

Kramer, Vance M., and L. W. Carlton. Method of and apparatus for making and joining spirally corrugated rubber tubing. 3,155,757, 11–3–64. Cl. 264—286.

Krämer, Walter, to Siemag Siegener Maschinenbau G.m.b.H. Shearing machine with rotating and translating blades. 3,121,361, 2–18–64, Cl. 83—315.

Krämer, Walter, and W. Müller, to Siemag Siegener Maschinenbau G.m.b.H. Coupling. 3,126,722. 3–31–64, Cl. 64—8.

Kramer, Walter E., to The Pure Oil Co. Disulfamic acids and related compounds. 3,118.891, 1–21–64, Cl. 260—279.

Kramer, Walter E., and L. A. Joo, to The Pure Oil Co. Degreasing compositions. 3,123,566, 3–3–64, Cl. 252—139.

Kramer, Walter E., and L. A. Joo, to The Pure Oil Co. Poly-(heterocyclic amines). 3,127,359, 3–31–64, Cl. 260—2.

Kramer, Walter E., and L. A. Joo, to The Pure Oil Co. Alkyd resins from complex acids. 3,129,192, 4–14–64, Cl. 260—22.

Kramer, Walter E., L. A. Joo, and R. M. Haines, to The Pure Oil Co. N,N′-tetrahydro bipyridyl, -biquinolyl and -biacridlyl dicarboxylic acid derivatives. 3,147,262, 9–1–64, Cl. 260—279.

Kramer, Walter E., L. A. Joo, and R. M. Haines, to The Pure Oil Co. Process for producing alkali metal adducts of aromatic solvent extracts of petroleum fractions, the products thereof and carbonation of the products. 3,153,087, 10–13–64, Cl. 260—515.

Kramer, Walter E., and L. A. Joo, to The Pure Oil Co. Preparation of alkyd resins from complex carboxylic acids prepared from solvent extracts. 3,154,507, 10–27–64, Cl. 260—22.

Kramer, William E.: *See*—
Biber, Albert, Kramer, and Walsh. 3,119,604.

Kramer, William F., to Philco Corp. Air conditioning apparatus. 3,119,242, 1–28–64, Cl. 62—280.

Kramer, William F., to Ametek, Inc. Electrical pressure transducer. 3,136,968, 6–9–64, Cl. 338—41.

Kramm, Carl H. Coin-controlled hobby horse. 3,149,837, 9–22–64, Cl. 272—53.1.

Krammes, Don C., to The Hoover Co. Unitary floor scrubbing and drying appliance. 3,117,337, 1–14–64, Cl. 15—320.

Kramp, Carl H., to North American Philips Co., Inc. Method of manufacturing alloy-diffusion transistors. 3,152,025, 10–6–64, Cl. 148—179.

Kramp, Kurt M.: *See*—
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Krampert, Edmund A. Adjustable boring tool. 3,148,561, 9–15–64, Cl. 77—58.

Krance, Casimir, to Victrylite Candle Co. Method of wrapping candles. 3,126,682, 3–31–64, Cl. 53—30.

Krane, Herbert G., and W. W. Sanders, to Standard Oil Co. Paraffin isomerization process. 3,150,205, 9–22–64, Cl. 260—683.65.

Krane, Robert, and R. F. McVicker, to Lynch Corp. Intermittent drive. 3,153,937, 10–27–64, Cl. 74—130.

Krantz-Aachen, H.: *See*—
Simons, Aloys. 3,161,273.

Krantz, Alfred. Intra-dermic injector. 3,129,708, 4–21–64, Cl. 128—173.

Krantz, Evert: *See*—
Larsson, Bengt Å., and Krantz. 3,138,087.

Krantz, Evert, to Aktiebolaget Svenska Flaktfabriken. Gas purification apparatus. 3,138,441, 6–23–64, Cl. 55—227.

Krantz, Evert, to Aktiebolaget Svenska Flaktfabriken. Apparatus for treating dust-laden gas. 3,138,442, 6–23–64, Cl. 55—227.

Krantz, Evert, to Aktiebolaget Svenska Flaktfabriken. Arrangement in an apparatus for the supply and atomizing of a liquid in a gaseous medium. 3,138,647, 6–23–64, Cl. 261—112.

Krantz, Evert, to Aktiebolaget Svenska Flaktfabriken. Wet-cleaning of gases. 3,142,548, 7–28–64, Cl. 55—89.

Krantz, H., Sohne: *See*—
Buysch, Heinrich. 3,147,532.

Krantz, Hubert. Closed apparatus for the wet treatment and particularly dyeing of textiles with liquor heated to above 100° C. 3,145,555, 8–25–64, Cl. 68—189.

Krantz, Tibor: *See*—
Lund, John A. H., and Krantz. 3,124,838.
Lund, John A., Krantz, and Silins. 3,150,974.

Krantz, Tibor, and V. Silins, to Sherritt Gordon Mines Ltd. Apparatus for roll compacting metal and metal coated particles. 3,144,681, 8–18–64, Cl. 18—9.

Krapcho, John, to Olin Mathieson Chemical Corp. Diphenylacetamide derivatives. 3,143,555, 8–4–64, Cl. 260—347.3.

Krapcho, John, to Olin Mathieson Chemical Corp. Substituted aminophenyl-ethylamine derivatives. 3,145,209, 8–18–64. Cl. 260—268.

Krapcho, John, to Olin Mathieson Chemical Corp. (2-alkoxy-2,2-diphenylethyl)-heterocyclic compounds. 3,157,656, 11–17–64, Cl. 260—268.

Krapcho, John, to Olin Mathieson Chemical Corp. Benzocycloheptenones and derivatives. 3,160,656, 12–8–64, Cl. 260—501.

Krapcho, John, and H. L. Yale, to Olin Mathieson Chemical Corp. Benzothiazole, benzothiazine, and benzothiazepine compounds. 3,117,124, 1–7–64, Cl. 260—243.

Krapcho, John, and C. F. Turk, to Olin Mathieson Chemical Corp. Benzothiazocinones, related compounds and their preparation. 3,155,649, 11–3–64, Cl. 260—239.3.

Krapf, Siegfried G. Ceramic materials and methods for their manufacture. 3,143,413, 8–4–64, Cl. 75—201.

Krapp, John T. Self venting separable coupling with lock. 3,124,374, 3–10–64. Cl. 285—85.

Krappatsch, Herbert: *See*—
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Kras, Frank B., and C. Wasserberg. Time controlled automatic arc welding tool. 3,119,010, 1–21–64, Cl. 219—127.

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Kraska, Milton A., and G. P. Gaulien, to Ford Motor Co. Glass run guide. 3,162,281, 12–22–64, Cl. 189—72.

Kraskin, Kenneth S.: *See*—
Smythe, Carl V., and Kraskin. 3,143,408.

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Kratkey, Josef, to K. and H. Gerlach. Method and device for reconditioning of worn railroad rails by re-profiling the rail head. 3,133,343, 5–19–64, Cl. 29—401.

Kratochvil, Anton. Gear train. 3,143,006, 8–4–64, Cl. 74—797.

Kratochvil, Friedrich, to Telefunken Aktiengesellschaft. Magnetic deflection yoke. 3,152,291, 10–6–64, Cl. 317—200.

Kratt, Henry J., to The Plastic Contact Lens Co. Apparatus for producing contact lenses. 3,162,985, 12–29–64, Cl. 51—217.

Kratz, Howard R., and A. W. Blackstock, to General Dynamics Corp. Pressure transducer. 3,137,171, 6–16–64, Cl. 73—398.

Kraus, Alexander, to Rohde & Schwarz. Electrical connection for waveguide or coaxial cable. 3,131,369, 4–28–64, Cl. 333—98.

Kraus, Anthony A.: *See*—
De Fandorf, John L., Hackbarth, Kraus, and Sywulka. 3,140,426.

Kraus, Arthur, and W. Eichin, to Siemens & Halske Aktiengesellschaft. Travelling wave tube having an elastically mounted helical delay line. 3,117,250, 1–7–64, Cl. 315—3.5.

Kraus, Charles E.: *See*—
Davis, Michael, and Kraus. 3,142,189.

Kraus, Charles E., to Excelermatic, Inc. Roller support mechanism for toroidal drive. 3,159,042, 12–1–64, Cl. 74—200.

Kraus, Charles E., to Excelermatic Inc. Hydrodynamic converter. 3,160,029, 12–8–64, Cl. 74—688.

Kraus, Charles E., to Excelermatic, Inc. Toroidal transmission bearing means. 3,163,050, 12–29–64, Cl. 74—200.

Kraus, Charles E., to Excelermatic, Inc. Roller construction for toroidal transmissions. 3,163,051, 12–29–64, Cl. 74—200.

Kraus, Franz, to W. Schmidding. Siphon dispenser. 3,161,327, 12–15–64, Cl. 222—204.
Kraus, George, to Curtiss-Wright Corp. Multi-layer anisotropic heat shield construction. 3,156,091, 11–10–64, Cl. 60—35.6.
Kraus, Gerard, to Phillips Petroleum Co. Cis-polybutadiene compositions. 3,159,691, 12–1–64, Cl. 260—894.
Kraus, Gerard, and J. T. Gruver, to Phillips Petroleum Co. Method of curing polymeric materials and the product thereof. 3,153,639, 10–20–64, Cl. 260—85.1.
Kraus, Harold. Crushing tool for mineral assaying. 3,124,313, 3–10–64, Cl. 241—74.
Kraus, James J., to Kimberly-Clark Corp. Papermaking drying drum. 3,116,985, 1–7–64, Cl. 34—110.
Kraus, James J., to Kimberly-Clark Corp. Process of coating paper with a trailing blade. 3,152,918, 10–13–64, Cl. 117—63.
Kraus, James J., Sr.: *See*—
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Kraus, Ludwig: *See*—
Nallinger, Friedrich K. H., Kraus, and Dobler. 3,159,148.
Kraus, Ludwig, to Daimler-Benz Aktiengesellschaft. Wheel suspension for vehicles. 3,161,251, 12–15–64, Cl. 180—64.
Kraus, Ludwig, and A. Allert, to Daimler-Benz Aktiengesellschaft. Drive for swinging half axles. 3,118,515, 1–21–64, Cl. 180—73.
Krause, Albert L. and M. C. Windshield scraper. 3,130,436, 4–28–64, Cl. 15—236.
Krause, Arno: *See*—
Boldt, Heinz, Krause, and Nink. 3,159,331.
Krause, Arthur H., to United Shoe Machinery Corp. Sealant from an isocyanate-terminated polyol, a diglycidyl polyether, and a polyol. 3,158,586, 11–24–64, Cl. 260—40.
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Frager, Glenn E., and Stansel. 3,158,205.
Krause, Edward H., Jr.: *See*—
Sheperd, Ervin M., and Krause. 3,137,479.
Krause, Erich. Safety attachments for wallets. 3,129,741, 4–21–64, Cl. 150—47.
Krause, Frank R. Leaf spring tapering apparatus. 3,145,591, 8–25–64, Cl. 80—19.
Krause, Friedrich, K. Heimel, and L. Starck, to Linotype G.m.b.H. Malfunction detection arrangement for a linecasting machine. 3,139,178, 6–30–64, Cl. 199—18.
Krause, Gerhard P.: *See*—
Zilges, Franz-Josef, and Krause. 3,123,215.
Krause, Gerhard P., to Schloemann Aktiengesellschaft. Extrusion presses. 3,124,250, 3–10–64, Cl. 207—1.
Krause, Gerhard P., and H.-H. Groos, to Schloemann Aktiengesellschaft. Horizontal metal-extrusion presses. 3,143,211, 8–4–64, Cl. 207—3.
Krause, Ira J., to Abbott Laboratories. Device for parenteral solutions. 3,128,917, 4–14–64, Cl. 222—190.
Krause, James N., to The Anaconda Aluminum Co. Container. 3,156,401, 11–10–64, Cl. 229—4.5.
Krause, John F., Jr., to General American Transportation Corp. Railway tank cars. 3,139,841, 7–7–64, Cl. 105—360.
Krause, Manfred: *See*—
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Krause, Martin C.: *See*—
Krause, Albert L. and M. C. 3,130,436.
Krause, Paul L.: *See*—
Stone, Albert L. 3,118,492.
Krause, Richard T.: *See*—
Just, Alex, Maximoff, and Krause. 3,136,591.
Krause, Robert J.: *See*—
Neumeier, Albert Johnson, and Krause. 3,154,972.
Krause, Susan: *See*—
Dvorkovitz, Vladimir, Berst, and Krause. 3,140,262.
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Krauss-Maffei Aktiengesellschaft: *See*—
Wenger, Karl. 3,156,014.
Wirth, Thomas, Ellermann, and Hartmann. 3,143,767.
Zöllner, Fritz. 3,140,866.
Krauss, Robert D. Play pen. 3,119,124, 1–28–64, Cl. 5—99.
Krauss, Robert E., and V. Georgeff, to Danly Machine Specialties, Inc. Die cushion locking and pull down cylinder. 3,162,159, 12–22–64, Cl. 113—45.
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Krausz, Allan E., to Lear Siegler Inc. Heater. 3,133,534, 5–19–64, Cl. 126—92.
Kraut, Charles W.: *See*—
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Kraut, Wilhelm, Bizerba-Werke, KG.: *See*—
Kuhnle, Ernst, and Schwarz. 3,129,879.
Krauth, Ernest. System for propelling and steering vessels. 3,122,121, 2–25–64, Cl. 115—12.
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Kravetz, John J., and A. W. MacAlonan, to The Stalwart Rubber Co. Chicken picking finger. 3,124,832, 3–17–64, Cl. 17—1.1.
Kravitz, Harvey. Vaccinating devices. 3,136,314, 6–9–64, Cl. 128—253.
Kravitz, Harvey, and N. Lettvin. Means for vaccinating. Re. 25,637, 9–8–64, Cl. 128—253.
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Kesilman, Sol, Penn, and Kravitz. 3,146,735.
Krawacki, Michael J., to Trojan Corp. Reaction block unit for rotary motion apparatus. 3,136,262, 6–9–64, Cl. 103—139.
Krawiec, Henry A. Catheter supports. 3,146,778, 9–1–64, Cl. 128—349.
Kray, Raymond J., and T. J. Dolce, to Celanese Corp. of America. Thermal stabilization of oxymethylene polymers by the use of maleurate esters. 3,156,669, 11–10–64, Cl. 260—45.85.
Kraychy, Stephen, to G. D. Searle & Co. 7,17β-dioxygenated androst-4-en-3-one. 3,158,627, 11–24–64, Cl. 260—397.4.
Krayl, Gerhard, to Aktiengesellschaft fur Feinmechanik vormals Jetter & Scheerer. Suction device for surgical purposes. 3,146,987, 9–1–64, Cl. 251—100.
Krebadzio, Horst, to Elmeg Elektro-Mechanik G.m.b.H. Register reset mechanism. 3,122,315, 2–25–64, Cl. 235—144.
Krebaum, Lawrence J., to Monsanto Chemical Co. Preparation of acetonitrile. 3,129,241, 4–14–64, Cl. 260—465.3.
Krebaum, Lawrence J., to Monsanto Co. Production of unsaturated nitriles. 3,141,034, 7–14–64, Cl. 260—465.9.
Krebber, Erich: *See*—
Schuller, Werner H. W., and E. and H. J. Krebber. 3,135,069.
Krebber, Hans J.: *See*—
Schuller, Werner H. W., and E. and H. J. Krebber. 3,135.069.
Krebs, Karl, to Gerdes & Co., Firma. Yarn carrier. 3,141,631, 7–21–64, Cl. 242—118.3.
Krebs, Richard W., to Equipment Engineers, Inc. Separating apparatus. 3,134,734, 5–26–64, Cl. 210—257.
Krebs, Willi. Galvanic primary and secondary element or cell with three electrodes. 3,132,053, 5–5–64, Cl. 136—3.
Krebsdzio, Horst, to Elmeg Elektro-Mecanik G.m.b.H. Mechanism for re-setting to zero the digit rolls of impulse counters. 3,131,861, 5–5–64, Cl. 235—144.
Kregel, Richard F., to American Sugar Co. Apparatus and method for the examination of free flowing solid materials. 3,122,925, 3–3–64, Cl. 73—432.
Kreger, Floyd L.: *See*—
Ahlich, Harold G., Kreger, and Amos. 3,157,720.
Kreger, Ralph E., to Detroit Stamping Co. Portable toggle clamp with trigger release. 3,118,331, 1–21–64, Cl. 81—351.
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Kreidel, Hans, Sr., and H. Kreidel, Jr. 3,134,155.
Kreidel, Hans, Sr., and H. Kreidel, Jr., to Inventex G.m.b.H. Strap clamping device. 3,134,155, 5–26–64, Cl. 24—279.
Kreider, David B., to F. W. Rohe. Clip nut. 3,118,480, 1–21–64, Cl. 151—41.75.
Kreider, David B., to F. W. Rohe. Spring clip and nut assembly. 3,145,753, 8–25–64, Cl. 151—41.75.
Kreider, Lloyd A. Tube notching machine. 3,120,143, 2–4–64, Cl. 83—454.
Kreider, Peter A. Trash disposal apparatus. 3,155,314, 11–3–64. Cl. 232—43.2.
Kreidl, Dr. Werner H.: *See*—
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Fleming, Walter I., and Kreilick. 3,135,228.
Krein, John H., and F. W. Cook, to ACF Industries, Inc. Carburetor. 3,139,874, 7–7–64, Cl. 123—122.
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Kreis, Fritz. Infinitely variable speed gear type torque converter. 3,130,606, 4–28–64, Cl. 74—751.
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Hauser, Seymour. 3,140,581.
Hauser, Seymour, and Vedel. 3,133,406.
Kreisman, Wallace S., to Geophysics Corporation of America. Magnetron type mass spectrometer. 3,162,760, 12–22–64, Cl. 250—41.9.
Kreissig, Johannes, to Robert Bosch, G.m.b.H. Process for manufacturing a lever assembly. 3,132,412, 5–12–64, Cl. 29—155.5.
Kreissig, Johannes, and M. Lenz., to Robert Bosch, G.m.b.H. Ignition interruptor for internal combustion engine. 3,146,321, 8–25–64, Cl. 200—19.
Kreiter, George W., and J. H. Riza, to Ling-Temco-Vought, Inc. Resistance welding means and method. 3,119,007, 1–21–64. Cl. 219—91.

Krekeler, Claude B., to The Cincinnati Mine Machinery Co. Double-ended cutter bit and socket construction. 3,148,-002, 9–8–64, Cl. 209—92.
Krekeler, Claude B., to The Cincinnati Mine Machinery Co. Lateral plate pusher-type conveyor. 3,155,225, 11–3–64, Cl. 198—171.
Krell, Adolph. Adjustable shank button holder attachment. 3,163,135, 12–29–64, Cl. 112—114.
Krell, Herbert L., to Jarman-Williamson Co. Golf player's rest. 3,162,461, 12–22–64, Cl. 280—47.19.
Krellner, Walter G., to Stackpole Carbon Co. Twin electric brush assembly with pressure arm wedge. 3,158,772, 11–24–64, Cl. 310—246.
Krembel, Frank, Jr., to Columbia Marking Tools, Inc. Die holder. 3,116,683, 1–7–64, Cl. 101—28.
Kremer, Alex, to International Rectifier Corp. Lapping device. 3,151,421, 10–6–64, Cl. 51—161.
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Krenke, Norman O., to Baker Perkins Inc. Pneumatic conveyor system. 3,158,405, 11–24–64, Cl. 302—3.
Krepps, James E., Jr., to Sarkes Tarzian, Inc. Superheterodyne receiver with hum filter and voltage regulation. 2,146,399, 8–25–64, Cl. 325—440.
Kreps, Robert W. F., and A. Klootwijk to Shell Oil Co. Process for preparing epoxy esters of alpha, alpha-dialkyl monocarboxylic acids. 3,142,686, 7–28–64, Cl. 260—348.
Kreps, Robert W. F., G. C. Vegter, and F. H. Sinnema, to Shell Oil Co. High-impact alkyd resins modified with triethylene glycol. 3,161,618, 12–15–64, Cl. 260—75.
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Krespan, Carl G., to E. I. du Pont de Nemours and Co. Esters of 1,2-dicyamo-1,2-dimercaptoethylene. 3,140,295, 7–7–64, Cl. 260—327.
Krespan, Carl G., to E. I. du Pont de Nemours and Co. Fluorinated tetrahydro-thiophenes and selenophenes and related products. 3,149,124, 9–15–64, Cl. 260—332.2.
Kress Automative Engineering: *See*—
Kress, Edward S. 3,154,301.
Kress, Edward S. 3,154,322.
Kress, Ralph H. 3,123,171.
Kress, Bernard H., to Quaker Chemical Corp. Acetal condensation products and their preparation. 3,150,190, 9–22–64, Cl. 260—615.
Kress, Charles E.: *See*—
Anderson, Lynn T., and Kress. 3,125,642.
Kress, Edward S., to Kress Automotive Engineering. Suspension device. 3,154,301, 10–27–64, Cl. 267—64.
Kress, Edward S., to Kress Automotive Engineering. Wheel suspension system for vehicles. 3,154,322, 10–27–64, Cl. 280—124.
Kress, Herwig, to Beteiligungs- und Patentverwaltungsgesellschaft mit beschrankter Haftung. Drive for conversion of a reciprocating movement into a rotary movement with a liquid as conversion means. 3,135,094, 6–2–64, Cl. 60—54.5.
Kress, Ralph H., to Kress Automative Engineering. Vehicle. 3,123,171, 3–3–64, Cl. 180—73.
Kresse, Gunter, and A. Maschke, to Schering A.G. Aryl sulfonylthionylamides and derivatives thereof and methods of producing the same. 3,143.558, 8–4–64, Cl. 260—397.7.
Kressman, Theodore R. E., and J. R. Millar, to The Permutit Co. Ltd. Removal of anions from aqueous solutions. 3,147,214, 9–1–64, Cl. 210—24.
Krestel, Erich, and E. Rainer, to Siemens-Schuckertwerke Aktiengesellschaft. Switching device for disconnection of a load from a direct-current supply. 3,122,659, 2–25–64, Cl. 307—136.
Krestin, Hans G., and A. Seidl, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Brüning. Metal-separating device. 3,117,080, 1–7–64, Cl. 209—1.
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Kretsch, Rosl, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Brüning. Process for working up stretched filaments of aromatic polyesters of high molecular weight. 3,159,964, 12–8–64, Cl. 57—157.
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Kretzmer, Ernest R., to Bell Telephone Laboratories, Inc. Variable pulse length code detector. 3,138,717, 6–23–64, Cl. 307—88.
Kretzmer, Minor G., Jr., to The A. C. Gilbert Co. Multiple branch lane switching in model traffic system. 3,117,755, 1–14–64, Cl. 246—415.
Kretzmer, Minor G., Jr., R. E. Davis, Jr., and W. B. Gross, to The A. C. Gilbert Co. Truck and releasable coupler for miniature trains. 3,140,783, 7–14–64, Cl. 213—75.
Kretzschmar, Karl H., to Socony Mobil Oil Co., Inc. Well head having seal means adjustable and replaceable under pressure. 3,127,197, 3–31–64, Cl. 285—137.
Kreuschmer, Rudolf, to Allma Allgauer Maschinenbau G.m.b.H. Spool head for double twisting machines. 3,153,-894, 10–27–64, Cl. 57—58.76.
Kreuter, Kenneth G., to Robertshaw Controls Co. Air ejector. 3,120,240, 2–4–64, Cl. 137—210.
Kreuter, Kenneth G., to Robertshaw Controls Co. Constant volume control. 3,125,109, 3–17–64, Cl. 137—82.
Kreutzer, Walter A. Swimming pool surface cleaning apparatus. 3,152,076, 10–6–64, Cl. 210—169.
Kreuzer, Helmuth: *See*—
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Kreuzer, Walter, to Dynamit Nobel A.G. Lead shotgun pellets. 3,120,188, 2–4–64, Cl. 102—92.5.
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Krewson, Charles F.: *See*—
Scott, William E., Krewson, and Riemenschneider. 3,139,-387.
Krewson, Charles F., W. E. Scott, and J. S. Ard, to United States of America, Agriculture. Process for obtaining trivernolin. 3,157,676, 11–17–64, Cl. 260—348.
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Kreysa, Frank J., to W. R. Grace & Co. Oxidation process for the production of aromatic nitriles. 3,117,154, 1–7–64, Cl. 260—465.
Krezek, Donald, to Basic Products Corp. Voltage and power factor regulator using polyunit, polyphase saturable reactor. 3,139,577, 6–30–64, Cl. 323—102.
Krieger, Hans E. Bicyclic aminoketones and method for the production thereof. 3,153,039, 10–13–64, Cl. 260—247.7.
Krieger, Harold A. Retractable apparatus. 3,138,196, 6–23–64, Cl. 160—191.
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Arkus-Duntov, Zora, Krieger, and Zetye. 3,147,815.
Krieger, Irving W., Sr., and E. A. Paramann, to Furnas Electric Co. Pressure switch with low pressure cut-out. 3,139,-493, 6–30–64, Cl. 200—67.
Krieger, Kenneth H.: *See*—
Jones, Robert T., Krieger, and Lago. 3,158,648.
Krieger, Roland E.: *See*—
Gill, Robert F., Jr., and Krieger. 3,129,463.
Krieger, Wilhelm A., and L. May, to Keuffel & Esser Co. Photosensitive diazotype material comprising a starch, silica and a binder. 3,159,487, 12–1–64, Cl. 96—75.
Krieps, Frank J., and H. H. Mattheis, to Container Corp. of America. Container closure with removable section. 3,142,-404, 7–28–64, Cl. 215—46.
Krier, Keith N.: *See*—
Peabody, Ralph C., and Krier. 3,160,908.
Kriken Machine Mfg. Co.: *See*—
Townsend, Ward M. 3,136,274.
Krikorian, George, to Coro, Inc. of Rhode Island. Method of manufacture of article of jewelry. 3,154,841, 11–3–64, Cl. 29—160.6.
Krilanovich, Joseph J. Musical instrument. 3,154,996, 11–3–64, Cl. 84—401.
Krimm, Heinrich: *See*—
Schnell, Hermann, Bottenbruch, Krimm, and Fritz. 3,136,741.
Kringel, Theodore H., and E. Wilk, to Allied Tube & Conduit Corp. Continuous tube forming and galvanizing. 3,122,-114, 2–25–64, Cl. 113—33.
Krinitz, Arthur, and P. R. Johannessen, to Massachusetts Institute of Technology. High-power semiconductor-magnetic pulse generator. 3,138,716, 6–23–64, Cl. 307—88.
Kripak, Leonid: *See*—
Glass, Marvin I., and Kripak. 3,151,866.
Kripak, Leonid, to Marvin Glass and Associates. Squirting cigarette lighter. 3,139,280, 6–30–64, Cl. 272—27.
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Krischker, Joseph, to Uhrenfabrik Villingen, J. Kaiser G.m.b.H. Electrical motor and driving gears for time-pieces. 3,139,548, 6–30–64, Cl. 310—83.
Kristensen, Paul A., T. D. Rossing, and C. W. Lundberg, to Sperry Rand Corp. Superposed printed conductors through magnetic cores. 3,136,929, 6–9–64, Cl. 317—158.
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Kritske, Victor J.: *See*—
May, Ellwood H., and Kritske. 3,131,654.
Kritske, Victor J., to Mayline Co., Inc. Counterbalanced tiltable table. 3,161,159, 12–15–64, Cl. 108—2.
Kritz, Jack, to American Bosch Arma Corp. High power sonic transducers. 3,123,727, 3–3–64, Cl. 310—8.2.
Kritzer, Richard W. Refrigerating system with continuous integral closed circuit refrigerant-conducting tubing. 3,133,430, 5–19–64, Cl. 62—503.

Kritzer, Richard W., to Peerless of America, Inc. Radiator assembly with booster control. 3,151,670, 10–6–64, Cl. 165—122.

Kritzer, Richard W., to Peerless of America, Inc. Radiator assembly with booster control. 3,151,671, 10–6–64, Cl. 165—122.

Kritzer, Richard W. Heat exchange units. 3,153,443, 10–20–64, Cl. 165—67.

Kritzler, Helmuth: *See*—
Wagner, Kuno, and Kritzler. 3,135,718.

Kritzler, Helmuth, and K. Wagner, to Farbenfabriken Bayer Aktiengesellschaft. Polymerisation of formaldehyde. 3,155,-636, 11–3–64, Cl. 260—67.

Kritzler, Helmuth, and K. Wagner, to Farbenfabriken Bayer Aktiengesellschaft. Polymerization of formaldehyde. 3,161,617, 12–15–64, Cl. 260—67.

Krizman Mfg. Co., Inc.: *See*—
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Krizman, Steve. 3,144,260.
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Krizman, Steve, to Krizman Mfg. Co., Inc. Seal construction for power cylinder. 3,144,254, 8–11–64, Cl. 277—111.

Krizman, Steve, to Krizman Mfg. Co., Inc. Trunnion for front wheel suspension. 3,144,260, 8–11–64, Cl. 280—96.1.

Krizman, Steve, to Krizman Mfg. Co., Inc. Rotatable stud construction. 3,163,451, 12–29–64, Cl. 287—93.

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Kroeck, William H.: *See*—
Dalton, Robert H., and Kroeck. 3,140,779.

Kroell, Charles K., to General Motors Corp. Energy absorbing vehicle bumper assembly. 3,146,014, 8–25–64, Cl. 293—70.

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Platz, Rolf, Kroeper, and Schloemer. 3,130,242.

Kroesch, Milton F., to Pressed Steel Tank Co. Welding apparatus. 3,129,746, 4–21–64, Cl. 158—27.4.

Kroffke, Kenneth K., to Airmatic Valve, Inc. Fluid pressure actuated flexible sleeve valve. 3,159,373, 12–1–64, Cl. 251—5.

Kroffke, Kenneth K., to Airmatic Valve, Inc. Flexible diaphragm control valve. 3,159,374, 12–1–64, Cl. 251—30.

Krogen, Julius J., and D. M. Logsdon; said Logsdon assor. to said Krogen. Belt sander. 3,127,712, 4–7–64, Cl. 51—148.

Kroger, Hanns H., and H. von Doehren, to Varta Aktiengesellschaft. Process for impregnating porous electrodes, and electrodes produced thereby. 3,146,130, 8–25–64, Cl. 136—34.

Krogh, Lester C.: *See*—
Eikvar, Tore, Krogh, and Luecke. 3,158,494.

Krogsdale, Virginia R.: *See*—
Johnson, Fred R. 3,118,573.

Krohm, Fred A., to The Anderson Co. Arm extension adjustor. 3,122,770, 3–3–64, Cl. 15—250.13.

Krohm, Fred A., to The Anderson Co. Means for attaching a wiper arm to a shaft. 3,126,216, 3–24–64, Cl. 287—53.

Krohm, Fred A., to The Anderson Co. Wiper arm assembly. 3,126,567, 3–31–64, Cl. 15—250.32.

Krohn, Henry W., Jr.: *See*—
Boyer, Ralph K., Krohn, and Tobold. 3,125,135.

Krohn, Victor E., Jr., to Thompson Ramo Wooldridge Inc. Apparatus for producing charged liquid particles. 3,157,-819, 11–17–64, Cl. 315—111.

Krohne, Hans G.: *See*—
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Krokos, Raymond, to Evans Products Co. Rack. 3,119,498, 1–28–64, Cl. 211—182.

Krokos, Raymond M., to Evans Products Co. Horizontally and vertically adjustable rack. 3,126,102, 3–24–64, Cl. 211—176.

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Kroll, Harry, to Geigy Chemical Corp. Herbicidal composition and method employing hydantoins. 3,134,663, 5–26–64, Cl. 71—2.5.

Kroll, William H.: *See*—
Alvarez, Belarmino, and Kroll. 3,119,002.
Alvarez, Belarmino, and Kroll. 3,125,660.
Alvarez, Belarmino, and Kroll. 3,125,661.
Alvarez, Belarmino, and Kroll. 3,125,662.

Kroll, William H. Material testing by ultrasonic flaw detection. 3,137,162, 6–16–64, Cl. 73—71.5.

Kroll, Wolf R.: *See*—
Ziegler, Karl, Köster, and Kroll. 3,159,689.

Kroll, Wolf R., to Continental Oil Co. Complex of alkali metal cyanide and alkyl-aluminum dihalide. 3,146,247, 8–25–64. Cl. 260—448.

Kroll, Wolf R., to Continental Oil Co. Complexes of trialkylaluminum with mixed alkali metal cyanides. 3,153,-075, 10–13–64, Cl. 260—448.

Krollman, Edward J., to American Machine & Foundry Co. Automatic pinspotter spare practice device having selectively deactivated respotting units. 3,138,378, 6–23–64, Cl. 273—43.

Krolzick, Gordon J.: *See*—
De Pas, Laddie A., Spiegel, and Krolzick. 3,163,028.

Krom, Myron E.: *See*—
Blount, Frank E., and Krom. 3,133,156.

Kromer, Karl, and W. Hahn, to VEB Kamera- und Kinowerke Dresden. Photographic objective lens. 3,149,548, 9–22–64, Cl. 95—45.

Kromer, Wallace R. Method of and aparatus for carbonating cooling, storing, distributing and dispensing beverages. 3,162,323, 12–22–64, Cl. 222—1.

Kromschroder G., Aktiengesellschaft: *See*—
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Kron, Harold O., M. C. Stafford, and J. W. Howell, to King of Prussia Research and Development Corp. Multiple-input shaft-mounted drive. 3,151,502, 10–6–64, Cl. 74—665.

Kronacher, Hermann: *See*—
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Krone G.m.b.H.: *See*—
Krone, Heinz. 3,138,675.

Krone, Heinz, to Krone G.m.b.H. Separating and testing plug contact, particularly for separating soldering tag strips in telecommunication technique. 3,138,675, 6–23–64, Cl. 200—51.09.

Kroneberg, Hans-Gunther: *See*—
Hiltmann, Rudolf, Wollweber, Hoffmeister, Wirth, and Kroneberg. 3,163,654.

Kronheim, John H., to Walter Kidde & Co. Valve control head. 3,146,916, 9–1–64, Cl. 222—182.

Kronig, Walter, O. Tegtmeyer, and W. Schmidt, to Farbenfabriken Bayer Aktiengesellschaft. Dehydrogenation of hydrocarbons. 3,118,007, 1–14–64, Cl. 260—680.

Kronig, Walter, and K. Vopel, to Farbenfabriken Bayer Aktiengesellschaft. Process for the alkylation and transalkylation of benzene-hydrocarbons. 3,126,423, 3–24–64, Cl. 260—671.

Kronig, Walter, and W. Swodenk, to Farbenfabriken Bayer Aktiengesellschaft. Process for the reaction of isobutene with formaldehyde. 3,154,563, 10–27–64, Cl. 260—340.7.

Kronlund, Raymond W. Peat moss washing method and apparatus. 3,140,961, 7–14–64, Cl. 134—25.

Kronogard, Sven-Olof, to Volvo, Ab. Automotive gas turbine power plant. 3,138,923, 6–30–64, Cl. 60—39.2.

Kronogård, Sven-Olof, to Volvo, Ab. Gas turbine plant. 3,154,918, 11–3–64, Cl. 60—39.16.

Kronogård, Sven-Olof, to Volvo, Ab. Hydrodynamic torque converter. 3,154,924, 11–3–64, Cl. 60—54.

Kronprinz Aktiengesellschaft: *See*—
Albert, Werner. 3,117,369.
Brütsch, Wilhelm, Busch, and Roskothen. 3,118,540.
Hendricks, Ernst. 3,161,222.

Kroodsma, Adaline R., and C. A. Warnke. Sliding type dispenser. 3,141,582, 7–21–64, Cl. 222—284.

Krook, Edwin J.: *See*—
Maurits, Orville C., and Krook. 3,142,506.

Kroon, Dirk J., and J. Volger, to North American Philips Co., Inc. Device for recording nuclear resonance spectra. 3,137,813, 6–16–64, Cl. 324—.5.

Kroon, James L.: *See*—
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Kroon, John J. Luminous electric clock. 3,145,526, 8–25–64, Cl. 58—050.

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Kumpf, Hermann, and Kröpfl. 3,137,638.

Kropiwnicki, Tadek M.: *See*—
Privon, George T., and Kropiwnicki. 3,162,360.

Kropp, Karl, and H. Millendorfer, to C. Reichert, Optische Werke Aktiengesellschaft. Photomicrographic equipments. 3,130,634, 4–28–64, Cl. 88—24.

Kropp, Richard G., to General Motors Corp. Clip type cable fastening device. 3,126,184, 3–24–64, Cl. 248—73.

Kropp Speed-Way, Inc.: *See*—
Lengyel, Charles N. 3,147,585.

Kropp, Willis A., and J. J. Piotti, to General Time Corp. Rotary solenoid and method of assembling same. 3,147,411, 9–1–64, Cl. 317—197.

Krossa, Kenneth D., to Burroughs Corp. Adjustable clamp for transistor switching circuits. 3,160,765, 12–8–64, Cl. 307—88.5.

Krossa, Kenneth D., and N. Deo, to Burroughs Corp. Isolation circuit, including diodes and a resistance for use in highly stable timing circuits. 3,130,327, 4–21–64, Cl. 307—88.5.

Krsek, George, W. C. Benzing, and B. Topas, to Merck & Co., Inc. Epitaxial deposition on a substrate placed in a socket of the carrier member. 3,131.098, 4–28–64, Cl. 148—175.

Kruck, Ralph E. Burner for normally liquid solidified fuel. 3,130,774, 4–28–64, Cl. 158—86.

Kruck, Ralph E., to Metal Fabrications, Inc. Spray dispensing devices. 3,139,223, 6–30–64, Cl. 222—394.

Kruckeberg, Christian W.: *See*—
Jauch, Robert J., and Kruckeberg. 3,152,724.
Schulze, Robert E., Jauch, and Kruckeberg. 3,119,522.

Kruckenberg, Winfried, and A. Schultheiss, to Farbenfabriken Bayer Aktiengesellschaft. Spin-dyeing of acrylonitrile polymers. 3,122,517, 2–25–64, Cl. 260—41.

Kruckenberg, Winfried, and K. Weis, to Farbenfabriken Bayer Aktiengesellschaft. Azo dyeing of polyethylene terephthalate fibers and fibers so produced. 3,125,402, 3–17–64, Cl. 8—41.

Krueger, Alfred E. Circuit controller. 3,125,371, 3–17–64, Cl. 296—44.

Krueger, Alfred E., to General Motors Corp. Convertible top header latch. 3,129,025, 4–14–64, Cl. 292—97.

Krueger, Alfred E., and B. D. Priestman, to General Motors Corp. Locking mechanism for folding seats. 3,121,585, 2–18–64, Cl. 296—66.
Krueger, Alfred P., to Minnesota Mining and Mfg. Co. Tape dispenser. 3,143,019, 8–4–64, Cl. 83—224.
Krueger, Archie S.: *See*—
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Krueger, Archie S., to Alwin Mfg. Co. Dispenser for folded paper articles. 3,124,268, 3–10–64, Cl. 221—36.
Krueger, Friedrich: *See*—
Kimmig, Josef, Rudy, Krueger, Miksch, and Bauer. 3,133,912.
Krueger, Friedrich, to Joh. A. Benckiser, G.m.b.H., Chemische Fabrik. 5-Nitro furfurylidene-D-glucosamine, and process of making same. 3,122,535, 2–25–64, Cl. 260—211.
Krueger, Glenn N.: *See*—
Frostick, Harold G., and Krueger. 3,146,866.
Krueger, Helmut H. A.: *See*—
Jaffe, Hans, and Krueger. 3,149,232.
Krueger, John W., and F. A. Andrews, to A. E. Staley Mfg. Co. Fractionation of soybean hulls. 3,119,805, 1–28–64, Cl. 260—123.5.
Krueger, John W., and J. F. Warner, to La Salle Steel Co. Marking device and method. 3,124,069, 3–10–64, Cl. 101—426.
Krueger, Mark T. Fishing device and mountings therefor. 3,134,186, 5–26–64, Cl. 43—17.
Krueger, Melvin W., to Dairy Equipment Co. Truck tank. 3,163,434, 12–29–64, Cl. 280—5.
Krueger, Melvin W., and G. B. Luhman, Jr., to Dairy Equipment Co. Transport tank. 3,163,435, 12–29–64, Cl. 280—5.
Krueger, Norman F., and G. A. Spillson, to Consolidated Paper Co. Center support carton. 3,130,892, 4–28–64, Cl. 229—16.
Krueger, Rudolph E., ½ to W. C. Deeds. Air density meter. 3,137,158, 6–16–64, Cl. 73—30.
Krueger, Rudolph E. Sealing means. 3,161.318. 12–15–64, Cl. 220—46.
Krueger, Theodore H., and N. Campanaro, to Better Packages, Inc. Method of preparing and applying sealing tape. 3,157,550, 11–17–64, Cl. 156—320.
Krueger, Theodore H., Jr. Arched structure. 3,144,103, 8–11–64, Cl. 189—1.
Kruell, Andreas. Window blind with vertical slats. 3,159,-204, 12–1–64, Cl. 160—168.
Krug, Albert E., to Becton Dickinson and Co. Suction device. 3,125,094, 3–17–64, Cl. 128—300.
Krug, Albert E., and G. H. Keller, to Dickinson, Becton, and Co. Self sealing pierceable stopper for sealed containers. 3,136,440, 6–9–64, Cl. 215—47.
Krug, Robert H.: *See*—
Kay, Edward L., Tierney, Krug, and Henry. 3,125,528.
Krug, Robert H., R. B. Tierney, E. C. Knowles, and E. L. Kay, to Texaco Inc. Synergistic combination of extreme pressure additives for lubricating oils. 3,125,527, 3–17–64, Cl. 252—46.3.
Krug, William H.: *See*—
Gibbs, Thomas B., Krug, and Marshall. 3,150,228.
Kruger, Dr. Hans-Joachim: *See*—
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Kruger, Ernst, to Elektro-Thermit G.m.b.H. Apparatus for grinding rails. 3,154,892, 11–3–64, Cl. 51—178.
Kruger, James B., and R. L. Bordeau, to Philip Morris, Inc. Injector magazine for injector razor blades. 3,126,126, 3–24–64, Cl. 221—102.
Kruger, Michael H., to Smithcraft Corp. Ceiling illuminating system. Re. 25,628, 8–4–64, Cl. 240—9.
Kruger, Michael H., to Smithcraft Corp. Lighting. 3,124,-311, 3–10–64, Cl. 240—78.
Kruimink, Rudolf M.: *See*—
Westerveld, Willem, Flipse, and Kruimink. 3,160,513.
Kruithoff, Neal. Method of forming a core for casting a copper transformer element. 3,140,518, 7–14–64, Cl. 22—194.
Kruitwagen, Reinirus A. L., and A. B. Pasteuning, to AMP Inc. Connector pins. 3,163,485, 12–29–64, Cl. 339—272.
Krukziener, Maurits: *See*—
Van der Voort, Henricus G. P. and Krukziener. 3,130,-161.
Krumheuer, Sidney F., to Rockwood & Co. Feed conveyors for bunk feeders. 3,116,715, 1–7–64, Cl. 119—52.
Krummel, Frederick J., to Walworth Co. Check valve for relatively large size pipe. 3,128,785, 4–14–64, Cl. 137—315.
Krumrei, William C.: *See*—
Bahr, Gary R., and Krumrei. 3,117,871.
Krup, Donald E. Mixing device. 3,140,861, 7–14–64, Cl. 259—10.
Krupick, Walter J., and W. J. Lewis, to General Precision, Inc. Compact inertial-damped single-axis accelerometer. 3,132,-521, 5–12–64, Cl. 73—517.
Krupick, Walter J., and M. Gabor, to General Precision Inc. Sub-miniature fluid damper gyro, fitted with temperature compensation mechanism. 3,132,524, 5–12–64, Cl. 74—5.5.
Krupick, Walter J., and J. Hoffman, to General Precision Inc. Laminated gimbal for gyro and method of making. 3,134,-265, 5–26–64, Cl. 74—5.5.
Krupka, George, J. S. Schultz, and D. T. Winski, to American Cyanamid Co. Recovery of streptokinase from fermentation mashes. 3,145,153, 8–18–64, Cl. 195—66.
Krupnik, Norman. Gliding vehicle for use on snow, ice or water. 3,143,357, 8–4–64, Cl. 280—16.
Krupotich, Edward A., to T. W. Evans, H. J. Sherman, W. Clark, and E. A. Krupotich, doing business as partners. Envelope opening and distributing apparatus. 3,132,629, 5–12–64, Cl. 120—35.
Krupotich, Edward A., to T. W. Evans, H. J. Sherman, W. Clark, and E. A. Krupotich. Unfolding mechanism for envelope opening apparatus. 3,143,100, 8–4–64, Cl. 120—35.
Krupotich, Edward A., E. F. Pierce, and R. E. Berg, to T. W. Evans, H. J. Sherman, and W. Clark. Envelope opener and distribution apparatus. 3,116,718, 1–7–64, Cl. 120—35.
Krupp, Anton M., and R. D. Divoky, to General Electric Co. Electric lamp socket. 3,128,141, 4–7–64, Cl. 339—97.
Krupp-Dolberg Gesellschaft mit beschrankter Haftung: *See*—
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Krupp, Frederick W., to Gudebrod Brothers Silk Co., Inc. Package for strand material. 3,127,990, 4–7–64, Cl. 206—52.
Krups, Robert: *See*—
Lovgren, Anders E. 3,154,297.
Kruse, Carl W., and R. F. Kleinschmidt, to Phillips Petroleum Co. Method for hydrogenating tertiary acetylenic amines. 3,121,747, 2–18–64, Cl. 260—583.
Kruse, Carl W., and R. F. Kleinschmidt, to Phillips Petroleum Co. Products for the reaction of alkynes and secondary amines. 3,137,729, 6–16–64, Cl. 260—583.
Kruse, Fred W., Jr., to Alfred Electronics. Alternating current voltage regulator. 3,160,808, 12–8–64, Cl. 323—22.
Kruse, Frederick W., Jr., and B. A. Wambsganss, to Alfred Electronics. Continuously variable microstrip attenuator using directional coupler. 3,121,848, 2–18–64, Cl. 333—10.
Kruse, Frederick W., Jr., and R. H. Britton, Jr., to Alfred Electronics. System for modulating power level of microwave oscillators. 3,145,351, 8–18–64, Cl. 332—39.
Kruse, Georg. Process for the preparation of a ready-for-use preserved food made from fresh onions. 3,138,464, 6–23–64, Cl. 99—154.
Kruse, Harold L., W. H. King, W. T. Hardison, and R. L. Jones, to Bourns, Inc. Miniature multi-turn variable resistor. 3,139,601, 6–30–64, Cl. 338—143.
Kruse, Howard W.: *See*—
McBride, William R., and Kruse. 3,135,800.
Kruse, Jurgen M.: *See*—
Arnold, Charles, Jr., and Kruse. 3,125,538.
Arnold, Charles, Jr., Kruse, and Reilly. 3,157,688.
Huntley, Earl B., Kruse, and Way. 3,141,902.
Kruse, Jurgen M., to E. I. du Pont de Nemours and Co. Process for extracting beryllium values from ores. 3,148,-022, 9–8–64, Cl. 23—15.
Kruse, Otto, to Wilhelm Fette Firma. Machine tool cutter and process for assembling the same. 3,162,928, 12–29–64, Cl. 29—105.
Kruse, William P., and J. McConnell, to Admiral Corp. Velocity determining device. 3,122,740, 2–25–64, Cl. 343—8.
Krüssmann, Adolf, and E. Freitag, to Schoppe & Faeser G.m.b.H. Transducer with square root extraction. 3,134,-261, 5–26–64, Cl. 73—398.
Kruzic, John F.: *See*—
Dambrogio, Edward J., and Kruzic. 3,131,636.
Krynock, John, to Radio Corp. of America. Method of fabricating semiconductor devices. 3,122,464, 2–25–64, Cl. 156—17.
Krynski, John E., to Ametek, Inc. Filter. 3,143,502, 8–4–64, Cl. 210—401.
Krysmanski, Reiner, to Siemens-Schuckertwerke Aktiengesellschaft. Semiconductor rectifier device, particularly of miniature type. 3,122,685, 2–25–64, Cl. 317—234.
Krystyniak, Casimer W., A. T. Muccigrosso, and G. L. Ploetz, to United States of America, Atomic Energy Commission. Production of round particles of ceramic material. 3,146,-281, 8–25–64, Cl. 264—21.
Kryszczuk, Edward. Turbine blade cutting tool attachment. 3,143,923, 8–11–64, Cl. 90—31.
Kryzer, Benjamin H., to Union Tank Car Co. Filters. 3,152,-077, 10–6–64, Cl. 210—233.
Krzewina, Thomas, to General Electric Co. Conjointly operated coupling and vent valve. 3,124,157, 3–10–64, Cl. 137—583.
Kubak, Hubert A. Light mounting fixture. 3,158,328, 11–24–64, Cl. 240—16.
Kubelka, Alois, and V. Svoboda, to Sdruzeni podniku textilniho strojirenstvi. Pneumatic device for inserting weft threads in warp loops of warp knitted fabric. 3,134,248, 5–26–64, Cl. 66—125.
Kubica, Andrew J.: *See*—
Dryden, Hugh L. 3,135,089.
Kubichan, Robert E.: *See*—
Ritenour, Gerald L., and Kubichan. 3,155,485.
Kubie, William L., to United States of America, Agriculture. Linseed oil emulsion compositions comprising dipicolinate and linseed oil-derived emulsifiers. 3,140,191, 7–7–64, Cl. 106—254.
Kubik, Clayton J. Bowling glove. 3,123,832, 3–10–64, Cl. 2—161.
Kubisch, Joachim: *See*—
Gruneberg, Gerhard, Kubisch, and Spengler. 3,121,031.
Kubisiak, Bernard G., to Allis-Chalmers Mfg. Co. Method of forming wound magnetic cores. 3,126,620, 3–31–64, Cl. 29—155.57.
Kubit, Ted J., and W. S. Stanton. Automatically-inflatable life preserver. 3,127,624, 4–7–64, Cl. 9—317.

Kubit, Ted J., and W. S. Stanton. Quick-acting clamping handle for disposable liquid applicators. 3,137,880, 6–23–64, Cl. 15—244.
Kubit, Theofile T. Means for launching space vehicles. 3,122,057, 2–25–64, Cl. 89—1.7.
Kubler, Donald G.: *See*—
Montagna, Amelio E., and Kubler. 3,121,120.
Kubler, Kurt: *See*—
Fabregat, Adolfo L., and Pol Quintana. 3,135,159.
Kubota, Shoshichi. Animal cage with feed and water supply means. 3,126,866, 3–31–64, Cl. 119—18.
Kubota, Tadashi: *See*—
Takahashi, Shuichiro, Hondo, Ishikawa, Uchikoshi, and Kubota. 3,124,875.
Kubota, Takeo: *See*—
Nakane, Takashi, Kubota, and Umezawa. 3,135,624.
Kucera, Joseph B. Trap for animal flies. 3,141,444, 7–21–64, Cl. 119—156.
Kucera, Joseph B., ⅓ to R. L. Lowell, and ⅓ to E. M. McElhinney. Material handling apparatus. 3,150,885, 9–29–64, Cl. 280—479.
Kuchar, Anton, and O. Heyd, to Mauz & Pfeiffer. Device for adjusting the protective rubber strip of waxing machines. 3,148,397, 9–15–64, Cl. 15—49.
Kucharski, Richard W.: *See*—
Lorimer, John D., Schuch, and Kucharski. 3,120,785.
Kuchas, Francis C., to Bell Telephone Laboratories, Inc. Signal converter circuit. 3,133,155, 5–12–64, Cl. 179—18.
Kuchek, Henry A., to The Dow Chemical Co. Method of producing clad porous metal articles. 3,138,856, 6–30–64, Cl. 29—423.
Kuchek, Henry A., to The Dow Chemical Co. Method of producing clad porous metal articles. 3,138,857, 6–30–64, Cl. 29—423.
Kuchenbecker, Karl. Tethering halter. 3,133,525, 5–19–64, Cl. 119—119.
Kucher, Andrew A., to Ford Motor Co. Aircraft. 3,126,169, 3–24–64, Cl. 244—12.
Kuchinsky, Saul, R. A. Cola, and S. R. Shaw, to Burroughs Corp. Signal converters. 3,121,219, 2–11–64, Cl. 340—347.
Kuchler, Abraham, to The American Hardware Corp. Lockout mechanism for lock sets. 3,125,876, 3–24–64, Cl. 70—146.
Kuchta, William J.: *See*—
Tift, Leo R., Karpus, Kuchta, and Hatch. 3,142,490.
Kuck, James C.: *See*—
Pons, Walter A., Jr., Kuck, and Frampton. 3,158,578.
Kuck, John H., to United States of America, Navy. Means for tracking multiple target formations by radar. 3,130,402, 4–21–64, Cl. 343—7.4.
Kuck, John H.: *See*—
Dell, Albert H., Kuck, and Sreb. 3,143,072.
Kuck, John H., and R. H. Thayer, to United States of America, Navy. Noise discrimination control circuit utilizing a volume control thermionic amplifier circuit. 3,117,284, 1–7–64, Cl. 328—165.
Kuckens, Alexander, and W. Niehaus. Method and means for mounting and controlling peltier elements. 3,139,734, 7–7–64, Cl. 62—3.
Kuckertz, Josef: *See*—
Pützler, Friedrich, and Kuckertz. 3,124,063.
Kuckhoff, Ferdinand A.: *See*—
Noland, Royce P., and Kuckoff. 3,127,171.
Kuclar, Matthew A.: *See*—
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Kudalis, Edwin J. Readily adjustable snap-action switch. 3,157,759, 11–17–64, Cl. 200—67.
Kudelka, Vitezslav, to F. W. Berk & Co. Ltd. Nozzles for flame spraying pistols. 3,140,826, 7–14–64, Cl. 239—79.
Kudelko, Arthur G., to Standard Pressed Steel Co. Fusion cladding technique and product. 3,139,511, 6–30–64, Cl. 219—76.
Kudelko, Arthur G., to Honeywell Inc. Radiation pyrometer. 3,162,045, 12–22–64, Cl. 73—355.
Kuderna, Jerome G., Jr., and D. D. Phillips, to Shell Oil Co. 3,4,5-trimethylphenyl methylcarbamate and its use as an insecticide. 3,130,122, 4–21–64, Cl. 167—30.
Kudlaty, Walter J.: *See*—
Flick, Francis S., Wilkes, and Kudlaty. 3,141,008.
Kudriavetz, Peter, Jr., to Acushnet Process Co. Resilient chair support. 3,117,819, 1–14–64, Cl. 297—452.
Kudritzki, Hans: *See*—
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Kudryashov, Ivan N.: *See*—
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Kuebrich, Herbert P., and J. S. Petro, Jr., to General Electric Co. Coating refractory metals. 3,147,547, 9–8–64, Cl. 29—528.
Kuechenmeister, Alfred J. Coupon ejector. 3,156,380, 11–10–64, Cl. 222—41.
Kuechenmeister, Alfred J. Gravity ejector for invertible container. 3,156,386, 11–10–64, Cl. 222—372.
Kuehl, Donald K., to United Aircraft Corp. Solid propellants. 3,133,841, 5–19–64, Cl. 149—5.
Kuehl, Donald K., to United Aircraft Corp. Propellant compositions containing oxyphylic and halophylic metals propellant. 3,133,842, 5–19–64, Cl. 149—19.
Kuehl, Donald K., and R. L. Vasquez, to United Aircraft Corp. Method and means for improving combustion characteristics of solid propellants. 3,129,562, 4–21–64, Cl. 60—35.6.
Kuehler, Jack D., to International Business Machines Corp. Apparatus for reading magnetic or electrostatic bits. 3,124,790, 3–10–64, Cl. 340—174.1.
Kuehler, Jack D., to International Business Machines Corp. Apparatus for printing by means of an electron beam. 3,157,879, 11–17–64, Cl. 346—74.
Kuehn, Andrew, III, to Honeywell Inc. Semiconductor apparatus. 3,151,281, 9–29–64, Cl. 317—130.
Kuehn, Harry E. Closure assembly. 3,136,439, 6–9–64, Cl. 215—39.
Kuehn, Karl H.: *See*—
Haen, Eugene P., Kuehn, and Romig. 3,134,478.
Kuehne, Christoph, to Keuffel & Esser Co. Photosensitive electro-optical micrometers for rotary axles. 3,116,886, 1–7–64, Cl. 250—231.
Kuehne, Alfred K., to Fibercraft Products, Inc. Plastic filter frame. 3,142,550, 7–28–64, Cl. 55—495.
Kuehne, Martin E., to Ciba Corp. 6 acylamino-3 cyclohexyl [1,3] benzoxazines. 3,133,919, 5–19–64, Cl. 260—244.
Kuehne, Martin E., to Ciba Corp. 1-(pyridyl-lower alkyl)-1,2,3,4-tetrahydroisoquinolines. 3,133,926, 5–19–64, Cl. 260—286.
Kuehne, Martin E., to Ciba Corp. Pyrano-benzoxazines. 3,142,676, 7–28–64, Cl. 260—244.
Kuehns, Ernst G.: *See*—
Wershaw, Irving B., and Kuehns. 3,133,862.
Kueny, Kenneth E., to Johnson Products, Inc. Method of making a casting. 3,122,822, 3–3–64, Cl. 29—156.7.
Kuepfer, Matthew C.: *See*—
Sohn, John P., and Kuepfer. 3,157,776.
Kuerston, Richard D., to Phillips Petroleum Co. Two phase fluid heat exchanger. 3,158,010, 11–24–64, Cl. 62—525.
Kuerzel, Robert E., to General Electric Co. Control of single cycle power system having a steam generating reactor. 3,128,233, 4–7–64, Cl. 176—24.
Kueser, John J., to Knapp-Monarch Co. Heating element and mounting for radiant heaters. 3,119,924, 1–28–64, Cl. 219—34.
Kueser, John J., to Knapp-Monarch Co. Automatic toaster. 3,129,652, 4–21–64, Cl. 99—329.
Kuester, Frank E.: *See*—
Findley, Thomas W., Ohlson, and Kuester. 3,155,696.
Kuester, Frank E., to Swift & Co. Dioxolated fatty acid esters. 3,127,418, 3–31–64, Cl. 260—340.9.
Kueter, Kenneth E., to Abbott Laboratories. Veterinary anti-diarrhea composition. 3,137,619, 6–16–64, Cl. 167—53.
Kuether, Oscar F. Container. 3,134,630, 5–26–64, Cl. 312—272.5.
Kuffer, Fernand B.: *See*—
Gardner, Douglas B., and Kuffer. 3,145,339.
Kuffer, Fernand B., and R. A. Dora, to Beckman Instruments, Inc. Gas chromatograph integrated valve. 3,150,517, 9–29–64, Cl. 73—23.1.
Kugel, Fritz, to J. M. Voith, G.m.b.H. Self-propelled vehicle, especially rail vehicle. 3,160,116, 12–8–64, Cl. 105—96.2.
Kugel, Fritz, to J. M. Voith, G.m.b.H. Torque converter with symmetrical blading, mechanical clutch, and means to fill and partially empty the working chamber. 3,163,269, 12–29–64, Cl. 192—3.2.
Kugel, Fritz, and M. Schrag, to Voith-Getriebe KG. Internal combustion engine driven rail vehicle. 3,163,126, 12–29–64, Cl. 105—96.2.
Kugelfischer Georg Schafer & Co.: *See*—
Dorner, Harro G. W. 3,149,886.
Gassner, Hans, and Lang. 3,142,953.
Kirchner, Willi, and Braune. 3,158,942.
Kughler, Edwin R. Attachments for lift trucks. 3,126,223, 3–24–64, Cl. 294—103.
Kugler, Emanuel. Bag. 3,117,712, 1–14–64, Cl. 229—62.
Kugler, Simon, to The British Oxygen Co. Ltd. Liquid oxygen system for passenger aircraft. 3,152,589, 10–13–64, Cl. 128—186.
Kugler, Walter. Bogie mounting arrangement. 3,150,611, 9–29–64, Cl. 105—199.
Kuhagen, Fred W., to Supreme Products Corp. Adapter for stator assemblies to concentrate the flux paths therefrom. 3,134,034, 5–19–64, Cl. 310—19.
Kuhar, Ludwig J., to The Singer Co. Rotary hook with thread and needle guard for sewing machines. 3,151,589, 10–6–64, Cl. 112—228.
Kuhar, William A., and E. T. Carlson, to Cutler-Hammer, Inc. Bus duct. 3,140,345, 7–7–64, Cl. 174—99.
Kuhl, Bernard R., and J. A. Carlson, to Warwick Electronics, Inc. Automatic television channel selector. 3,161,815, 12–15–64, Cl. 318—467.
Kühle, Engelbert: *See*—
Malz, Hugo, Bayer, Freytag, and Kühle. 3,135,735.
Kuhle, Engelbert, R. Wegler, and L. Eue, to Farbenfabriken Bayer Aktiengesellschaft. Urea dihalides and process for the production thereof. 3,117,997, 1–14–64, Cl. 260—570.5.
Kuhle, Engelbert, and L. Eue, to Farbenfabriken Bayer Aktiengesellschaft. Dialkylaminoaryl arylcarbamates. 3,125,598, 3–17–64, Cl. 260—471.
Kuhlman Instrument Co.: *See*—
Kuhlman, Walter F. 3,132,505.
Kuhlman, Joseph. Game device comprising a game piece rack with shelves and a game piece container with an opening covered by a slit diaphragm. 3,116,927, 1–7–64, Cl. 273—135.
Kuhlman, Ora F., to Key Resistor Corp. Micro potentiometer. 3,132,321, 5–5–64, Cl. 338—174.

Kuhlman, Walter F., to Kuhlman Instrument Co. Testing device. 3,132,505, 5–12–64, Cl. 73—40.
Kuhlmann, Etablissements: *See*—
Lenoir, Maurice A. J., and Maigrot. 3,161,633.
Nordmann, Joseph. 3,159,538.
Kuhlmann, Franz, K.G.: *See*—
Fuchs, Hans-Gerhard. 3,137,944.
Kuhn, Beryl M.: *See*—
Levine, Max, and Kuhn. 3,159,449.
Kuhn, Clarence W., and T. F. Rosing, to Cutler-Hammer, Inc. Shockproof electromagnetic contactor having arc chute and blowout assembly and pivoted contact carriage means. 3,133,175, 5–12–64, Cl. 200—147.
Kuhn, Clarence W., and C. R. Smith, to Cutler-Hammer, Inc. Thermostatic control switches for refrigerators and the like. 3,135,849, 6–2–64, Cl. 200—140.
Kuhn, Edmund W.: *See*—
Rose, Merrill W., and Kuhn. 3,148,349.
Kuhn, Eugen, to Olympia Werke AG. Arrangement for aligning ordinal elements for a division. 3,140,823, 7–14–64, Cl. 235—60.
Kuhn, Hans H.: *See*—
Gale, Donald J., and Kuhn. 3,154,534.
Kuhn, Hans H., to Deering Milliken Research Corp. Polyethylenoxy fugitive tints. 3,157,633, 11–17–64, Cl. 260—200.
Kuhn, Hans H., and M. A. Thomas, to Deering Milliken Research Corp. Novel fabric and process. 3,141,810, 7–21–64, Cl. 161—91.
Kuhn, Henry S., to Rotherm Engineering Co., Inc. Methods of making conduit expansion joints. 3,162,940, 12–29–64, Cl. 29—421.
Kuhn, James O., to Kenner Products Co. Construction toy comprising means for locking a horizontal beam member between two detachably joined vertical column members. 3,132,443, 5–12–64, Cl. 46—28.
Kuhn, James O., to Kenner Products Co. Musical toy. 3,154,995, 11–3–64, Cl. 84—381.
Kuhn, John. Automatic check valve. 3,118,467, 1–21–64, Cl. 137—512.1.
Kuhn, Kurt W., and H. H. Ast, to Radar Relay, Inc. Multicolor indicator. 3,119,997, 1–28–64, Cl. 340—366.
Kuhn, Paul, to Pathe Equipment Co., Inc. Multi-needle frame quilter sewing machine. 3,147,720, 9–8–64, Cl. 112—117.
Kuhn, Ralph F., Jr., to United States of America, National Aeronautics and Space Administration. Universal restrainer and joint. 3,132,479, 5–12–64, Cl. 60—35.55.
Kuhn, Robert E., and P. F. Rose, to Somatex Inc. Constant tension servo system for dyeing jigs. 3,161,371, 12–15–64, Cl. 242—75.43.
Kuhn, Stephen J.: *See*—
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Kuhne, Bryan F.: *See*—
Clary, Hugh L., Kuhne, and Christoff. 3,132,582.
Clary, Hugh L., Kuhne, and Christoff. 3,151,546.
Oldenburg, Kenneth F., Scozzafava, Mark, and Kuhne. 3,136,482.
Oldenburg, Kenneth F., Scozzafava, Mark, and Kuhne. 3,159,338.
Kuhne, Bryan F., to Addmaster Corp. Printing ribbon mechanism. 3,146,708, 9–1–64, Cl. 101—336.
Kuhne, Gerhard, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of vinyl chloride polymers and copolymers having improved processing properties. 3,161,623, 12–15–64, Cl. 260—92.8.
Kühner, Ernst E.: *See*—
Maier, Hartmut W., and Kühner. 3,124,272.
Kuhner, Max H., to Riley Stoker Corp. Steam generating unit. 3,117,560, 1–14–64, Cl. 122—478.
Kuhner, Max H., to Riley Stoker Corp. Regenerative air heater. 3,126,945, 3–31–64, Cl. 165—6.
Kuhner, Max H., to Riley Stokey Corp. Steam generating unit. 3,157,163, 11–17–64, Cl. 122—235.
Kuhner, Max H., to Riley Stoker Corp. Furnace. 3,160,146, 12–8–64, Cl. 122—478.
Kuhnis, Hans H.: *See*—
Denss, Rolf, Kuhnis, and Eugster. 3,161,647.
Kuhnis, Hans H., R. Denss, and C. H. Eugster, to Geigy Chemical Corp. Analgetic compositions containing tetrahydropyridines. 3,144,388, 8–11–64, Cl. 167—65.
Kuhnl, Leopold K., to Eversharp, Inc. Razor blade dispenser. 3,126,091, 3–24–64, Cl. 206—16.
Kuhnle, Ernst, and J. Schwarz, to Wilhelm Kraut, Bizerba-Werke, KG. Inclination balance with weight-sensing device. 3,129,879, 4–21–64, Cl. 235—61.
Kuhnle, Kopp & Kausch, Aktiengesellschaft: *See*—
Schwarz, Gottfried. 3,162,421.
Kuhnle, Paul, to Fr. Hesser, Maschinenfabrik-Aktiengesellschaft, Firma. Conveyor apparatus in packaging machines. 3,128,881, 4–14–64, Cl. 209—121.
Kuhrt, Friedrich: *See*—
Brunner, Julius, Kuhrt, and Rainer. 3,158,756.
Kuhrt, Friedrich, and G. Stark, to Siemens-Schuckertwerke Aktiengesellschaft. Hall-effect magnetic transducer. 3,146,317, 8–25–64, Cl. 179—100.2.
Kuhrt, Friedrich, W. Engel, and C. Wolf, to Siemens-Schuckertwerke Aktiengesellschaft. Sound-track reproducer for motion-picture projectors. 3,146,318, 8–26–64, Cl. 179—100.2.
Kuhrt, Friedrich, and G. Stark, to Siemens-Schuckertwerke Aktiengesellschaft. Transducer for magnetic recordings. 3,163,721, 12–29–64, Cl. 179—100.2.
Kuhrt, Wesley A., to United Aircraft Corp. Collector for neutral particles. 3,130,542, 4–28–64, Cl. 60—35.5.
Kuiken, Sam E. Spray head assembly. 3,116,880, 1–7–64, Cl. 239—539.
Kuiper, Dan B.: *See*—
Donley, Carson O., Kuiper, Scheibe, and Morgan. 3,157,066.
Kuipers, Arie: *See*—
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Kuipers, John J., and C. Gyure, to Goodman Mfg. Co. Load control for cutting apparatus. 3,162,249, 12–22–64, Cl. 173—7.
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Kuisti, John H.: *See*—
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Kujawski, Edmund: *See*—
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Kukasch, Herbert L.: *See*—
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Freericks, Lambert, Kukasch, and Luzon. 3,156,773.
Kukin, Ira, and T. Durbak, to Sonneborn Chemicals and Refining Corp. Cutting fluid preparation. 3,117,930, 1–14–64, Cl. 252—33.3.
Kukulski, Sigmund R., to Sunbeam Corp. Electromagnetic motor having oppositely oscillating armature. 3,144,571, 8–11–64, Cl. 310—29.
Kulacik, Louis: *See*—
Geiger, Wallace A., and Kudlacik. 3,139,259.
Kulak, John: *See*—
Northcote, John A., Kulak, and Spicer. 3,121,302.
Kulbicki, Georges, and F. Lazarre, to Societe Anonyme dite: Societe Nationale des Petroles d'Aquitaine. Dispensing apparatus. 3,149,750, 9–22–64, Cl. 221—224.
Kulcsar, Frank, and B. Jaffe, to Clevite Corp. Barium-containing lead titanate ferroelectric compositions and articles. 3,144,411, 8–11–64, Cl. 252—62.9.
Kulczycki, Karol, to Walter Kidde & Co. Warp knitting machine. 3,148,519, 9–15–64, Cl. 66—86.
Kulesh, Eugene W., R. S. Lanier, and R. J. Helgerud, to Washington Scientific Industries, Inc. Gear hobbing machines. 3,130,642, 4–28–64, Cl. 90—1.4.
Kulesza, Stanley, R. F. Voldstad, and G. A. Kahn, to Maxson Electronics Corp. Delayed arming mechanism. 3,136,253, 6–9–64, Cl. 102—79.
Kulhánek, Karel: *See*—
Kořenek, Jan, and Kulhánek. 3,158,065.
Kulick, Edward L., Sr. Shock absorbing bumper for boats and docks. 3,145,685, 8–25–64, Cl. 114—220.
Kulicke, Frederick W., Jr., to Kulicke & Soffa Mfg. Co. Fine wire manipulator and bonding instrument for transistors. 3,149,510, 9–22–64, Cl. 78—82.
Kulicke, Frederick W., Jr., G. H. Schwalm, and R. Ullman, to AMP Inc. Assembling and crimping apparatus. 3,155,138, 11–3–64, Cl. 153—1.
Kulicke & Soffa Mfg. Co.: *See*—
Kulicke, Frederick W., Jr. 3,149,510.
Kulieke, Frederick C., to Amsted Industries Inc. Railway car coupler. 3,123,226, 3–3–64, Cl. 213—19.
Kuliecke, Frederick C., to Amsted Industries Inc. Railway car coupler. 3,123,227, 3–3–64, Cl. 213—87.
Kulieke, Frederick C., to Amsted Industries Inc. Rotary coupler arrangement. 3,157,290, 11–17–64, Cl. 213—62.
Kulieke, Frederick C., and L. G. Wisler, to Amsted Industries Inc. Railway couplers. 3,133,646, 5–19–64, Cl. 213—154.
Kulieke, Frederick C., and K. V. Livelsberger, to Amsted Industries, Inc. Transition coupling means. 3,145,852, 8–25–64, Cl. 213—112.
Kulieke, Frederick C., and K. V. Livelsberger, to Amsted Industries Inc. Rotary coupler. 3,157,291, 11–17–64, Cl. 213—62.
Kulieke, Frederick C., Jr., and K. V. Livelsberger, to American Steel Foundries. 3,127,023, 3–31–64, Cl. 213—103.
Kulifay, Stanley M.: *See*—
Epstein, Arnold, and Kulifay. 3,132,488.
Kulig, Francis V., to Federal Paper Board Co., Inc. Article carrier. 3,123,213, 3–3–64, Cl. 206—65.
Kulik, Alphonse C., and R. W. Bradley, to United Shoe Machinery Corp. Sole fitting machines. 3,137,154, 6–16–64, Cl. 69 –6.5
Kulik, Metro D., to Consolidation Coal Co. Methanol extraction of low-temperature tar. 3,153,626, 10–20–64, Cl. 208—22.
Kulka, Thomas S. Tape reel closure and tape retaining means. 3,124,243, 3–10–64, Cl. 206—53.
Kulka, Thomas S. Combined housing and retaining means for reels of tape. 3,125,215, 3–17–64, Cl. 206—52.
Kulka, Thomas S. Combined reel housing and tape retaining means. 3,125,216, 3–17–64, Cl. 206—52.
Kulka, Thomas S. Retaining means for tape wound on reels. 3,125,219, 3–17–64, Cl. 206—59.
Kulka, Thomas S. Combined reel chest and tape retaining means. 3,125,220, 3–17–64, Cl. 206—59.
Kull, Albert R., to The Ajax Mfg. Co. Forging machine die mechanism with additional blank gripping means. 3,124,816, 3–17–64, Cl. 10—12.
Kull, Albert R., to The Ajax Mfg. Co. Die lifter. 3,135,397, 6–2–64, Cl. 214—1.

Kull, Albert R., to The Ajax Mfg. Co. Multiple station forging machine with means to feed and transfer blanks. 3,149,353, 9–22–64, Cl. 10—12.
Kull, Albert R., to The Ajax Mfg. Co. Safety device for forging machines. 3,150,391, 9–29–64, Cl. 10—23.
Kull, George F.: *See*—
Bourns, Marlan E., Harrison, Hardison, Gaa, and Kull. 3,161,849.
Kull, Leo. Incremental servo mechanism. 3,124,967, 3–17–64, Cl. 74—157.
Kull, Leo. Card controlled program device. 3,125,672, 3–17–64, Cl. 235—61.11.
Kulla, George R., to U.S. Material Handling & Research Co., Inc. Bulk material loading and trimming machine. 3,136,405, 6–9–64, Cl. 198—128.
Kulleseid, Ludvik E. Carton closing machine. 3,137,112, 6–16–64, Cl. 53—376.
Kullgren, Gilbert V., D. W. Stephenson, W. J. Goodwin, H. G. Bailey, and R. J. Schroyer, to Blaw-Knox Co. Induction heated extruder. 3,129,459, 4–21–64, Cl. 18—12.
Kullmann, Donald J., to Badger Meter Mfg. Co. Bearing structure for fluid meter. 3,116,640, 1–7–64, Cl. 73—258.
Kumagai, Ko., and H. Teramura, to Kokusai Denshin Denwa Kabushiki Kaisha. Phase control system. 3,163,715, 12–29–64, Cl. 178—23.
Kumagai, Takashi. Record-retaining material of helical configuration. 3,160,466, 12–8–64, Cl. 346—137.
Kumai, Akira: *See*—
Miura, Yoshio, Nishio, and Kumai. 3,137,577.
Kumamoto, Tokuji, K. Abe, H. Fukui, and Y. Miyamoto, to Yawata Iron & Steel Co., Ltd. Process for treating feed water. 3,132,013, 5–5–64, Cl. 55—53.
Kumano, Masao: *See*—
Takagi, Masateru, and Kumano. 3,134,977.
Kumano, Masao, to Nippon Electric Co. Ltd. Signal direction finder system. 3,130,408, 4–21–64, Cl. 343—113.
Kumezawa, Ikuro, to N.H.K. Spring Co., Ltd. Composed catenary overhead contact wire systems. 3,128,858, 4–14–64, Cl. 191—41.
Kumferman, Robert P., to Renner Mfg. Co. Vehicular steering. 3,160,223, 12–8–64, Cl. 180—79.2.
Kumm, Emerson L.: *See*—
Cain, Earl S., Jr., Bosco, Kumm, and Green. 3,147,951.
Kumm, William H., and W. L. Letsch, to United States of America, Air Force. Subminiature variable capacitor. 3,157,834, 11–17–64, Cl. 317—249.
Kummer Freres S.A. Fabrique de Machines: *See*—
Kummer, Pierre. 3,161,096.
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Kummer, Joseph T., to The Dow Chemical Co. Production of small particle size catalytic grade, titanium tribromide or trichloride. 3,118,729, 1–21–64, Cl. 23—87.
Kummer, Joseph T., to The Dow Chemical Co. Method of making aldehydes and ketones. 3,133,968, 5–19–64, Cl. 260—597.
Kummer, Pierre, to Kummer Freres S.A. Fabrique de Machines. Device for adjusting the working position of tools in a machine tool. 3,161,096, 12–15–64, Cl. 82—24.
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Kummerman, Henri, to International MacGregor Organization (I.M.G.O.). Retractable toggle clamp. 3,119,636, 1–28–64, Cl. 292—256.5.
Kummerman, Henri, to International MacGregor Organization (I.M.G.O.). Method and means for closing and locking movable panels and retractable bearing members, notably for sheds, shipholds and the like. 3,155,068, 11–3–64, Cl. 114—203.
Kummerman, Henri, and G. J. M. Proust, to International MacGregor Organization (I.M.G.O.). Coiling shutter. 3,142,333, 7–28–64, Cl. 160—272.
Kumnick, Miles C., to E. I. du Pont de Nemours and Co. Manufacture of polytetrafluoroethylene powders. 3,152,201, 10–6–64, Cl. 264—118.
Kump, Herbert J., to International Business Machines Corp. Magnetic eraser. 3,156,784, 11–10–64, Cl. 179—100.2.
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Kumpf, Hermann, to Siemens-Schuckertwerke Aktiengesellschaft. Electromagnetic apparatus for transmitting motion from the outside to a rod-shaped member within a tubular housing. 3,132,290, 5–5–64, Cl. 317—123.
Kumpf, Hermann, and H. Kröpfl, to Siemens-Schuckertwerke Aktiengesellschaft. Neutronic reactor fuel elements. 3,137,638, 6–16–64, Cl. 176—78.
Kuna, Samuel, and A. W. Pircio, to Bristol-Myers Co. Process for analgesia and muscle relaxation by glycerol guiaiacolate and salicylamide. 3,140,228, 7–7–64, Cl. 167—55.
Kundikoff, Peter. Ventilating construction for a chick box. 3,126,867, 3–31–64, Cl. 119—19.
Kundrach, Steve W., W. A. Hofmann, and J. Fisher, to The Warner & Swasey Co. Selvage forming mechanism for weaving machines. 3,153,430, 10–20–64, Cl. 139—126.
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Kunetka, Lawrence S. Structure for mounting rubber printing plates for printing on corrugated board and the like. 3,119,330, 1–28–64. Cl. 101—382.
Kunetka, Lawrence S., to Jefferson State Bank. Structure for mounting rubber printing plates for printing on corrugated and the like board. 3,128,700, 4–14–64, Cl. 101—379.
Kunetka, Robert E., V. N. Bednarski, B. H. Towell, and C. D. Woodward, to Texaco Inc. Electrical borehole heater. 3,131,763, 5–5–64, Cl. 166—60.
Kunin, Robert, to Rohm & Haas Co. Pharmaceutical purification process. 3,147,245, 9–1–64, Cl. 260—210.
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Kunreuther, Frederick, W. A. Dick, and D. C. Hausch, to Shell Oil Co. Distributing vapor-liquid feed to beds. 3,146,189, 8–25–64, Cl. 208—146.
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Kuntz, Irving, to Esso Research and Engineering Co. Polymerization of aryllithium-titanium trihalide catalysts. 3,155,641, 11–3–64, Cl. 260—937.
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Kuntzmann, Paul L. E., to Compagnie des Transmissions Mecaniques Seine-Doubs. Steel transmission chain. 3,136,664, 6–9–64, Cl. 148—34.
Kuntzmann, Paul L. E., to Compagnie Transmissions Mecaniques Seine-Doubs-Isere. Transmission chain. 3,153,348, 10–20–64, Cl. 74—255.
Kunugi, Taiseki, and N. Negishi, to Messrs. Kogyokaihatsu, Kenkyusho. Process for production of acetylene by thermal decomposition of hydrocarbons. 3,129,266, 4–14–64, Cl. 260—679.
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Kunz, Max, to Raytheon Co. Protective device. 3,143,688, 8–4–64, Cl. 317—40.
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Kunze, Bernhard, to Wilhelm Hegenscheidt Kommanditgesellschaft. Machine for burnishing an elongated workpiece. 3,136,029, 6–9–64, Cl. 29—90.
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Kunzmann, Ludwig, to Rodi & Wienenberger Aktiengesellschaft. Elastic link straps. 3,138,917, 6–30–64, Cl. 59—79.

Kunzmann, Ludwig, and W. Wolf, to Rodi & Wienenberger Aktiengesellschaft. Expansible link strap. 3,132,470, 5–12–64, Cl. 59—79.
Kunzog, Theodore W., to General Motors Corp. Internal combustion engine. 3,153,990, 10–27–64, Cl. 92—169.
Kuo, Chen W. Developing apparatus using the spray of developer. 3,116,676, 1–7–64, Cl. 95—89.
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Kuper, Donald G., to Shell Oil Co. Stabilization of ketones. 3,137,732, 6–16–64, Cl. 260—593.
Kupfer, Otto A., Jr., to Ken-Ray Brass Products, Inc. Automatic primer valve for sealing floor drain traps and the like. 3,146,787, 9–1–64, Cl. 137—118.
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Kupferschmid, Marc, to ACIC Arnold Chapilloz Bevillard, Etablissements. Apparatus for use in supporting syringe elements and the like within a washing drum. 3,141,468, 7–21–64, Cl. 134—142.
Kupits, John J., to Congoleum-Nairn Inc. Resinous molding composition. 3,129,194, 4–14–64, Cl. 260—28.5.
Kupka, John J., to Horn Pile & Foundation Corp. Power hammer. 3,138,068, 6–23–64, Cl. 91—235.
Kupka, John J., to Horn Pile & Foundation Corp. Air compressor with power increase and safety controls. 3,148,507, 9–15–64, Cl. 60—59.
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Kuppers, James R., to E. I. du Pont de Nemours and Co. Anti-static coating composition comprising styrene sulfonate-glycidyl methacrylate polymer and sodium bisulfite. 3,137,668, 6–16–64, Cl. 260—29.6.
Kuppers, Pierre G. M. H., to North American Philips Co., Inc. Method for cutting a molten glass stream. 3,160,493, 12–8–64, Cl. 65—133.
Kupski, Joseph, to The Chicago Hardware Foundry Co. Locking mechanism. 3,145,669, 8–25–64, Cl. 108—148.
Kuramoto, Saichiro, Y. Nishizawa, H. Sakamoto, and T. Mizutani, to Sumitomo Chemical Co., Ltd. O,O-dimethyl-o-(4-cyanophenyl) thionophosphate and insecticidal compositions and methods using same. 3,150,040, 9–22–64, Cl. 167—30.
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Kurhajec, George A., and F. N. Grimsby, to Shell Oil Co. Percarboxylic acid production employing a pre-treated dehydrated acid cation exchange resin. 3,140,312, 7–7–64, Cl. 260—502.
Kurihara, Michio, to Koshin Seimitsu Kaiki Kabushiki Kaisha. Pressure foot for sewing machines. 3,145,674. 8–25–64, Cl. 112—240.
Kurihara, Michinori. Apparatus for reducing the wave making resistance for boats. 3,125,977, 3–24–64, Cl. 114—67.
Kuriloff, Arthur H., to Non-Linear Systems Inc. Electrical trimming connector. 3,151,309, 9–29–64, Cl. 338—269.
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Kuris, Arthur, and L. Balamuth, to Cavitron Ultrasonics, Inc. Ultrasonic cleaning of grinding wheels. 3,123,951, 3–10–64, Cl. 51—262.
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Kurowski, Walter J., to Aluminum Refrigerator Door Co., Inc. Combination door check and door holder. 3,131,421, 5–5–64, Cl. 16—82.
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Kurt, Ewald H., and J. W. Adams, to Ingersoll-Rand Co. Gang drill. 3,144,086, 8–11–64, Cl. 175—96.
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Kneen, Eric, and Fleckenstein. 3,149,053.
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Kurtz, Cyrus B. Gearing apparatus. 3,151,495, 10–6–64, Cl. 74—413.
Kurtz, Israel, to Sperry Rand Corp. Welding system. 3,144,544, 8–11–64. Cl. 219—130.
Kurtz, John S., to Automatic Poultry Feeder Co. Egg protector. 3,118,425, 1–21–64, Cl. 119—48.
Kurtz, John S., and J. Graves, to Automatic Poultry Feeder Co. Nest support. 3,124,102, 3–10–64, Cl. 119—48.
Kurtz, Leonard D. Packaging surgical sutures. 3,147,861, 9–8–64, Cl. 206—63.3.
Kurtz, Walter M., to The Upjohn Co. Soft gelatin capsules. 3,126,321, 3–24–64, Cl. 167—83.
Kurtze, Günther, to Grunzweig and Hartmann AG. Sound absorber for gas conduits. 3,141,520, 7–21–64, Cl. 181—59.
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Kurzinski, Edward F., to Air Products and Chemicals, Inc. Open hearth furnaces and methods of operating the same. 3,150,963, 9–29–64, Cl. 75—60.
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Kusters, Norbert L., and O. Petersons, to National Research Council. High voltage alternating current capacitive measuring apparatus using magnetic cores. 3,142,015, 7–21–64, Cl. 324—60.
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Kusy, Paul F., to The Bendix Corp. Method for the halogenation of benzene. 3,128,240, 4–7–64, Cl. 204—154.
Kusznier, Steve. Means for dispensing straight pins. 3,134,502, 5–26–64, Cl. 221—74.
Kuthroff, Harry. Hand held plate glass cutter and support means therefor. 3,138,868, 6–30–64, Cl. 30—164.95.
Kutik, Leon, and K. H. Schmidt, to Interchemical Corp. Method of making pressed fiber board. 3,151,016, 9–29–64, Cl. 162—136.
Kutik, Louis F. Actuator for pressurized dispensing cans. 3,138,331, 6–23–64, Cl. 239—337.
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Kutner, Abraham, to Hercules Powder Co. Method of polymerization using a Grignard reagent/ketone catalyst complex to produce crystalline methacrylate polymers. 3,151,102, 9–29–64, Cl. 260—89.5.
Kutrz, Cyrus B. Method and means for belt lapping and finishing. 3,157,968, 11–24–64, Cl. 51—145.
Kuts, Mathew, to The B. F. Goodrich Co. Method of making elastomeric band tubing from flat sheeting. 3,136,675, 6–9–64, Cl. 156—203.
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Kuts, Richard M., to The B. F. Goodrich Co. Sheet duster. 3,125,465, 3–17–64, Cl. 118—244.
Kuts, Richard M., to The B. F. Goodrich Co. Apparatus for applying fabric cover strips to an elastomer hose tube. 3,139,367, 6–30–64, Cl. 156—461.
Kuts, Richard M., to The B. F. Goodrich Co. Hose making method. 3,140,213, 7–7–64, Cl. 156—202.
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Kuwata, Tsutomu, S. Takumi, and T. Hashimoto, to Nikki Kagaku Kabushiki Kaisha. Process for production of low-melting edible hardened oil. 3,129,235, 4–14–64, Cl. 260—409.
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Kuwertz, Erich, to G. M. Praff, Aktiengesellschaft. Conveyors. 3,163,283, 12–29–64, Cl. 198—38.
Kuyk, Aart K., to General Motors Corp. Dispensing unit. 3,123,118, 3–3–64, Cl. 150—34.
Kuykendall, Harold C., to Hiram Walker & Sons, Inc. Mechanism for forming tapered holes in barrels. 3,134,410, 5–26–64, Cl. 144—93.
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Kuzara, John C., to Landers, Frary & Clark. Mixer drive lock. 3,128,996, 4–14–64, Cl. 259—108.
Kuzell, Charles R., M. G. Fowler, J. H. Davis, Jr., L. Klein, and I. MacDougall, to Phelps Dodge Corp. Method for producing sponge iron. 3,125,439, 3–17–64, Cl. 75—7.
Kuzma, Edward J.: *See*—
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Kuzma, John J. Hose coupling. 3,129,959, 4–21–64, Cl. 285—74.
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Kuzmitz, Andrew A., to The Bendix Corp. Servo governor having emergency manual control means. 3,139,893, 7–7–64, Cl. 137—18.
Kuznetzoff, Philip, to Radio Corp. of America. Materials for and method of bonding. 3,140,536, 7–14–64, Cl. 29—473.1.
Kvello-Aune, Alf G., and P. F. Tröften, to Atlas Copco Atkiebolaget. Machine for rotary drilling. 3,131,776, 5–5–64, Cl. 173—149.
Kvetinskas, Bruno: *See*—
Pollitzer, Ernest L., and Kvetinskas. 3,158,579.
Kwantes, Arien: *See*—
Baijle, Gerhard G., and Kwantes. 3,130,241.
Kwartz, Michael J. Device for internal combustion engines. 3,116,726, 1–7–64, Cl. 123—119.
Kwasek, Stanley, to General Motors Corp. Convertible top latching mechanism. 3,135,541, 6–2–64, Cl. 292—64.
Kwatkosky, Harry R.: *See*—
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Kwestroo, Wim: *See*—
Braun, Poul B., and Kwestroo. 3,117,935.
Kwiatek, Jack, to General Electric Co. Oxidation of aryloxy-substituted phenols. 3,134,753, 5–26–64, Cl. 260—47.
Kwiatek, Jack, and J. K. Seyler, to National Distillers and Chemical Corp. Preparation of polyarylethers. 3,133,899, 5–19–64, Cl. 260—47.
Kwiatek, Jack, and I. L. Mador, to National Distillers and Chemical Corp. Reductive condensation process. 3,156,730, 11–10–64, Cl. 260—601.
Kwik-Lock Forms Co.: *See*—
Stockton, North J., and Pauli. 3,131,453.
Kwitek, Edwin M., to Paper Converting Machine Co. Apparatus for making cutouts from a traveling web. 3,147,656, 9–8–64, Cl. 83—116.
Kwong, Edward, and F. F. Liu, to Quantomics, Inc. Turbine flow measuring device. 3,135,116, 6–2–64, Cl. 73—231.
Kyhl, Robert L. Iris-loaded slow wave guide for microwave linear electron accelerator having irises differently oriented to suppress unwanted modes. 3,153,767, 10–20–64, Cl. 333—31.
Kyle, Frank A., M. N. Landis, T. A. Kelly, and E. S. Nachtman, to La Salle Steel Corp. Method of controlling residual stresses in materials during working. 3,157,274, 11–17–64, Cl. 205—26.
Kyle, Harold E., J. E. Knap, and E. C. Lindblad, to Union Carbide Corp. Oxo recovery process. 3,159,679, 12–1–64, Cl. 260—604.
Kyle, James C., and G. Robinson, to Physical Science Corp. Demodulator circuit. 3,145,344, 8–18–64, Cl. 328—134.
Kyle, John W., to United States of America, Navy. Radio proximity fuze. 3,152,547, 10–13–64, Cl. 102—70.2.
Kyle, Joseph H., to Armstrong Cork Co. Device for placing screens under tension. 3,139,400, 6–30–64, Cl. 209—403.
Kyle, William K., to Westinghouse Electric Corp. Controls for heat pumps. 3,128,607, 4–14–64, Cl. 62—158.
Kyle, William K., to Westinghouse Electric Corp. Controls for air coolers and dehumidifiers. 3,155,156, 11–3–64, Cl. 165—21.
Kylin, Anne: *See*—
Kylin, Hjalmar, and A. 3,128,665.
Kylin, Hjalmar and A. Musical note meter. 3,128,665, 4–14–64, Cl. 84—484.
Kyowa Hakko Kogyo Co., Ltd.: *See*—
Kamata, Hideo, Maurta, Hattori, Ueyama, Asano, Matsuado, and Kawasaki. 3,147,302.
Kinoshita, Shukuo, Abe, Udagawa, Saito, and Takayama. 3,152,966.
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Kyryluk, William F. Solar motor. 3,137,125, 6–16–64, Cl. 60—26.
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Kyte, John R., and V. O. Naumann, to Jersey Production Research Co. Recovery of oil from watered-out reservoirs. 3,123,134, 3–3–64, Cl. 166—2.
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Techler, Thomas W. 3,118,610.
L. B. Products Co.: *See*—
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Messina, Giuseppe, De Pisapia, Spano, and Condurelli. 3,156,741.
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Laa, Friedrich, to North American Philips Co., Inc. Device comprising rotatably-arranged flange spools for winding and unwinding magnetic recorder tape. 3,119,574, 1–28–64, Cl. 242—55.13.
Laa, Friedrich, to North American Philips Co., Inc. Device for impressing or reproducing recordings. 3,122,294, 2–25–64, Cl. 226—50.
Laa, Friedrich, and G. Kargl, to North American Philips Co., Inc. Brake mechanism for push button controlled tape recorders and record players. 3,128,850, 4–14–64, Cl. 188—106.
Laager, Creston F., to United States of America, Army. Cartridge operated device tester. 3,139,756, 7–7–64, Cl. 73—432.
Laakmann, Peter, to American District Telegraph Co. Vibration detection vault arm system. 3,147,467, 9–1–64, Cl. 340—261.
Laakso, Thomas M., and D. A. Buckley. Block copolymers of polycarbonates from bisphenol A and tetrachlorobisphenol A. 3,119,787, 1–28–64, Cl. 260—47.
Laakso, Thomas M., J. L. R. Williams, and C. S. Garber, to Eastman Kodak Co. Quaternary salts of C-vinylpyridine polymers with compounds containing a haloacetyl group. 3,125,550, 3–17–64, Cl. 260—65.
Laakso, Thomas M., and D. A. Buckley, to Eastman Kodak Co. Block copolycarbonates of bisphenol A and 4,4′-bis (hydroxyphenyl) diphenyl methane. 3,128,264, 4–7–64, Cl. 260—42.
Laakso, Thomas M., and R. Fleisher, to Eastman Kodak Co. Copolymers comprising salts of N-sulfo alkyl α,β-unsaturated dicarboxylic imides. 3,133,047, 5–12–64, Cl. 260—78.5.
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Laas, Kurt, and L. Schmitt, to Siemens & Halske Aktiengesellschaft. Circuit arrangement for connectors controlled by markers common thereto. 3,144,516, 8–11–64, Cl. 179—18.
La Barre, Floyd, Jr., to Curtiss-Wright Corp. Aircraft propeller handling unit. 3,121,499, 2–18–64, Cl. 214—1.
LaBarre, Lawrence J. Automatic progressive multi-hole punch. 3,127,099, 3–31–64, Cl. 234—78.
Labash, Peter, Jr. Method of forming seamless hollow plastic shapes. 3,141,052, 7–14–64, Cl. 264—219.
Labat-Camy, André P. H., to Establissement Brulex, Etude et Exploitation pour Chauffage des Fours. Mobile roof burner system for heating of open hearth furnaces or the like. 3,129,930, 4–21–64, Cl. 263—15.
Labbé, Francis A. M., to Molins Machine Co. Ltd. Tobacco-manipulating machines. 3,125,099, 3–17–64, Cl. 131—84.
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La Beaume, Paul E., to Burroughs Corp. Electronic counter circuit using diode matrix. 3,151,236, 9–29–64, Cl. 235—92.
Laberstrom, Gosta B., to Pittsburgh Plate Glass Co. Siliceous pigments. 3,129,134, 4–14–64, Cl. 162—181.
Labino, Dominick, to Johns-Manville Fiber Glass Inc. Method for heating glass. 3,129,083, 4–14–64, Cl. 65—2.
Labino, Dominick, to Johns-Manville Corp. Machine and process for forming glass fibers. 3,129,084, 4–14–64, Cl. 65—2.
Labino, Dominick, to Johns-Manville Corp. Glass melting apparatus and method useful for the production of glass fibers. 3,134,659, 5–26–64, Cl. 65—2.
Labino, Dominick, to Johns-Manville Corp. Method for heating glass melting pot. 3,134,828, 5–26–64, Cl. 263—52.
Labino, Dominick, to Johns-Manville Fiber Glass Inc. Radiation resisting glass composition. 3,138,561, 6–23–64, Cl. 252—478.
La Bombard, Leon E., to The International Paper Box Machine Co. Foldable blank and carton. 3,122,300, 2–25–64, Cl. 229—37.
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Laboratoire d'Analyses et de Recherches R. Y. Mauvernay: *See*—
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Eloy, Philippe R. 3,124,517.
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De Malde, Marcello, Perrotti, Marilli, and Fognani. 3,117,137.
Laboratories for Applied Biology Ltd.: *See*—
Rabinovitch, Havva. 3,136,640.
Laboratories Francais de Therapeutique: *See*—
Masquelier, Jack A. 3,131,123.
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Storp, Klaus, and Kleemann. 3,116,970.
Laboratory Equipment Corp.: *See*—
Bennet, Eugene L., and Sauer. 3,148,032.
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Barker, John L. 3,128,446.
Barker, John L. 3,152,327.
Barker, John L. 3,161,876.
Dow, Frederick J. T., Morley, and Gorman. 3,159,823.
Du Vivier, Charles L. 3,121,213.
Fratantuno, Joseph. 3,141,977.
Freedman, Melvin B. 3,129,421.
Fuller, Harrison W. 3,140,471.
Fuller, Harrison W., and Hale. 3,131,078.
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Lockhart, Harry H. 3,148,343.
Macintyre, John S. 3,141,976.
Meyer, Maurice A. 3,123,769.
Midlock, Bernard J. 3,140,485.
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Midlock, Bernard J., and Baltayan. 3,120,640.
Mordwinkin, George. 3,142,024.
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Morel, Franz A. M., and Vlach. 3,158,742.
Pearson, Robert T., and Morley. 3,148,362.
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Rodgers, Lionel M. 3,152,315.
Sarratt, Everett R. 3,129,322.
Simmons, Elmer C. 3,130,397.
Sternberg, Robert L. 3,146,451.
Tittle. Charles W. 3,146,366.
Wilcox, Harry A. 3,150,349.
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Ziegler, Charles A. 3,154,684.
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Simmon, Alfred. 3,125,926.
La Borde, Russell G., to The Oilgear Co. Flat valve for hydraulic machine. 3,131,605, 5–5–64, Cl. 91—198.
La Bossiere, Edgar L., to Garal Mfg. Corp. Toy vehicle adapted from a beverage can. 3,154,882. 11–3–64, Cl. 46—11.
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McCormick, James B. 3,119,491.
La Budde John A.: *See*—
Gould, William A., and La Budde. 3,155,726.
Lacart, Rollin H., to Madco Mfg. Co. Testing manifolds. 3,118,463, 1–21–64, Cl. 137—343.
Lacasse, Adrien R., to Pittsburgh Plate Glass Co. Apparatus for imparting reciprocatory motion. 3,118,628, 1–21–64, Cl. 242—43.
La Casse, Roger. Color edge. 3,144,678, 8–18–64, Cl. 16—16.
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Lacey, Burl D. Router attachment. 3,162221 12–22–64 Cl. 144—134.
Lacey, Elbert M.: *See*—
Rohr, Fred H., Lacey, Rethwish, and Harding. 3,163,742.
Lacey, Elbert M., Jr., to Rohr Corp. Method and apparatus for feeding metal strips. 3,123,125, 3–3–64, Cl. 153—76.
Lacey, Floyd S., 50% to E. H. Neumann. Slip clutch. 3,116,618, 1–7–64, Cl. 64—30.
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Kinser, Charles F., and Lach. 3,146,334.
Lach, Walter, and G. J. Novak, to Western Electric Co., Inc. Clamping apparatus. 3,125,054, 3–17–64, Cl. 113—99.
Lachance, Armand A., and S. Ciborowski; said Ciborowski assor to said Lachance. Grocery cart with means for unloading same. 3,145,856, 8–25–64, Cl. 214—46.
Lachance, Armand A. Grocery cart. 3,147,021, 9–1–64, Cl. 280—33.99.
Lachance, Armand A. Endless dump display bin. 3,160,283, 12–8–64, Cl. 211—184.
Lachance, Ernest J., to Miles Laboratories, Inc. Tablet dispenser. 3,130,862, 4–28–64, Cl. 221—154.
Lachance, Gerald J., to American Metal Products, Inc. Seat construction for grocery carts. 3,129,015, 4–14–64, Cl. 280—33.99.
La Chapelle, Theodore J., Jr., to United States of America, Atomic Energy Commission. Oxychlorides of pentavalent neptunium. 3,149,908, 9–22–64, Cl. 23—14.5.
Lachat, Remy J., to Whirlpool Corp. Zero locking system for centrifugal apparatus. 3,142,641, 7–28–64, Cl. 210—144.
Lachere, Andre P. V. Machine for working the surface of elongated workpieces. 3,157,967, 11–24–64, Cl. 51—144.
La Chiusa, Arturo A. Raising means and method of raising cigarettes from a cigarette package. 3,120,904, 2–11–64, Cl. 221—1.
Lachman, Leon, to Ciba Corp. Injectable solution. 3,142,617, 7–28–64, Cl. 167—58.
Lachman, Leon, and S. Weinstein, to Ciba Corp. Automatic tablet coating apparatus. 3,141,792, 7–21–64, Cl. 118–6.

Laciviat, Angelo M.: *See*—
Rapisarda, Edward D., and Laciviat. 3,152,754.

Lack, Roger L.: *See*—
Leigh, Bertram R., Thomas, and Lack. 3,139,515.

Lackenmaier, Frank B., and J. W. Sanderson, to Gerber Industries, Inc. Flush valve. 3,142,846, 8–4–64, Cl. 4—62.

Lackey, Marion D., R. H. Evans, R. L. Sittel, and D. G. Wortman, to Unit Rig & Equipment Co. Tilting dumping trailer. 3,134,628, 5–26–64, Cl. 298—21.

Lackinger, Rudolf B. J. to Avesta Jernverks Aktiebolag. Drawing mandrel. 3,155,229, 11–3–64, Cl. 205—7.

Lackoff, Samuel K., to Rustrak Instrument Co., Inc. Controlling recording devices. 3,129,998, 4–21–64, Cl. 346—78.

La Combe, Edward M., and B. Stewart, to Union Carbide Corp. Process for preparing vinyl thioethers. 3,121,110, 2–11–64, Cl. 260—491.

La Combe, Edward M., and B. Stewart, to Union Carbide Corp. Fiber-forming compositions. 3,157,714, 11–17–64, Cl. 260—898.

Lacomme, Pierre J. B., and J. L. Demarcq. Wide angle oculars. 3,158,677, 11–24–64, Cl. 88—57.

La Coss Corp.: *See*—
La Coss, Gregory M. 3,162,966.

La Coss, Gregory M., to La Coss Corp. Handgun stabilizer. 3,162,966, 12–29–64, Cl. 42—72.

Lacoste, Roger G.: *See*—
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Schallenberg, Elmer E., and Lacoste. 3,143,506.

La Count, Ward J., and G. Schwab. Beverage bottle sorters. 3,156,360, 11–10–64, Cl. 209—74.

Lacour, Jean: *See*—
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La Crosse Cooler Co.: *See*—
Trapp, William R. 3,130,864.

Lacy, George H., and R. R. Chervenak, to The Dow Chemical Co. Laminate foil. 3,140,196, 7–7–64, Cl. 117—75.

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Estes, John C., and Lacy. 3,146,458.
Van Deusen, Edmund L. 3,145,838.

Ladabaum, Samuel, to Syntex Corp. Process for the production of 19-hydroxy-5α,10α-steroids. 3,150,155, 9–22–64, Cl. 260—397.4.

Ladas, James: *See*—
Workman, Ernest R. 3,127,903.

Ladd, Elbert C., to United States Rubber Co. N-(4-anilinophenyl) maleimide. 3,148,196, 9–8–64, Cl. 260—326.5.

Ladd, Frank H., to Allis-Chalmers Mfg. Co. Control system for step type regulator. 3,122,698, 2–25–64, Cl. 323—43.5.

Ladd, Frederick F., Jr., to Anelex Corp. Isolated high efficiency interstage coupling circuit. 3,153,153, 10–13–64, Cl. 307—88.5.

Ladd, Frederick F., Jr., to Anelex Corp. Shortproof emitter follower protective circuit. 3,163,829, 12–29–64, Cl. 330—24.

Ladd, LeRoy S.: *See*—
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Ladd, Robert H., and R. M. Glidden, to Texas Instruments Inc. Thermally responsive electrical switches. 3,157,768, 11–17–64, Cl. 200—138.

Lader, Leon J., to Hughes Aircraft Co. Microwave amplifier with heat dissipating means. 3,133,253, 5–12–64, Cl. 328—19.

Ladin, Eli M. High torque planetary drive. 3,144,789, 8–18–64, Cl. 74—798.

Ladish Co.: *See*—
Hayes, Arthur F. 3,127,671.
Joebken, John H. 3,133,554.

Ladner, Gerard. Revolving sanitary floor for horse stalls. 3,119,374, 1–28–64, Cl. 119—29.

Ladner, Richard A., to Westinghouse Electric Corp. Pinblock, adjustable diaphragm support. 3,147,952, 9–8–64, Cl. 253—39.

La Duca, Joseph: *See*—
Anderson, Robert E. D., and La Duca. 3,159,753.

La Duke, Lewis: *See*—
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Lady, James H., to Westinghouse Electric Corp. Thermal imaging device using a target which rotates the plane of polarization. 3,153,146, 10–13–64, Cl. 250—83.3.

Laemmle, Richard F., to Rob-Ric Co. Conduit cap and spacer. 3,160,175, 12–8–64, Cl. 138—96.

La Fave, Ivan V., and W. R. Mikesell, Jr., to Chicago Bridge & Iron Co. Low temperature storage facilities for liquefied gases. 3,127,750, 4–7–64, Cl. 62—45.

La Fave, Lawrence E.: *See*—
Stapper, Charles H., Jr., and La Fave. 3,157,857.

Lafay, Georges, to Societe des Forges et Ateliers du Creusat. Device for monitoring the driving torque and the angular positions of a rotating member. 3,120,132, 2–4–64, Cl. 74—165.

Laferte, Albert A.: *See*—
Budzyna, Joseph M., and Laferte. 3,125,131.

Laferty, John M., Jr., to Sylvania Electric Products Inc. Adding sodium and phosphorus to a tungsten oxide reduction process to get large particle sizes. 3,153,585, 10–20–64, Cl. 75—.5.

Lafferty, Gerald F.: *See*—
Proulx, Victor W., and Lafferty. 3,145,240.

Lafferty, James M., J. D. Cobine, and E. E. Burger. Electrodes for vacuum circuit interrupters and method of making same. 3,125,441, 3–17–64, Cl. 75—65.

Lafferty, James M., J. D. Cobine, and T. A. Vanderslice, to General Electric Co. Electric power generation. 3,149,-249, 9–15–64, Cl. 310—11.

Lafferty, John J., D. H. Tedeschi, and C. L. Zirkle, to Smith Kline & French Laboratories. 3-aminoindazole derivatives. 3,133,081, 5–12–64, Cl. 260—310.

Lafferty, John J., and B. Loev, to Smith Kline & French Laboratories. Phenylalkylsulfamides. 3,143,549, 8–4–64, Cl. 260—268.

Lafferty, John J., and B. Loev, to Smith Kline & French Laboratories. 2-phenylcyclopropylsulfamides. 3,147,305, 9–1–64, Cl. 260—556.

Lafferty, Wylie M. Sealing structure for pipe joints. 3,150,-876, 9–29–64, Cl. 277—198.

Lafferty, Wylie M. Method and apparatus for making pipe joint sealing structures. 3,151,195, 9–29–64, Cl. 264—262.

Lafferty, Wylie M., to United States Concrete Pipe Co. Compaction apparatus, product and method. 3,151,870, 10–6–64, Cl. 277—237.

Laffkas, Harry P., and T. H. Ward, to Corning Glass Works. Package. 3,163,289, 12–29–64, Cl. 206—65.

Laffon, Jean L.: *See*—
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La Fiandra, Joseph N., S. Einson, and J. Spielberg, to Loral Electronic Corp. Portable stroboscope. 3,144,584, 8–11–64, Cl. 315—241.

Lafitte, Carl W.: *See*—
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La Flame, Frank E., to General Motors Corp. Vacuum operated pump. 3,151,804, 10–6–64, Cl. 230—52.

La Fleur, Arthur E. Bags. 3,143,277, 8–4–64, Cl. 229—57.

La Follette, Elwood L.: *See*—
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Lafon, Louis, to Orsymonde, Societe Anonyme dite: Pharmaceutical excipient composition. 3,122,478, 2–25–64, Cl. 167—82.

Lafon, Louis, to Societe Anonyme dite: Orsymonde. Nicotinic esters of hydroxyl derivatives of the phenanthrenic alkaloids of opium, and process for the preparation of these esters. 3,131,185, 4–28–64, Cl. 260—247.2.

Lafon, Louis, to Orsymonde, Societe Anonyme dite. Method of treating colic with trihydroxyacetophenones. 3,137,621, 6–16–64, Cl. 167—55.

Lafon, Victor, to Orsymonde. Anorectic composition. 3,150,-043, 9–22–64, Cl. 167—55.

Lafon, Victor, to Societe Anonyme dite: Orsymonde. N-(α-hydroxy - β - trichloroethyl)-5,5-diphenyltetrahydroglyoxaline-4-one. 3,140,290, 7–7–64, Cl. 260—309.7.

Lafont, Michel, to Les Laboratoires de Phisique Applique. Precision potentiometer. 3,124,774, 3–10–64, Cl. 338—162.

Lafont, Pierre, to Societe des Usines Chimiques Rhone-Poulenc. Cyclododecadienols and their esters. 3,128,304, 4–7–64, Cl. 260—487.

Lafont, Pierre, to Societe des Usines Chimiques Rhone-Poulenc. Epoxide plasticizers and stabilizers for vinyl resins. 3,138,569, 6–23–64, Cl. 260—30.4.

Lafont, Pierre, and H. F. A. Menand, to Societe des Usines Chimiques Rhone-Poulenc. Guanidine derivatives. 3,157,-695, 11–17–64, Cl. 260—501.

LaFontaine, Raymond H., to Koehler Aircraft Products Co. Valve assembly. 3,141,470, 7–21–64, Cl. 137—68.

LaForce, Ronald P., and P. J. Clemm, to General Electric Co. Float casting. 3,145,119, 8–18–64, Cl. 117—114.

La Force, Walter P., to Thomas Industries Inc. Portable power saw. 3,140,746, 7–14–64, Cl. 173—162.

Laforest, Pierre: *See*—
Gagnon, Pierre, and Laforest. 3,149,732.

La France, Donald S.: *See*—
Kurhajec, George A., and La France. 3,131,211.

Lafuze, David L., to General Electric Co. Cascaded magnetic amplifier system. 3,139,576. 6–30–64, Cl. 323—85.

Lafuze, David L., to General Electric Co. Frequency sensing circuit including direct current source and reactance means. 3,151,294, 9–29–64, Cl. 324—78.

Lagacherie, Guy P., and J.-P. Lapeyre, to Etablissements Neyrpie (Ateliers Neyret-Beylier et Piccard-Pictet). Turbodrill. 3,133,603, 5–19–64, Cl. 175—107.

Lagarde, Auguste. Removable robot-accounting impulsion totalizator cartridge. 3,120,602, 2–4–64, Cl. 235—92.

Lagarias, John S., to Koppers Co., Inc. Method of operating a high velocity irrigated precipitator. 3,124,437, 3–10–64, Cl. 55—13.

Lageot, Joseph L. M.: *See*—
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Lager, Samuel E., to United States of America, Navy. Method of decoying a missile from its intended target. 3,150,-848, 9–29–64, Cl. 244—14.

Lager, Samuel E. Low toxicity rocket motor. 3,158,061, 11–24–64, Cl. 89—1.7.

Lagerquist, Roger E., to Edgerton, Germeshausen & Grier, Inc. Latch assembly. 3,161,037, 12–15–64, Cl. 70—169.

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Laguzzi, Mario, A. F. Martelli, and J. E. Robbins, to Poirette Corsets, Inc. Brassiere. 3,128,770, 4–14–64, Cl. 128—484.
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La Haye, Paul G., to Mechanical Technology Inc. Centrifugal compressing of low molecular weight gases. 3,161,020, 12–15–64, Cl. 60—39.02.
Lahde, Reinhard N., to Lockheed Aircraft Corp. High pressure fluid rate gyroscope. 3,139,758, 7–7–64, Cl. 74—5.6.
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Laifman, Steven S., H. S. Sacks, A. L. Hitchens, and E. W. Brumitt, to North American Aviation, Inc. Radially firing pyrotechnic igniter. 3,148,505, 9–15–64, Cl. 60—39.82.
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Lambeth, George F., to Dorr-Oliver Inc. Method and apparatus for activated sludge treatment. 3,133,017, 5–12–64, Cl. 210—5.

Lambeth, George F., to Dorr-Oliver Inc. Treatment tank for aerobically purifying waste liquids. 3,133,130, 5–12–64, Cl. 261—123.

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Lanctot, Donald H., deceased, by J. Lanctot, executrix, to Lantronics, Inc. Waveguide shutter utilizing flexible shutter vanes flexed by electromagnet. 3,121,207, 2–11–64, Cl. 333—98.
Lanctot, Donald H., to Don-Lan Electronics Co., Inc. Dielectric rod radiating antenna. 3,128,467, 4–7–64, Cl. 343—708.
Lanctot, Donald H., to Don-Lan Electronics, Inc. Co-axial switch. 3,141,943, 7–21–64, Cl. 200—153.
Lanctot, Donald H., to Don-Lan Electronic, Inc. Wave guide switch. 3,157,844, 11–17–64, Cl. 333—7.
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Land, Edwin H., to Polaroid Corp. Photographic processing apparatus with a tubular developer dispenser. 3,134,317, 5–26–64, Cl. 95—89.
Land, Edwin H., to Polaroid Corp. Photographic product and a process of additive color photography. 3,138,459, 6–23–64, Cl. 96—3.
Land, Edwin H., to Polaroid Corp. Photographic processing apparatus and product useful therein. 3,142,243, 7–28–64, Cl. 95—89.
Land, Edwin H., to Polaroid Corp. Photographic process. 3,142,566, 7–28–64, Cl. 96—61.
Land, Edwin H., to Polaroid Corp. Color printing process. 3,147,699, 9–8–64, Cl. 101—211.
Land, Edwin H., to Polaroid Corp. Liquid-carrying containers. 3,152,515, 10–13–64, Cl. 96—76.
Land, Edwin H., to Polaroid Corp. Photographic apparatus. 3,155,024, 11–3–64, Cl. 95—13.
Land, Edwin H., R. J. Chen, J. W. Lothrop, and R. R. Wareham, to Polaroid Corp. Camera apparatus for exposing and processing photographic film. 3,125,938, 3–24–64, Cl. 95—10.
Land, Edwin H., W. H. Ryan, N. Gold, and G. Battaglia, to Polaroid Corp. Process for color image formation. 3,148,058, 9–8–64, Cl. 96—2.
Land, Edwin H., N. Gold, and A. J. Sable, to Polaroid Corp. Photographic document copying apparatus. 3,152,531, 10–13–64, Cl. 95—75.
Land, Paul B., to Esso Research and Engineering Co. Measurement of liquid level. 3,156,116, 11–10–64, Cl. 73—302.
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Landau, Ralph, J. W. Colton, and M. B. Sherwin, to Halcon International, Inc. Process of separating lactams from Beckmann rearrangement reaction mixture. 3,127,395, 3–31–64, Cl. 260—239.3.
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Rubin, Arthur I., Landauer, and Brunner. 3,130,325.
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Landenberger, Eugen. Venetian blind. 3,134,427, 5–26–64, Cl. 160—168.
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Landers, Harvey S. Quick change roller die assembly. 3,139,844, 7–7–64, Cl. 107—14.
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Pippert, Elvin B., and Landes. 3,153,441.
Landes, Wesley K. Heavy duty aircraft ski. 3,128,065, 4–7–64, Cl. 244—108.
Landesman, Eugene. Screen printing machine. 3,139,823, 7–7–64, Cl. 101—124.
Landesco, Fred: *See*—
Kase, Nathan. 3,121,508.
Landfors, Arthur A., to National Research Corp. High vacuum. 3,141,606, 7–21–64, Cl. 230—101.
Landgraf, David C. Fertilizer distributor. 3,155,288, 11–3–64, Cl. 222—227.
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Harris, Thomas G., and Landis. 3,133,312.
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Landis, Harold P. Burglar alarm. 3,147,735, 9–8–64, Cl. 116—91.
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Berkey, Harry L. 3,148,394.
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Eyler, Roy I. 3,121,831.
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Landis, Phillip S., and H. D. Norris, to Socony Mobil Oil Co., Inc. Purifying hydrocarbons. 3,126,331, 3–24–64, Cl. 208—240.
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Price, Ralph E. 3,121,596.
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Price, Ralph E., and Happel. 3,145,507.
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Landon, James H. Edge straightening tool. 3,144,896, 8–18–64, Cl. 153—32.
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Landram, James F., and L. L. Wade, to The Dow Chemical Co. Methods for controlling parasites attacking cattle using phosphorous derivatives. 3,133,859, 5–19–64, Cl. 167—53.
Landreth, Orville H. Electrically-powered vehicle having interconnected power and brake controls. 3,117,648, 1–14–64, Cl. 180—55.
Landry, Alfred E., and P. G. Roberts, to United States of America, Army. Rotary electric switch. 3,121,143, 2–11–64, Cl. 200—11.
Landry, Louis J.: *See*—
Anastasoff, Vladimir, Landry, and McDaniel. 3,159,563.
Landsem, Perry E. Line reeling control means. 3,118,635, 1–21–64, Cl. 242—154.
Landstrom, Sven, to United States of America, Navy. Missile launching system. 3,162,088, 12–22–64, Cl. 89—1.7.
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Jakobsson, Bengt F., and Jung. 3,132,739.
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Lane, Homer P., to Western Electric Co., Inc. Spool handling apparatus. 3,130,937, 4–28–64, Cl. 242—129.7.
Lane, James L., to Walking Stick Radiators, Inc. Automobile radiator protective device. 3,156,297, 11–10–64, Cl. 165—119.
Lane, John J.: *See*—
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Lane, John J., and L. F. Flaherty, to Koppers Co., Inc. Protective coating. 3,128,261, 4–7–64, Cl. 260—28.5.
Lane, Kingdon. Liquid agitating apparatus. 3,116,913, 1–7–64, Cl. 259—108.
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Lane, Raymond J., to Bristol Siddeley Engines Ltd. Aircraft powerplant. 3,161,379, 12–15–64, Cl. 244—53.
Lane, Richard N., and J. J. Moore, to Union Carbide Corp. Exposure meter. 3,144,089, 8–11–64, Cl. 181—.5.
Lane, Richard O., to Macklin Co. Apparatus and method of grading grinding wheels in rotation. 3,116,632, 1–7–64, Cl. 73—78.
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Lang, Albert. Control board. 3,135,388, 6–2–64, Cl. 211—10.
Lang, Albert P., and N. B. Cohen, to Sperry Rand Corp. Adjustment mechanism. 3,152,489, 10–13–64, Cl. 74—522.
Lang, Alfred A.: *See*—
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Byer, Ellis M., and Lang. 3,118,776.
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Hardman, Kenneth V., and Lang. 3,155,998.
Hardman, Kenneth V., and Lang. 3,160,595.
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Lang, Charles W., A. L. Terwilliger, and L. I. Glaser, to General Precision, Inc. Brush block and brushes for rotor. 3,134,041, 5–19–64, Cl. 310—239.
Lang, Charles W., and R. W. Erikson, to Sundstrand Corp. Fuel unit. 3,143,967, 8–11–64, Cl. 103—4.
Lang, Delmer T. Thermal sensing by osmosis. 3,117,447, 1–14–64, Cl. 73—355.
Lang, Dickson S., to Consumers Cooperative Ass'n. Method of controlling face flies on livestock. 3,162,575, 12–22–64, Cl. 167—53.2.
Lang, Ernest U., to National-Standard Co. D.C. motor for position control with dynamic and mechanical braking. 3,130,358, 4–21–64, Cl. 318—371.
Lang, Ernest U., to National-Standard Co. Rope construction. 3,133,584, 5–19–64, Cl. 152—359.
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Copson, Harry R., and Lang. 3,159,480.
Lang, Francis J. Matrix crimping tool. 3,152,400, 10–13–64, Cl. 32—63.
Lang, Frederic A., and E. F. Holben, to Conoflow Corp. Self-contained valve actuator. 3,139,728, 7–7–64, Cl. 60—57.
Lang, George H., R. G. A. New, and J. M. Thompson, to Imperial Chemical Industries Ltd. Process for preparing 2:2′ dipyridyl. 3,152,137, 10–6–64, Cl. 260—296.
Lang, Harold M., to Pan American Petroleum Corp. Anchor and fluid seal for conduit liner. 3,142,499, 7–28–64, Cl. 285—55.
Lang, Harold M., and L. B. Wilder, to Pan American Petroleum Corp. Method of in-place lining of conduit. 3,132,062, 5–5–64, Cl. 156—287.
Lang, Henry A., to The Pure Oil Co. Crankcase spray device. 3,120,237, 2–4–64, Cl. 134—102.
Lang, Herbert G., to Ford Motor Co. Self-energizing disc brake. 3,133,614, 5–19–64, Cl. 188—73.
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Lang, John L., and T. E. Durocher, to The Dow Chemical Co. New polyamides from malide and diamines. 3,162,619, 12–22–64, Cl. 260—78.
Lang, John W., Jr., to Bell & Howell Co. Viewing attachments. 3,161,106, 12–15–64, Cl. 88—24.
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Lang, Konrad, to Farbenfabriken Bayer Aktiengesellschaft. Production of esters of thioboric acid and hypothioboric acids. 3,129,239, 4–14–64, Cl. 260—462.
Lang, Konrad, and F. Schubert, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of pure borohydrides. 3,151,945, 10–6–64, Cl. 23—312.
Lang, Konrad, and F. Schubert, to Farbenfabriken Bayer Aktiegesellschaft. Process for the production of tetraalkyl diboranes. 3,155,732, 11–3–64, Cl. 260—606.5.
Lang, Morris, and S. Goodman. Drum. 3,136,201, 6–9–64, Cl. 84—411.
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Lang, Richard E., and C. H. Smith, to United States of America, Navy. Cathode bias clamp. 3,129,388, 4–14–64, Cl. 330—123.
Lang, Richard E., and R. L. Wyckoff, to Raytheon Co. Multichannel systems. 3,156,915, 11–10–64, Cl. 343—117.
Lang, Sidney, to Multiple Products Corp. Chance number selector device for bingo games. 3,118,677, 1–21–64, Cl. 273—144.
Lang, Thomas G., to United States of America, Navy. Propeller stabilized and controlled torpedoes. 3,140,685, 7–14–64, Cl. 114—23.
Lang, William, to The Bates Mfg. Co. Rotary card index with brake. 3,146,868, 9–1–64, Cl. 192—8.
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Lang, William B., R. Reinartz, and H. Ficher, to Maschinenfabrik Augsburg-Nurnberg A.G. Device for removing hickies from printing plates. 3,144,826, 8–18–64, Cl. 101—425.
Lang, William H., D. M. Nace, and P. B. Weisz, to Socony Mobile Oil Co., Inc. Reforming with a steamed platinum-alumina catalyst in the presence of sulfur. 3,155,605, 11–3–64, Cl. 208—79.
Langan, Martin J.: *See*—
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Langballe, Poul O. Icebreakers. 3,130,701, 4–28–64, Cl. 114—40.
Langbaum, Murray, to Nova Products Corp. Adjustable furniture piece. 3,143,375, 8–4–64, Cl. 297—439.
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Langdon, Donald R., 50% to O. Gibson. Nuclear weapon flash protection garment. 3,132,344, 5–12–64, Cl. 2—1.
Langdon, Jesse D. Dual valved vacuum breaker. 3,125,114, 3–17–64, Cl. 137—218.
Langdon, Jesse D. Water closet trap refill apparatus. 3,137,009, 6–16–64, Cl. 4—29.
Langdon, Jesse D. Pneumatic and hydraulic pressure flushing apparatus. 3,149,344, 9–22–64, Cl. 4—26.
Langdon, Robert S., to General Electric Co. Motor mounting arrangement. 3,145,959, 8–25–64, Cl. 248—13.

Langdon, Robert S., to General Electric Co. Motor mounting arrangement. 3,145,960, 8–25–64, Cl. 248—13.
Langdon, Warren R.: *See*—
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Langdon, William K., E. Jaul, and W. W. Levis, Jr., to Wyandotte Chemicals Corp. Substituted morpholines. 3,154,544, 10–27–64, Cl. 260—247.
Langdon, William K., and H. Rubinstein, to Wyandotte Chemicals Corp. Methylation of piperazines. 3,159,633, 12–1–64, Cl. 260—268.
Lange, Benjamin O., to Lockheed Aircraft Corp. Infrared discharge lamp having conical anode heated by bombardment with electrons emitted by filamentary cathode. 3,118,-081, 1–14–64, Cl. 313—347.
Lange, Guenter, J. Eisele, and W. Federkiel, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Dyeings and prints on structures of triacetyl cellulose. 3,117,830, 1–14–64, Cl. 8—50.
Lange, Guenter, and H. G. Wippel, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Azo dyes. 3,117,956, 1–14–64, Cl. 260—152.
Lange, Guenter, G. Krehbiel, F. Kohler, and H.-J. Grasshoff, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Water-soluble dyestuffs containing trismethylolglyoxadiureine radicals. 3,117,961, 1–14–64, Cl. 260—157.
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Lange, Günther, to C. Zeiss. Range finder device for photographic cameras. 3,139,016, 6–30–64, Cl. 95—44.
Lange, Heinz, to Werkzeugmaschinenfabrik Adolf Waldrich. Tool mounting arrangement for forward and rearward planing. 3,163,088, 12–29–64, Cl. 90—53.
Lange, Karl H., to Balda-Kamerawerk Rudolf Gruter, Kommanditgesellschaft. Counter mechanism, particularly for photographic cameras. 3,121,378, 2–18–64, Cl. 95—31.
Lange, Karl H., to Balda-Kamerawerk Rudolf Gruter, Kommanditgesellschaft. Camera bright-frame viewfinder with coupled rangefinder. 3,150,579, 9–29–64, Cl. 95—44.
Lange, Karl H., W. Langewiesche, and G. Boke, to Balda-Kamerawerk Rudolf Gruter, Kommanditgesellschaft. Photographic cameras. 3,119,315, 1–28–64, Cl. 95—31.
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Lange, Paul H., Jr., and O. W. De Jarnett, to Olin Mathieson Chemical Corp. Gallery bullet. 3,123,003, 3–3–64, Cl. 102—91.
Lange, Paul O. H., to Werkzeugmaschinenfabrik Gildemister & Co., Aktiengesellschaft. Multi-spindle lathe. 3,158,053, 11–24–64, Cl. 82—3.
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Flegel, Curt, and Lange. 3,147,382.
Lange, William F., and S. A. Sloan, to Peabody Engineering Corp. Ignitor for fuel burner. 3,117,619, 1–14–64, Cl. 158—115.
Langecker, Erhard, to Gebruder Battenfeld, Firma. Apparatus for inflating hollow bodies from ribbons of thermoplastic material. 3,141,196, 7–21–64, Cl. 18—19.
Langecker, Erhard, and N. Würfel, to Battenfeld, Gebr., Firma. Light barrier means for automatic control of finished products. 3,121,797, 2–18–64, Cl. 250—222.
Langel, Gérard, to Fur Industrielle Elektronik Agie Losone Bei Locarno, A.G. Automatic profiling machine. 3,122,-864, 3–3–64, Cl. 51—101.
Langen, Peter, to F. Clouth. Inflatable assemblies for storage bins and the like. 3,121,500, 2–18–64, Cl. 214—17.
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Gottschald, Rudolf. 3,160,430.
Langenbach, Jack E., and W. K. Prill, to Beckman Instruments, Inc. Rectilinear motion variable resistance device. 3,135,941, 6–2–64, Cl. 338—180.
Langenberg, Frederick G. Air brace. 3,145,853, 8–25–64, Cl. 214—10.5.
Langenberger, Helmut, to Walter Buromaschinen Gesellschaft m.b.H. Calculating machine for division calculations. 3,143,289, 8–4–64, Cl. 235—60.15.
Langenfeld, Andrew G., and V. Pare. Stocking with special toe construction. 3,128,763, 4–14–64, Cl. 128—153.
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Tornquist, Erik, Seelbach, and Langer. 3,128,252.
Langer, Arthur W., Jr.: *See*—
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Langer, Gerhard, and G. Yamate, to IIT Research Institute. Apparatus for electrostatic encapsulation. 3,159,874, 12–8–64, Cl. 18—1.
Langer, Horst G., to The Dow Chemical Co. Organo-metal chelates of polyamino polyacetic acids. 3,117,147, 1–7–64, Cl. 260—429.7.
Langer, Horst G., to The Dow Chemical Co. Organo-tin and lead chelates. 3,120,550, 2–4–64, Cl. 260—429.7.
Langer, Horst G., to The Dow Chemical Co. Insoluble chelates of divalent tin, germanium and lead. 3,152,155, 10–6–64, Cl. 260—429.
Langer, Rudolph M. Mooring device. 3,138,135, 6–23–64, Cl. 114—230.
Langevin, Robert Z., to Vega Electronics Corp. Hand-held self-contained microphone transmitter. 3,134,075, 5–19–64, Cl. 325—118.
Lange-Wiehe, to Werner Bahlsen. Folding box. 3,130,891, 4–28–64, Cl. 229—16.
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Langford, Donald C. Apparatus for flooding and draining of runways used as landing aid and safety precaution for aircraft. 3,142,460, 7–28–64, Cl. 244—114.
Langhart, Victor K., to Pittsburgh Plate Glass Co. Glass handling apparatus. 3,126,108, 3–24–64, Cl. 214—8.5.
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Langmead, Frederick H. and P. N., to Zealand Engineering Co. Ltd. Apparatus for setting up and tooling workpieces. 3,145,605, 8–25–64, Cl. 83—413.
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Langmead, Frederick H., and P. N. 3,145,605.
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Langston, Josephine L. Loading system and spacers. 3,146,-729, 9–1–64, Cl. 105—369.
Langston, Samuel M., Co.: *See*—
Ferara, James T. 3,140,620.
Greenwood, Henry B. 3,120,803.
Langstroth, Theodore A., to Sterling Drug Inc. Coating compositions comprising coconut oil-modified phthalic alkyd resins and preparation of the same. 3,128,260, 4–7–64, Cl. 260—22.
Langton, John B.: *See*—
Shortt, Hubert, and Langton. 3,163,588.
Langway, Paul W.: *See*—
Kim, Charles W., Shattuck, and Langway. 3,132,462.
Shattuck, Ewart H., and Langway. 3,121,935.
Langworthy, James R.: *See*—
Worthington, Emory W., Langworthy, and Huffsmith. 3,134,325.
Lanham, John K. Service outlet arrangements. 3,135,821, 6–2–64, Cl. 174—48.
Lanham, Shelby R., to United States Steel Corp. Bin level indicator. 3,140,610, 7–14–64, Cl. 73—321.
Lanham, William E., to Apache Belt Co., Inc. Chain link conveyor belt. 3,127,980, 4–7–64, Cl. 198—195.
Lanham, William M., to Union Carbide Corp. Flame-resistant urethane foams. 3,159,591, 12–1–64, Cl. 260—2.5.
Lanham, William M., and P. L. Smith, to Union Carbide Corp. Insecticidal method using both pyrophosphoric and polyphosphoric acid partial ester ammonium salts and process for preparing same. 3,150,039, 9–22–64, Cl. 167—22.
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Boyer, Paul E., Mansfield, Crawford, and Lanier. 3,160,964.
Lanier, Reginald S.: *See*—
Kulesh, Eugene W., Lanier, and Helgerud. 3,130,642.
Lanier, Reginald S., and W. F. Muller, to Washington Scientific Industries, Inc. Rotary fluid displacement device. 3,125,962, 3–24–64, Cl. 103—140.
Lanigan, James P., Jr., E. F. Wallace, J. I. Kotter, and H. L. Salaun, Jr., to United States of America, Agriculture. Reversible double-drive clutch. 3,158,244, 11–24–64, Cl. 192—43.
Lanius, James C., Jr., to Illinois Tool Works Inc. Method of forming and assembling washer and fastener unit. 3,141,182, 7–21–64, Cl. 10—86.
Lanman, Robert W., to Carter Controls, Inc. Rotary actuator. 3,143,932, 8–11–64, Cl. 92—31.
Lanmon, C P, II, to McEvoy Co. Dual suspension and seal. 3,132,879, 5–12–64, Cl. 285—137.
Lanmon, C P, II, to Schlumberger Well Surveying Corp. Well perforator indexing apparatus. 3,154,147, 10–27–64, Cl. 166—55.1.

Lannan, Patrick E., to International Resistance Co. Control system for space device. 3,158,337, 11–24–64, Cl. 244—14.
Lannen, Robert J., to Micro-Poise Engineering and Sales Co. Connecting rod and pivot pin connection. 3,130,989, 4–28–64, Cl. 287—52.
Lannen, Robert J., to Micro-Poise Engineering and Sales Co. Universal automatic balancing machine. 3,158,032, 11–24–64, Cl. 73—485.
Lanning, John G., to Corning Glass Works. Muffler with ceramic honeycomb baffle. 3,163,256, 12–29–64, Cl. 181—56.
Lanning, Walter C., and R. E. Spero, to Sperry Rand Corp. Shaft position transducer. 3,156,907, 11–10–64, Cl. 340—198.
Lansbury, Peter T., to E. I. du Pont de Nemours and Co. Anticonvulsant process and composition. 3,145,142, 8–18–64, Cl. 167—65.
Lansch, John L., to Anaconda Wire and Cable Co. Oil pressure controller for pipe-type electric cable. 3,155,765, 11–3–64, Cl. 174—11.
Lansford, Robert J.: *See*—
Hunter, Charles A., Jr., Braunlin, Lansford, and Knoebel. 3,120,227.
Lansing Bagnall Ltd.: *See*—
Dolphin, John R. V., and Russell. 3,143,081.
Knights, Robert E., and Dixon. 3,143,190.
Lansing, Frederick J., to The Schlegel Mfg. Co. Buffing wheel. 3,160,905, 12–15–64, Cl. 15—230.15.
Lansing, Horace L., to Poor & Co. Electrically insulated rail joint. 3,154,250, 10–27–64, Cl. 238—152.
Lansing, James B., Sound, Inc.: *See*—
Newton, Harold B. 3,145,037.
Lansky, Zdenek J., and K. W. Leibfritz, to Parker-Hannifin Corp. Solenoid mounting for valve operating mechanism. 3,141,115, 7–14–64, Cl. 317—165.
Lanston Industries, Inc.: *See*—
Malloy, John R., and Hommel. 3,160,047.
Lanstrom, Carl T., to United States Steel Corp. Rotary brush mounting. 3,120,018, 2–4–64, Cl. 15—179.
Lanto, Willi, to International Standard Electric Corp. Arrangement for the turning-over of flat dispatch articles. 3,144,250, 8–11–64, Cl. 271—2.
Lantoin, Jean, to Hooker Chemical Corp. Process and compositions for forming improved phosphate coatings on metallic surfaces. 3,146,133, 8–25–64, Cl. 148—6.15.
Lantronics, Inc.: *See*—
Lanctot, Donald H. 3,121,207.
Lantz, Russell J., Jr., and M. J. Robinson, to Smith Kline & French Laboratories. Method of preparing sustained release pellets and products thereof. 3,146,167, 8–25–64, Cl. 167—82.
Lanum, William J., ½ to G. A. Petersen, and ½ to A. E. Petersen. Stocking grip for conductor with eye. 3,133,725, 5–19–64, Cl. 254—134.3.
Lanum, William J., ½ to G. A. Petersen and ½ to A. E. Petersen. Pulling sleeve for conductors and method of installing conductors. 3,137,765, 6–16–64, Cl. 174—90.
Lanyon, Charles E.: *See*—
Campbell, John E., Hansen, Lanyon, and Oglesby. 3,135,590.
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Lapaix, André L., ½ to Prat-Daniel. Apparatus for injecting a metered amount of a gas into a liquid, suitable in particular for use as a chlorination apparatus. 3,127,908, 4–7–64, Cl. 137—501.
La Penna, Joseph, and L. R. Jones, said Jones assor. to J. Church, said La Penna assor. to M. M. Voyt. Molding clip. 3,160,251, 12–8–64, Cl. 189—88.
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Lagacherie, Guy P., and Lapeyre. 3,133,603.
Lapham, Clarence L., to Plasticmaster Corp. Method and means for continuous plastic lamination. 3,163,104, 12–29–64, Cl. 100—38.
Lapham, Sidney D. Mechanical memory machine and apparatus. 3,160,729, 12–8–64, Cl. 200—153.
Lapidus, Solomon, and M. Sheldon, to Bogart Mfg. Corp. Coaxial switch. 3,153,129, 10–13–64, Cl. 200—153.
Lapine, Anatole C., to General Motors Corp. Swing-out vehicle seat. 3,147,994, 9–8–64, Cl. 296—65.
La Plante, Joseph P.: *See*—
Knighton, James B., Steunenberg, and La Plante. 3,154,408.
La Plante, Lyle J.: *See*—
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Lapof, Ray, to Torjesen, Inc. Folding partitions and seal therefor. 3,126,050, 3–24–64, Cl. 160—40.
La Pointe, Andre E., to United States of America, Navy. Chaff dispenser. 3,143,965, 8–11–64, Cl. 102—34.4.
Lapointe, James A., to Raytheon Co. Frequency controlled oscillator. 3,127,577, 3–31–64, Cl. 332—29.
La Pointe, Joseph L., to General Precision, Inc. D.C. igniter system. 3,154,135, 10–27–64, Cl. 158—122.
La Pointe, Joseph L., to Hupp Corp. Ignition system and control for burner and conveyor. 3,162,429, 12–22–64, Cl. 263—6.
La Pointe, Joseph L., and J. J. Fannon, Jr., to Hupp Corp. Dimensional control device. 3,147,574, 9–8–64, Cl. 51—165.
La Pointe Joseph L., and J. J. Fannon, Jr., to Hupp Corp. Control circuit for gas burner. 3,155,145, 11–3–64, Cl. 158—125.
Lapointe, Lloyd J., to Royal McBee Corp. Code translator. 3,123,819, 3–3–64, Cl. 340—347.
Lapointe, Lloyd J., to Royal McBee Corp. Nut and lead screw mechanism. 3,133,453, 5–19–64, Cl. 74—424.8.
La Pollo, Michael A. Sanitary rack for toothbrushes and dentifrice. 3,138,414, 6–23–64, Cl. 312—207.
La Porte, Roland M.: *See*—
Paxhia, Emanuel F., and La Porte. 3,121,547.
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Lapp, David T.: *See*—
Bartlett, Howard J., Lapp, and Watson. 3,141,737.
Lapp Insulator Co., Inc.: *See*—
Wilson, Lawrence F., and Liepold. 3,131,638.
Lapp, Marshall, to General Electric Co. Electric power generation. 3,149,252, 9–15–64, Cl. 310—11.
Lappas, Lewis C., and C. W. McKeehan, to Eli Lilly and Co. Enteric compositions. 3,143,472, 8–4–64, Cl. 167—82.
Lappin, Gerald R.: *See*—
Bell, Alan, and Lappin. 3,148,147.
Lapple, August, G.m.b.H., & Co.: *See*—
Haas, Eberhard. 3,153,287.
Lapporte, Seymour J., to California Research Corp. Novel polymers of hydrazine and diorthoesters of terephthalic acid. 3,158,582, 11–24–64, Cl. 260—2.
Lapporte, Seymour J., and L. L. Ferstandig, to California Research Corp. Production of vicinal amino alcohols. 3,139,457, 6–30–64, Cl. 260—584.
Lapray, Judith M. E. Siphon for use in irrigation and for like purposes. 3,121,441, 2–18–64, Cl. 137—147.
La Prelle, Frank B., to Ed-U-Cards Mfg. Corp. Teaching means. 3,154,863, 11–3–64, Cl. 35—9.
Lapsley, Rhea P., to The Okonite Co. Alternating current pipe cable system with magnetic field trap. 3,160,702, 12–8–64, Cl. 174—32.
Lapsley, Robert: *See*—
Hosbein, Hugh W., and Lapsley. 3,127,956.
Lapsley, Robert, to Clark Equipment Co. Leveling valve. 3,129,725, 4–21–64, Cl. 137—627.5.
Laquer, Henry L., to United States of America, Atomic Energy Commission. Superconductive electric switch. 3,145,284, 8–18–64, Cl. 200—166.
Laquer, Henry L., to United States of America, Atomic Energy Commission. Incremental electrical method and apparatus for energizing high current superconducting electromagnets. 3,150,291, 9–22–64, Cl. 317—123.
Laracey, Gerald P.: *See*—
Yanna, Andrew F. 3,155,105.
Laran, Roy J., to Ethyl Corp. Perchlorates of titanium and beryllium. 3,157,464, 11–17–64, Cl. 23—85.
Larason, Allen B., to United States Steel Corp. Transfer table for rectangular articles. 3,150,547, 9–29–64, Cl. 80—48.
Larcen, Jan. A., to Atlas Copco Aktiebolag. Rock drilling mechanism. 3,132,703, 5–12–64, Cl. 173—62.
Larchar, Trescott B., Sr., W. R. Mitten, A. D. Snyder, and W. K. Taft, to Olin Mathieson Chemical Corp. Solid high energy borane fuel composition. 3,128,212, 4–7–64, Cl. 149—19.
Larcher, Rudolph A., Sr., and G. Pritchard, deceased (B. L. Pritchard, executor). Rotary internal combustion engine. 3,152,582, 10–13–64, Cl. 123—16.
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Ammerman, Charles R., and Larchuk. 3,127,516.
Lard, Edwin W., R. C. Horn, and H. D. Green, to W. R. Grace & Co. Process for reducing the tendency of crystalline urea to cake. 3,123,637, 3–3–64, Cl. 260—555.
Lardelli, Guido, P. H. Begemann, P. D. Harkes, and A. S. M. van der Zijden., to Lever Bros. Co. Hydroxy-gamma-lactones and process therefor. 3,151,128, 9–29–64, Cl. 260—343.6.
Lardin, Arthur R. Catapult delivery device. 3,138,063, 6–23–64, Cl. 89—1.
Lardy, Henry A., and W. T. Brady, Jr., to Wisconsin Alumni Research Foundation. α-Methyl-iodothyronamines. 3,118,942, 1–21–64, Cl. 260—570.8.
La Reaux, Leon, to American Toy & Furniture Co. Hammer and peg toy. 3,138,894, 6–30–64, Cl. 46—1.
La Reaux, Leon, Jr. Toy device for composing figure pictures. 3,122,859, 3–3–64, Cl. 46—37.
Larew, John J., and J. K. Snell, to General Electric Co. Servo-controlled shutters for pinhole detectors. Re. 25,671, 10–27–64, Cl. 250—219.
Large, Charles M.: *See*—
De Boer, Clarence, Dietz, Eble, and Large. 3,160,560.
Large, Wayne V. K.: *See*—
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Larini, Giovanni: *See*—
Bernardi, Luigi, Larini, and Leone. 3,158,612.
Larinoff, Michael W. Automobile automatic-parking device. 3,117,642, 1–14–64, Cl. 180—1.
Larive, Henri, and R. J. Dennilauler, to Eastman Kodak Co. Novel synthesis of cyanines and merocyanines. 3,149,105, 9–15–64, Cl. 260—240.7.

Larkin, Barrymore T.: *See*—
St. Clair, William E., and Larkin, 3,148,171.
Larkin, Bert K.: *See*—
Poettmann, Fred H., Larkin, Milton, and Bixel. 3,127,-935.
Larkin, Cyril S., to Adhesive Tapes Ltd. Device for applying adhesive tape. 3,143,452, 8–4–64, Cl. 156—522.
Larkin, Daniel C. Seat cover. Re. 25,537, 3–17–64, Cl. 297—219.
Larkin, Frank L., and M. M. McNamara, to Monsanto Chemical Co. Process for treating nylon filaments. 3,124,632, 3–10–64, Cl. 264—290.
Larkin, James R., and R. J. Van Twisk, to United States Rubber Co. Mold for open hollow objects. 3,142,094, 7–28–64, Cl. 18—39.
Larkin, John P., to International Telephone and Telegraph Corp. Ternary recording and reproducing apparatus. 3,133,274, 5–12–64, Cl. 340—174.1.
Larkin, Kenneth E. Stand and tilting support for bottles and the like. 3,150,852, 9–29–64, Cl. 248—141.
Larkin, Mark E. Adjustable sink means. 3,118,147, 1–21–64, Cl. 4—170.
Larkin, Robert E., to Cutler Hammer, Inc. Manually operated trigger switch for rotatable electric tools. 3,138,689, 6–23–64, Cl. 200—168.
Larkin, Sam. Machine for making wire mesh. 3,144,054, 8–11–64, Cl. 140—112.
Larkin, Thomas E., to United States Steel Corp. Plural motor synchronous tie starting system. 3,139,573, 6–30–64, Cl. 318—44.
Larkin, Thomas E. Remote gas meter. 3,154,672, 10–27–64, Cl. 235—92.
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Larko, Robert C., to Sunbeam Corp. Hot car furnace. 3,125,328, 3–17–64, Cl. 263—28.
Larky, Norbert D., to Space Technology Laboratories, Inc. Position indicator. 3,142,835, 7–28–64, Cl. 340—347.
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Jackson, Charles Q., Larmore, and Edinger. 3,122,750.
La Rocca, Aldo V., to General Electric Co. Reaction propulsion system. 3,149,460, 9–22–64, Cl. 60—35.6.
La Rocca, Rosario S. Electric fencing target for instructing the blind. 3,128,097, 4–7–64, Cl. 273—102.2.
La Rosa, Richard, to Hazeltine Research, Inc. Matched coupling apparatus. 3,135,924, 6–2–64, Cl. 329—161.
La Rou, Albert M., to Ford Motor Co. Hydraulic power system. 3.156,098. 11–10–64, Cl. 60—97.
Larouche, Marcel. Puller for diamond drill rods and the like. 3,137,520, 6–16–64, Cl. 294—113.
Larpent, Jeannine M. S. (born Corset). Fluid motor and pump having expansible chambers. 3,139,871, 7–7–64, Cl. 123—43.
Larrick, Howard M., and W. R. Brosch. Automatic sensitivity control for sound actuated detection and alarm systems. 3,155,954, 11–3–64, Cl. 340—261.
Larrison, Owen D., to Phillips Petroleum Co. Distillation process controlled by the concentration of an impurity in the product streams. 3,156,628, 11–10–64, Cl. 202—40.
Larsen, Aubrey A., to Sterling Drug Inc. Iodinated esters of substituted benzoic acids and preparation thereof. 3,119,858, 1–28–64, Cl. 260—471.
Larsen, Aubrey A., to Sterling Drug Inc. 1-[mono-and bis (alkanesulfonamido)benzoyl] hydrazine derivatives and their preparation. 3,124,610, 3–10–64, Cl. 260—501.
Larsen, Aubrey A., to Sterling Drug Inc. Acylated 3-amino-5-hydroxy-2,4,6-triiodobenzoic acid and esters and salts thereof. 3,133,116, 5–12–64, Cl. 260—479.
Larsen, Aubrey A., and J. O. Hoppe, to Sterling Drug Inc. Alkyl esters of acylated 3,5-diamino-2,4,6-triiodobenzoic acids and their preparation. 3,128,301, 4–7–64, Cl. 260—471.
Larsen, Bendt W., to Danfoss ved. Ing. M. Clausen. Centrifugal separator. 3,149,939, 9–22–64, Cl. 55—204.
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Larsen, Burnham L. and B. J. 3,161,116.
Larsen, Burnham L. and B. J., to Curbmaster of America, Inc. Bridge deck finisher. 3,161,115, 12–15–64, Cl. 94—45.
Larsen, Burnham L. and B. J., to Curbmaster of America, Inc. Curb molding and shaping apparatus. 3,161,116, 12–15–64, Cl. 94—46.
Larsen, Charles A., to George Gorton Machine Co. Automatic electro-hydraulic tracer. 3,121,370, 2–18–64, Cl. 90—13.5.
Larsen, Einer: *See*—
Evanson, Clifford E., Jorgensen, Albrecht, Block, and Larsen. 3,156,195.
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Larsen, Frank R., to Northrop Corp. Track interlock and safety stop means. 3,124,082, 3–10–64, Cl. 104—98.
Larsen, Frank R., to Northrop Corp. Elevating trailers. 3,135,398, 6–2–64, Cl. 214—1.
Larsen, Grant R. Plumber's calking tool. 3,130,612, 4–28–64, Cl. 78—47.
Larsen, Hans: *See*—
Kollberg, Eric, Moffa, Larsen, and Johansen. 3,125,306
Larsen, Herbert, and H. Bauhof, to Siemens & Halske Aktiengesellschaft. Tubular wave guide for transmitting circular-electric waves. 3,158,824, 11–24–64, Cl. 333—95.
Larsen, Lester J.: *See*—
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Larsen, Ludolph: *See*—
Magers, William M., Wermager, Blomquist, and Larsen. 3,120,784.
Larsen, Ludolph M., to United States of America, Navy. Large diameter rotating blade and contact assembly. 3,132,218, 5–5–64, Cl. 200—15.
Larsen, Oscar F., to The National Cash Register Co. Apparatus for positioning and retaining record material. 3,148,758, 9–15–64, Cl. 197—127.
Larsen, Raymond B., to Uptime Corp. Reading machine. 3,142,749, 7–28–64, Cl. 235—61.11.
Larsen, Robert F.: *See*—
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Larsen, Robert T., to Outboard Marine Corp. Impact absorbing means for marine propulsion. 3,151,597, 10–6–64, Cl. 115—41.
Larsen, Theodore E., to Minneapolis-Honeywell Regulator Co. Thermally actuated dual magnetic switch with shunt and temperature compensation. 3,130,285, 4–21–64, Cl. 200—138.
Larsen, Truls O. Devices for circulating air in footwear. 3,142,912, 8–4–64, Cl. 36—3.
Larsh, Everett P. Balancing apparatus. 3,129,591, 4–21–64, Cl. 73—472.
Larsh, Everett P. Balancing apparatus. 3,130,075, 4–21–64, Cl. 118—8.
Larsh, Everett P. Actuator assembly. 3,147,631, 9–8–64, Cl. 74—89.
Larson, Albert D. Bottom hole pump. 3,126,836, 3–31–63, Cl. 103—179.
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Larson, Arvid. Fishing chair. 3,151,910, 10–6–64, Cl. 297—349.
Larson, Arvid, to R. L. Jones. Outrigger pole bracket for fishing boats. 3,161,390, 12–15–64, Cl. 248—40.
Larson, Edwin A.: *See*—
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Larson, Ernest T., Jr., to General Aniline & Film Corp. Radiographic film package. 3,124,683, 3–10–64, Cl. 250—68.
Larson, Frank A., to The Hallicrafters Co. Pipe to plate coupling. 3,148,900, 9–15–64, Cl. 285—159.
Larson, Gerald W., to Minnesota Mining and Mfg. Co. Presensitized lithographic light-sensitive sheet construction. 3,136,637, 6–9–64, Cl. 96—75.
Larson, Gustav A., T. F. West, Jr., and W. A. Hanson, to United States of America, Navy. Device for determining the mean height of a waveform. 3,126,639, 3–31–64, Cl. 33—143.
Larson, Harold A.: *See*—
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Larson, Harold A., to Phillips Petroleum Co. Methylethylpyridine-methylvinylpyridine fractionation. 3,151,046, 9–29–64, Cl. 202—46.
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Carbert, Ralph E., and Larson. 3,116,840.
Carbert, Ralph E., and Larson. 3,158,267.
Larson, Herbert J. Cattle standing heat detector. 3,158,133, 11–24–64, Cl. 119—1.
Larson, Herbert J. Cattle standing heat detector. 3,158,-134, 11–24–64, Cl. 119—1.
Larson, John E.: *See*—
Ichikawa, Stanley T., and Larson. 3,137,615.
Larson, Laurence E. Antiskid appliance device for vehicles. 3,122,191, 2–25–64, Cl. 152—225.
Larson, Leland A., to The Dow Chemical Co. Connections to expanded plastic materials. 3,116,498, 1–7–64, Cl. 9—8.
Larson, Louis P., to Riegel Paper Corp. Dispensing container. 3,144,980, 8–18–64, Cl. 229—51.
Larson, Louis P., to Riegel Paper Corp. Dispensing carton with reclosable pour spout. 3,147,904, 9–8–64, Cl. 229—17.
Larson, Olaf A.: *See*—
Beuther, Harold, Flinn, and Larson. 3,132,088.
Larson, Ralph A.: *See*—
Brick, Robert M., Larson, Maier, and Valyi. 3,133,517.
Larson, Richard C. Heating and cooling plant control system and valves therefor. 3,125,292, 3–17–64, Cl. 236—1.
Larson, Richard C. Thermostatic valve. 3,132,804, 5–12–64, Cl. 236—101.
Larson, Robert H.: *See*—
Hoag, John F., and Larson. 3,159,077.
Larson, Robert L.: *See*—
Raver, Louis J., and Larson. 3,129,378.
Larson, Robert W., to Beloit Corp. Hydraulically actuated timber shear. 3,122,184, 2–25–64, Cl. 144—34.
Larson, Thurston E., and R. W. Lane. Apparatus and method for determining steam purity. 3,158,444, 11–24–64, Cl. 23—230.
Larson, Vincent H., J. A. Zdrazil, and R. D. Holmberg, to United States of America, Air Force. Cable ejection system. 3,138,355, 6–23–64, Cl. 244—110.
Larson, Wesley S.: *See*—
Richardson, Henry M., Larson, and De Bell. 3,121,446.
Larson, William B., to General Motors Corp. Method of producing an aluminum alloy. 3,157,494, 11–17–64, Cl. 75—134.
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Boies, David B., Gerlach, Larsonneur, and Bregman. 3,147,223.

Larsson, Bengt Å., and E. Krantz, to Aktiebolaget Svenska Flaktfabriken. Ventilating paint booths. 3,138,087, 6–23–64, Cl. 98—115.

Larsson, Bjorn E.: *See*—
Zdanowski, Richard E., and Larsson. 3,130,176.

Larsson, Carl A. R.: *See*—
Ahlberg, Lars F. B., and Larsson. 3,133,785.

Larsson, Erik R., to Arenco Aktiebolag. Cigar wrapper. 3,147,755, 9–8–64, Cl. 131—15.

Larsson, George E., to Auto-Photo Co. Automatic coin-controlled recording apparatus. 3,148,757, 9–15–64, Cl. 194—2.

Larsson, Gunnar. Tube coupling. 3,149,861, 9–22–64, Cl. 285—349.

Larsson, Gustav, to Svenska Flaktfabriken, Aktiebolaget. Switch valve for pipe lines. 3,146,033, 8–25–64, Cl. 302—28.

Larsson, Nils E. B., to Stal Refrigeration Aktiebolag. Safety device for refrigeration compressors. 3,125,285, 3–17–64, Cl. 230—230.

Larsson, Nils E. B. Valve for machines having a reciprocating piston. 3,136,479, 6–9–64, Cl. 230—229.

Larsson, Nils F., to Electrolux, Aktiebolaget. Thrust bearing for rotatable shaft. 3,161,447, 12–15–64, Cl. 308—163.

Larsson, Oscar U.: *See*—
Stahl, Nils E. J., and Larsson. 3,116,685.

Larsson, Per E. A., to General Electric Co. Pressure-divider for hydraulic control. 3,158,168, 11–24–64, Cl. 137—101.

Larsson, Samuel, to Madrass-Fabriken Dux Aktiebolag. Sitting furniture. 3,135,549, 6–2–64, Cl. 297—303.

La Rue, John D., to Jersey Production Research Co. Apparatus for selectively detonating a plurality of explosive charge means. 3,126,964, 3–31–64, Cl. 166—55.5.

Lary, Edmund C., and R. G. Meyerand, Jr., to United Aircraft Corp. Magnetohydrodynamic generator. 3,127,528, 3–31–64, Cl. 310—11.

Lary, Edmund C., R. G. Meyerand, Jr., and R. H. Bullis, to United Aircraft Corp. Conductivity augmentation. 3,139,551, 6–30–64, Cl. 313—63.

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Lau, Erwin M., to Black Products Co. Bag filling machines. 3,133,609, 5–19–64, Cl. 177—118.
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Laufer, Theodor, to Dornier-Werke G.m.b.H. Portable heliport and transporting vehicle for a foldable helicopter. 3,147,940, 9–8–64, Cl. 244—114.
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Lawrence, Ralph W., and A. J. Secchi, to Aerojet-General Corp. Propulsion method employing resonance suppressor. 3,141,294, 7–21–64, Cl. 60—35.4.

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Lawrence, Ronald T. Device for introducing a liquid into a stream of pressurised gas. 3,119,404, 1–28–64, Cl. 137—205.5.

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Peterson, Merle H., and Lawrence. 3,158,975.

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Lawrie, Macleay E. Submarine. 3,120,208, 2–4–64, Cl. 114—16.

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McCormick, Robert H., and Lawroski. 3,140,924.

Lawroski, Stephen: *See*—
Schneider, Alfred, Burris, and Lawroski. 3,154,378.

Lawroski, Stephen, J. B. Knighton, and R. K. Steunenberg, to United States of America, Atomic Energy Commission. Americium-curium separation. 3,152,887, 10–13–64, Cl. 75—84.1.

Lawry, Russell H. Pilot rock drill. 3,145,789, 8–25–64, Cl. 175—386.

Laws, Awbrey C.: *See*—
Doyle, Arnold W., Jolkovski, and Laws. 3,160,686.

Laws, Ira G., to Seismograph Service Corp. Recall voting apparatus for voting machine. 3,118,598, 1–21–64, Cl. 235—54.

Laws, Rufus F., and J. M. Hoots, to Morpul, Inc. Sock construction. 3,162,029, 12–22–64, Cl. 66—172.

Lawser, John J., to Ford Motor Co. Ignition system for a gas turbine engine. 3,138,924, 6–30–64, Cl. 60—39.14.

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Lawson, Frank W. Container. 3,140,793, 7–14–64, Cl. 220—39.

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Lawson, Herbert E., Jr., to United States of America, Navy. Deferred action battery. 3,160,529, 12–8–64, Cl. 136—90.

Lawson, Herbert E., B. K. Disney, and O. E. Accountius, to Aerojet-General Corp. Electrode arrangement for a battery. 3,125,467, 3–17–64, Cl. 136—83.

Lawson, John B.: *See*—
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Lawson, Joseph M. Lumber handling apparatus. 3,162,292, 12–22–64, Cl. 198—33.

Lawson, Kenneth T., to Head Wrightson & Co. Ltd. Roller leveller straightening machines for metal plates, sheet or strip. 3,156,288, 11–10–64, Cl. 153—107.

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Lawson, Robert H. and J. B., to Lawson Engineering Co. Tension device for elastic yarn. 3,161,032, 12–15–64, Cl. 66—146.

Lawson, Willie R., Sr. Automatic packaging machine. 3,122,-241, 2–25–64, Cl. 214—6.

Lawson, Wilmer M., Jr., to United States of America, Navy. Battery charger. 3,160,805, 12–8–64, Cl. 320—39.

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Key, Carroll L., Jr., Laird, and Lawther. 3,160,848.

Lawton, Emil A., and J. Q. Weber, to North American Aviation, Inc. Method of preparing chlorodifluoramine. 3,134,-638, 5–26–64, Cl. 23—14.

Lawton, Lawrence. Traffic signal device. 3,141,149, 7–14–64, Cl. 340—44.
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Lay, George R., and R. P. Helling, to United States of America, Navy. Arresting gear actuator with integral cavitation prevention device. 3,118,640, 1–21–64, Cl. 244—110.
Lay, Norman R., to Ling-Temco-Vought, Inc. Method of making multiconductor cable. 3,128,214, 4–7–64, Cl. 156—55.
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Layer, Robert W., to The B. F. Goodrich Co. N-alkylidene-p-phenylazoanilines. 3,118,872, 1–21–64, Cl. 260—205.
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Lazan, Benjamin J., to The Budd Co. Static-dynamic fatigue-creep testing apparatus. 3,135,106, 6–2–64, Cl. 73—15.6.
Lazan, Benjamin J., to The Regents of the University of Minnesota. Damping means. 3,159,249, 12–1–64, Cl. 189—34.
Lazan, Benjamin J., to The Budd Co. Specimen grip assembly. 3,163,036, 12–29–64, Cl. 73—103.
Lazan, Frank, Jr., ⅓ each to E. Rosiak and J. L. Johnson. Multipurpose clip for kitchen utensils. 3,163,385, 12–29–64, Cl. 248—37.6.
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Lazareff, Michel, to Nord-Aviation Societe Nationale de Constructions Aeronautiques. Flying platform fairing. 3,142,456, 7–28–64, Cl. 244—23.
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Leach, Edward E., to Minnesota Mining and Mfg. Co. Terminal plug and block. 3,117,829, 1–14–64, Cl. 339—97.
Leach, Edward M., to Union Carbide Corp. Core casting method. 3,160,931, 12–15–64, Cl. 22—194.
Leach, Flavius C., 50% to R. L. Pelphrey. Rail lifting device. 3,154,338, 10–27–64, Cl. 294—88.
Leach, Harold H., to A. Alford. Radio frequency coaxial reducing section having short tapers, offset from each other, in inner and outer conductors. 3,118,119, 1–14–64, Cl. 333—33.
Leach, Harold W., and D. G. E. Wilkes, to Joseph Lucas (Industries) Ltd. Liquid fuel burning apparatus. 3,154,131, 10–27–64, Cl. 158—1.5.
Leach, Harry S., to Monsanto Co. Purification of acrylonitrile. 3,146,258, 8–25–64, Cl. 260—465.9.
Leach, Kant F. Coach body jack. 3,148,795, 9–15–64, Cl. 214—515.
Leach, John M. Swinging tray conveyors. 3,162,297, 12–22–64, Cl. 198—110.
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Leach, Thurman H. Storage bin. 3,157,106, 11–17–64, Cl. 98—55.
Leachman, Robert C., Jr. Foldable chair. 3,134,622, 5–26–64, Cl. 297—35.
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Lenel, Fritz V. 3,139,334.
Radtke, Schrade F., and Lenel. 3,138,851.
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Leafe, Edward L.: *See*—
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Stevenson, Herbert A., and Leafe. 3,155,486.
Leafquist, Herbert, and E. P. Sjostrom, to Lawson Machine and Tool Co. Lathe turret. 3,137,916, 6–23–64, Cl. 29—35.5.
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Leakey, David M., to The General Electric Co., Ltd. Amplitude sensitive termination. 3,143,661, 8–4–64, Cl. 307—88.5.
Leakey, David M., to The General Electric Co. Ltd. Transistor gating circuits. 3,153,729, 10–20–64, Cl. 307—88.5.
Leaman, Harold E., to Owens-Corning Fiberglas Corp. Method and apparatus for forming and processing linear bodies of heat-softenable material. 3,149,944, 9–22–64, Cl. 65—4.
Leander, Frans G., and G. H. Rosenblad, to Atlas Copco Aktiebolag. Rock drill feeding devices. 3,160,074, 12–8–64, Cl. 91—217.
Leandri, Giuseppe, to Montecatini, Societa Generale per l'Industria Mineraria e Chimica. Polymeric compositions stabilized against heat, aging and light with diphenyl sulfones. 3,138,572, 6–23–64, Cl. 260—45.9.
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Lear, Earl B., to Chicago Pneumatic Tool Co. Rock drill mount. 3,155,351, 11–3–64, Cl. 248—2.
Lear, Earl B., and A. F. Hallett, Jr., to Chicago Pneumatic Tool Co. Down the hole drill. 3,136,375, 6–9–64, Cl. 173—16.
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Graybeal, Troy D. 3,144,596.
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Radke, Richard P., and Blair. 3,129,315.
Secunde, Richard R., and Grace. 3,159,767.
Visser, Jacob J. 3,122,938.

Learn, Arthur J., R. S. Spriggs, and F. W. Schmidlin, to Space Technology Laboratories, Inc. Thin filming apparatus. 3,117,025, 1–7–64, Cl. 118—49.

Leary, Thomas S., and J. H. Cottrell, to Cities Service Research and Development Co. Recovery of bitumen from bituminous sand. 3,117,922, 1–14–64, Cl. 208—11.

Leas, Arnold M., A. V. Casto, A. E. Haile, and W. A. Sutton, Jr., to Ashland Oil Refining Co. Process for the production of supersonic jet fuels. 3,146,186, 8–25–64, Cl. 208—49.

Leas, Arnold M., and E. A. Thompson, to Ashland Oil & Refining Co. Process for the separation of N-paraffins. 3,163,632, 12–29–64, Cl. 260—96.5.

Leasure, John K., to The Dow Chemical Co. Method for the control of plant growth. 3,162,525, 12–22–64, Cl. 71—2.7.

Leasure, William C., and E. T. Anderson. Apparatus for sealing strip material. 3,133,390, 5–19–64, Cl. 53—180.

Leath, Harry A. Motor. 3,151,529, 10–6–64, Cl. 91—205.

Leath, Harry A. Rotary internal combustion engine. 3,161,183, 12–15–64, Cl. 123—43.

Leather Ltd. Inc.: *See*—
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Leathers, Chester F., to Cal Mfg. Co. Welding cable with pressed lugs. 3,163,704, 12–29–64, Cl. 174—15.

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Leathers, Ward G., to Teleregister Corp. Printer for data processing apparatus. 3,146,700, 9–1–64, Cl. 101—93.

Leavell, Charles. Pneumatic torque-transmitting coupling for isolating angular vibration. 3,136,143, 6–9–64, Cl. 64—26.

Leavell, Charles. Wheel-equipped suitcase. 3,163,268, 12–29–64, Cl. 190—18.

Leavengood, William H., and R. D. Thomas, to Central of Georgia Railway Co. Ramp car. 3,153,489, 10–20–64, Cl. 214—85.

Leavenworth, Edgar K., and L. S. Deitz, Jr., to American Metal Climax, Inc. Method of preparing molybdenum disulfide. 3,125,413, 3–17–64, Cl. 23—134.

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Leavy, William A., to United States of America, National Aeronautics and Space Administration. Switching mechanism with energy storage means. 3,141,932, 7–21–64, Cl. 200—39.

Le Baron, Charles E., ½ to A. D. Zimmer. Toothpaste dispenser and brush holder. 3,155,278, 11–3–64, Cl. 222—93.

Le Baron, Francis, Jr. Fluid-flow grating. 3,127,821, 4–7–64, Cl. 94—33

Le Baron, Ira M., to International Minerals & Chemical Corp. Production of potassium bicarbonate. 3,141,730, 7–21–64, Cl. 23—64.

Le Bel, John P., ½ to H. E. Nichols. Space vehicle with cooled ball on leading end. 3,128,964, 4–14–64, Cl. 244—1.

Leben, Curt C., to Eli Lilly and Co. Herbicidal compositions and methods. 3,137,562, 6–16–64, Cl. 71—2.5.

Lebens, John C., to McGraw-Edison Co. Protectors for electric circuits. 3,118,035, 1–14–64, Cl. 200—119.

Lebermann, August A. Self aligning arbor. 3,125,837, 3–24–64, Cl. 51—237.

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Le Bihan, Marcel: *See*—
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Leblanc, Conrad L., to Foster Grant Co., Inc. Mechanical joint. 3,120,982, 2–11–64, Cl. 308—135.

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Pascucci, Vito, and Glantz. 3,161,103.

Le Blanc, Evans O.: *See*—
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Le Blanc, Leo J., to Woodward Iron Co. Process and apparatus for lining pipe molds. 3,150,424, 9–29–64, Cl. 22—36.

Leblanc, Leon, to G. Leblanc Corp. Musical wind instrument octave mechanism. 3,136,199, 6–9–64, Cl. 84—385.

Leblanc, Leon, to G. Leblanc Corp. Saxophone. 3,136,200, 6–9–64, Cl. 84—385.

Leblanc, Leon, to G. Leblanc Corp. Musical wind instrument register mechanism. 3,163,074, 12–29–64, Cl. 84—382.

Leblanc, Raymond R., to Crompton & Knowles Corp. Sprinkler type package. 3,155,282, 11–3–64, Cl. 222—107.

Le Blanc, Robert E.: *See*—
Bly, Donald A., and Le Blanc. 3,142,956.

Leblon, Emile: *See*—
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Le Blond, R. K., Machine Tool Co., The: *See*—
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Lebourg, Maurice P., to Schlumberger Well Surveying Corp. Method and apparatus for completing a well. 3,153,449, 10–20–64, Cl. 166—21.

Lebourg, Maurice P., to Schlumberger Well Surveying Corp. Multichannel recorder. 3,158,428, 11–24–64, Cl. 346—46.

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Lebow, Milton J. 3,128,622.
Lebow, Milton J. 3,128,628.
Lebow, Milton J. 3,149,420.

Lebow, Milton J., to Lebow Associates Inc. Overload protector. 3,120,754, 2–11–64, Cl. 73—141.

Lebow, Milton J., to Lebow Associates, Inc. Torque meter. 3,128,622, 4–14–64, Cl. 73—136.

Lebow, Milton J., to Lebow Associates, Inc. Pressure transducer. 3,128,628, 4–14–64, Cl. 73—398.

Lebow, Milton J., to Lebow Associates Inc. Load strain indicator. 3,149,420, 9–22–64, Cl. 33—147.

Le Bras, Louis R.: *See*—
Wismer, Marco, Le Bras, and Peffer. 3,134,742.
Wismer, Marco, Le Bras, Peffer, and Foote. 3,153,002.

Le Bras, Louis R., and D. F. Stahr, to Pittsburgh Plate Glass Co. Oxides of tin as catalysts in the preparation of polyesters. 3,157,618, 11–17–64, Cl. 260—75.

Lebre, Charles J. P., to Societe d'Etude et de Construction d'Appareils de Levage et de Traction (Secalt S.A.). Handling gripper with several holding widths. 3,150,895, 9–29–64, Cl. 294—16.

Le Brell, John, to Alton Box Board Co. Hopper feed for carton blanks. 3,130,967, 4–28–64, Cl. 271—62.

Le Bris, Jean, P. Mouret, and P. Pottier, to Commissariat a l'Energie Atomique. Methods of extracting uranium from ores containing it. 3,143,483, 8–4–64, Cl. 204—1.5.

Le Brise, Raymond, to Societe Anonyme Francaise du Ferodo. Transmissions incorporating a hydraulic device with disengageable output shaft. 3,132,530, 5–12–64, Cl. 74—330.

Le Bus, Franklin L., Sr., to Le Bus Royalty Co. Gear box attachment for lathes. 3,132,526, 5–12–64, Cl. 74—63.

Le Bus, Franklin L., Sr., to Le Bus Royalty Co. Cable spooling apparatus. 3,150,844, 9–29–64, Cl. 242—117.

Le Bus, Franklin L., Sr., R. E. Smith, and R. A. Crowley, to Le Bus Royalty Co. Automatic fleet angle compensation apparatus. 3,122,341, 2–25–64, Cl. 242—157.1.

Le Bus Royalty Co.: *See*—
Le Bus, Franklin L., Sr. 3,132,526.
Le Bus, Franklin L., Sr. 3,150,844.
Le Bus, Franklin L., Sr., Smith, and Crowley. 3,122,341.

Le Can, Claude J. P. F., and C. De Ruyter, to North American Philips Co., Inc. Transistor current switching for logical circuits. 3,142,764, 7–28–64, Cl. 307—88.5.

Lecarme, Jacques A. M., to Societe Francaise d'Entretien et de Reparation de Materiel Aeronautique (S.F.E.R.M.A.). Automatic aircraft rudder trimmer in the event of failure of one turbine engine driving said aircraft. 3,160,367, 12–8–64, Cl. 244—76.

Le Chaptois, Raymond, to Societe Anonyme Francaise du Ferodo. Control system for an electromagnetic clutch. 3,132,728, 5–12–64, Cl. 192—.07.

Le Chassis Metallique Belge "Chamebel" Societe Anonyme: *See*—
Golde, Dimitri. 3,163,204.

Lechene, Leo L., and F. L. Soisson, to Skee-Bird Mfg. Co., Inc. Ski-sled. 3,161,416, 12–15–64, Cl. 280—21.

Lecher, Hans Z., W. H. Brunner, and F. Pum, to Clairol Inc. Amino, nitro-phenyl-biguonides and amino, nitro-phenyl; guanyl-ureas. 3,119,867, 1–28–64, Cl. 260—553.

Lechner, Walter L., to Monroe Calculating Machine Co. Calculating machine register. 3,145,922, 8–25–64, Cl. 235—1.

Lechtenberg, Leo J., to Briggs & Stratton Corp. Air cooled internal combustion engine. 3,118,433, 1–21–64, Cl. 123—41.31.

Leciejewski, Anthony G., to Freeway Washer & Stamping Co. Methods of making bearing devices. 3,139,666, 7–7–64, Cl. 29—148.4.

Leckie, Thomas L., to The Bradford Dyers' Association Ltd. Stencil printing of thick fabrics. 3,129,442, 4–21–64, Cl. 8—149.1.

Leckie, Thomas L., to The Bradford Dyers' Association Ltd. Printing of thick fabrics and stencil printing apparatus. 3,140,028, 7–7–64, Cl. 226—59.

Leclabart, Jean. Heater grip for permanent waving. 3,126,895, 3–31–64, Cl. 132—36.

Leclabart, Jean. Form for display of wigs or headdresses. 3,132,778, 5–12–64, Cl. 223—66.

Leclair, Leonard: *See*—
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Le Clear, Edgar R., to International Telephone and Telegraph Corp. Pulse amplitude percentage comparator system. 3,120,630, 2–4–64, Cl. 317—149.

Le Clerc, John T., and L. F. Alexanderer. Diaper flushing device. 3,117,435, 1–14–64, Cl. 68—181.

Leclerc, John T., and G. Goehringer, ½ to J. T. Leclerc, and ½ to L. F. Alexander. Method for reproducing images. 3,122,094, 2–25–64, Cl. 101—149.4.
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Courtois, Guy, and Le Clerc. 3,145,181.
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Lecluyse, Edouard, to Tuboplast-France. Container with a breakable seal. 3,162,339, 12–22–64, Cl. 222—541.
Lecocq, Samuel G., to Sportsways, Inc. Regulator for underwater breathing apparatus. 3,147,761, 9–8–64, Cl. 137—63.
LeCronier, Richard E., and E. E. Schwenzfeger, to Bell Telephone Laboratories, Inc. Data transmission system. 3,131,263, 4–28–64, Cl. 179—18.
Le Cronier, Richard E., and M. I. Rackman, to Bell Telephone Laboratories, Inc. Voltage level detector. 3,134,-052, 5–19–64, Cl. 317—123.
Le Cronier, Richard E., and E. E. Schwenzfeger, to Bell Telephone Laboratories, Inc. Voltage level detector circuits. 3,134,054, 5–19–64, Cl. 317—137.
Le Cronier, Richard E., and M. I. Rackman, to Bell Telephone Laboratories, Inc. Voltage level detector circuits. 3,134,055, 5–19–64, Cl. 317—137.
Lecroart, Henri, and P. Ricateau, to Commissariat a l'Energie Atomique. Interpolation devices. 3,151,239, 9–29–64, Cl. 235—185.
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Lecut, Jacques, to Compagnie Generale de Radiologie. Apparatus for driving and controlling the movement of an X-ray tube. 3,132,250, 5–5–64, Cl. 250—91.
Ledbetter, Ernest F. Automobile tire accessory. 3,157,217, 11–17–64, Cl. 152—230.
Ledding, Willard E., to Corn Products Co. Wet oxidative reactivation of spent active carbon. 3,150,105, 9–22–64, Cl. 252—416.
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Harris, Arthur M., and Ledin. 3,141,380.
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Leding, William A. Fluid flow control device. 3,162,212, 12–22–64, Cl. 137—625.6.
Ledl, George H. : *See*—
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Lee, Aaron, to Winslow Mfg. Corp. Spraying mechanism. 3,122,324, 2–25–64, Cl. 239—318.
Lee, Alvin W. Hand wrench. 3,132,549, 5–12–64, Cl. 81—57.
Lee, Andrew. Post-forming machine. 3,149,376, 9–22–64, Cl. 18—19.
Lee, Arnold S. J. Automatic blood pressure recorder. 3,146,-777, 9–1–64, Cl. 128—2.05.
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Lee, Arthur L., and A. B. Coval, to Consolidation Coal Co. High pressure fluid seals. 3,122,373, 2–25–64, Cl. 277—3.
Lee, Arthur L., and A. B. Coval, to Consolidation Coal Co. Multiple vehicle braking apparatus. 3,155,197, 11–3–64, Cl. 188—86.
Lee, Arthur R., ½ to Sunnyview Investment Corp. Adapter for nipple on bath tub spout. 3,136,570, 6–9–64, Cl. 285—193.
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Lee, Charles A., to Huyck Corp. Papermaking machine utilizing centrifugal dewatering. 3,150,037, 9–22–64, Cl. 162—208.
Lee, Charles H., to General Motors Corp. Rotary bolt door latch. 3,128,113, 4–7–64, Cl. 292—280.
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Lee, Edward W., to Ilford Ltd. Synthetic film materials. 3,145,105, 8–18–64, Cl. 96—87.
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Lee, Edwin S., III, to Burroughs Corp. Timed inhibit circuit. 3,123,719, 3–3–64, Cl. 307—88.
Lee, Edwin S., III, to Burroughs Corp. Digital magnetic code converter. 3,141,159, 7–14–64, Cl. 340—347.
Lee, Elwood L., to International Business Machines Corp. Capacitor storage device for shift register applications. 3,151,251, 9–29–64, Cl. 307—88.5.
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Lee, Herbert C. Shoe. 3,137,950, 6–23–64, Cl. 36—2.5.
Lee, Herbert P. C. : *See*—
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Lee, Hop. Musical whistle. 3,131,590, 5–5–64, Cl. 84—330.
Lee, Hua-Tung, to International Business Machines Corp. Arithmetic system. 3,129,324, 4–14–64, Cl. 235—175.
Lee, James, and Sons Co. : *See*—
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Lee, James H., to Wedgelock Corp. of California. Releasable fastener having retaining means for a drive nut. 3,144,805, 8–18–64, Cl. 85—81.
Lee, James H., to Wedgelock Corp. of California. End clamp. 3,155,385, 11–3–64, Cl. 269—236.
Lee, James L., Jr. Time registering mechanism. 3,143,847, 8–11–64, Cl. 58—22.9.
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Lee, John G. W., to The de Havilland Aircraft Co. Ltd. Narrow beam radiation scanned pattern alarm system. 3,120,654, 2–4–64, Cl. 340—258.
Lee, John G. W., to The De Havilland Aircraft Co. Ltd. Lock release systems. 3,144,761, 8–18–64, Cl. 70—277.
Lee, John G. W., and L. R. F. Thompson, to The De Havilland Aircraft Co. Ltd. Protected remote alarm system. 3,155,-953, 11–3–64, Cl. 340—253.
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Lee, Lester H., to General Precision, Inc. Amplitude detector. 3,135,897, 6–2–64, Cl. 317—148.5.
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Lee Paul. Dispensing, self-locking closures. 3,162,319, 12–22–64, Cl. 215—74.

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Lee, Richard C.: *See*—
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Lee, Robert E., and R. I. Kearley, Jr., to Texas Instruments Inc. Frequency modulation system and crystal discriminator therefor. 3,156,878, 11–10–64, Cl. 332—19.
Lee, Robert H., and W. J. Friedrich, to Basler Electric Co. Generator control means. 3,119,934, 1–28–64, Cl. 307—78.
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Lee, Royal, to Lee Foundation For Nutritional Research. Single phase alternating current motor system. 3,144,597, 8–11–64, Cl. 318—220.
Lee, Royal, to Lee Foundation for Nutritional Research. Dynamo-electric apparatus. 3,151,261, 9–29–64, Cl. 310—198.
Lee, Royal B. Non-skid grating. 3,140,644, 7–14–64, Cl. 94—30.
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Lee, William F. Lint clearing means for drawing frames and the like. 3,141,200, 7–21–64, Cl. 19—159.
Lee, William F. Emergency brakes for bicycles and the like. 3,141,525, 7–21–64, Cl. 188—24.
Lee, William O. Temperature responsive switch with improved strut arrangement. 3,157,767, 11–17–64, Cl. 200—137.
Lee, William W. Liquefied petroleum flood light. 3,130,569, 4–28–64, Cl. 67—88.
Lee, William W., and K. M. Sancier, to The Procter & Gamble Co. Bleaching, sterilizing and disinfecting tablet and method of preparation. 3,120,378, 2–4–64, Cl. 252—95.
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Leeds, Harry R. Captive plug dispensing closure. 3,143,255, 8–4–64, Cl. 222—479.
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Leeds, Winthrop M., and B. R. Johnson, to Westinghouse Electric Corp. Arrangement for controlling circuit continuity. 3,144,592, 8–11–64, Cl. 317—148.5.
Leeds, Winthrop M., and B. P. Baker, to Westinghouse Electric Corp. Liquefied-gas circuit interrupters. 3,150,245, 9–22–64, Cl. 200—145.
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Lefebvre, Arthur H., and H. F. Smith, to Rolls-Royce Ltd. Combustion products generator with diverse combustion and diluent air paths. 3,132,484, 5–12–64, Cl. 60—39.65.
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Le Fever, Daniel M. Portable device for producing duplicate keys. 3,148,589, 9–15–64, Cl. 90—13.05.
Lefevre, Albert E., to Charbonnages de France. Portable transistorized transceiver apparatus. 3,132,300, 5–5–64, Cl. 325—16.
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Legocki, Joe E., 15% each to P. Koltisha, Jr., G. Koltisha, and A. W. Peterson. Automatic bale piler. 3,139,196, 6–30–64, Cl. 214—6.
Le Grand, Donald G., and D. G. Flom, to General Electric Co. Testing device and use in process control. 3,161,704, 12–15–64, Cl. 264—40.
Le Guennec, Rene, and P. Pesenti, to Commissariat a l'Energie Atomique. Mechanical manipulators for the displacement of objects located in a radioactive medium. 3,128,-887, 4–14–64, Cl. 214—1.
Leguillon, Charles W. Flexible plastic permanent magnets. 3,124,725, 3–10–64, Cl. 317—158.
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Lehan, Frank W., to Space-General Corp. Self-synchronizing communication system. 3,158,864, 11–24–64, Cl. 343—200.
Lehan, Frank W., A. W. Newberry, and R. W. Sanders, to Space-General Corp. Decoder network. 3,149,308, 9–15–64, Cl. 340—147.
Lehane, Jeremiah P., Jr., to Hercules Powder Co. Impact strength of blends of polyethylene and polypropylene. 3,137,672, 6–16–64, Cl. 260—41.
Lehde, Richard H., to Dayton Co., Inc. Timing device for starting a three-phase motor. 3,127,483, 3–31–64, Cl. 200—38.
Lehfeldt, Dr., & Co. G.m.b.H.: *See*—
Bande, Hans-Wilhelm. 3,129,581.
Lehmacher, William H.: *See*—
Monick, John A., and Lehmacher. 3,152,947.
Lehman, Ben J., to Beckman Instruments, Inc. Dispensing apparatus. 3,134,512, 5–26–64, Cl. 222—189.
Lehman, Charles L. Shaft roller bearing seal. 3,141,710, 7–21–64, Cl. 308—187.1.
Lehman, Joseph, and C. Chalfon. Closure for tubes and bottles. 3,116,857, 1–7–64, Cl. 222—545.
Lehman, Leon M.: *See*—
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Lehman, Leon M., to Sinclair Research, Inc. Removal of vanadium and nickel from silica based cracking catalyst. 3,150,104, 9–22–64, Cl. 252—415.
Lehman, Leon M., to Sinclair Research, Inc. Isomerization of alkyl benzenes. 3,159,687, 12–1–64, Cl. 260—668.
Lehmann, A. J., Co.: *See*—
Sandstrom, Arne H. A. 3,136,415.
Lehmann, Alfred: *See*—
Schreiner, Horst, and Lehmann. 3,143,626.
Lehmann, Ernest H., to Xerox Corp. Xerographic apparatus. 3,117,891, 1–14–64, Cl. 118—637.
Lehmann, Ernest H., to Xerox Corp. Cylindrical surface projection apparatus. 3,148,581, 9–15–64, Cl. 88—24.
Lehmann, Ernest H., and C. L. Huber, to Xerox Corp. Time compressed display. 3,153,785, 10–20–64, Cl. 343—5.
Lehmann, Gerhard, and H. Zahn, to Shell Oil Co. Removal of odor by hydrogenation and oxidation. 3,152,070, 10–6–64, Cl. 208—264.
Lehmann, Harold A., to Ford Motor Co. Hydraulic power steering apparatus. 3,122,973, 3–3–64, Cl. 91—434.
Lehmann, Herbert G., to Valve Corp. of America. Aerosol metering valve construction. 3,158,179, 11–24–64, Cl. 137—627.5.
Lehmann, Ruediger, to O. and S. Steidinger, d.b.a. Gebrueder, Steidinger, K.G. Record changers. 3,127,180, 3–31–64, Cl. 274—15.
Lehmann, Willi: *See*—
Thornton, William A., Jr., and Lehmann. 3,152,994.
Lehmann, Willi, to Westinghouse Electric Corp. Electroluminescent cell and variable frequency source for selective excitation of contrastingly-responsive phosphor components thereof. 3,118,079, 1–14–64, Cl. 313—108.
Lehmann, Willi, to Westinghouse Electric Corp. Method for removing cuprous sulfide segregations from the surface of electroluminescent phosphors. 3,133,026, 5–12–64, Cl. 252—301.6.
Lehmann, Willi, to Westinghouse Electric Corp. Method for processing zinc-cadmium sulfide electroluminescent phosphor. 3,133,027, 5–12–64, Cl. 252—301.6.
Lehmann, Willi, to Westinghouse Electric Corp. Method of preparing cubic zinc-cadmium sulfide electroluminescent phosphor. 3,140,999, 7–14–64, Cl. 252—301.6.
Lehmann, Wolfgang: *See*—
Logemann, Heino, and Lehmann. 3,122,518.
Lehmer, Wilhelm, and W. Baldus, to Gesellschaft fur Linde's Eismaschinen Aktiengesellschaft. Process for removing trace admixtures from reactor coolant gas. 3,155,469, 11–3–64, Cl. 55—66.
Lehmer, Wilhelm, A. Rein, and J. Weishaupt, to Gesellschaft fur Linde's Eismaschinen Aktiengesellschaft. Packing units for heat exchangers operating at extremely low temperatures. 3,159,910, 12–8–64, Cl. 29—417.
Lehmkuhl, Herbert: *See*—
Ziegler, Karl, and Lehmkuhl. 3,119,854.
Lehmkuhl, Robert A.: *See*—
Reichert, Charles L., and Lehmkuhl. 3,151,505.
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Compeau, Gerald M. 3,141,821.
Harrison, Thomas S. 3,154,074.
Harrison, Thomas, and Cokeley. 3,156,240.
Lehner, Wilhelm, and A. Kinshofer, to G. Fitzmeier. Yieldable vehicle seat. 3,139,304, 6–30–64, Cl. 297—308.
Lehnert, Bo P., and B. K. J. Bonnevier. Apparatus for confining and heating a plasma. 3,155,594, 11–3–64, Cl. 176—8.
Lehnert, Gunther, to Hackethal Draht- und Kabel Werke AG. Method and means for guiding moving thin metal strips. 3,119,534, 1–28–64, Cl. 226—1.
Lehnert, Gunther, to Hackethal Draht und Kabel Werke AG. Apparatus for making thin walled corrugated metal tubing. 3,128,930, 4–14–64, Cl. 226—173.
Lehnert, Gunther, and F. Schatz, to Hackethal-Draht-und Kabel-Werke AG. Apparatus for drawing metal tubing. 3,116,865, 1–7–64, Cl. 226—173.
Lehovec Kurt, to Spraque Electric Co. Light modulation in a semiconductor body. 3,158,746, 11–24–64, Cl. 250—199.
Lehovec, Kurt, and R. Zuleeg, to Sprague Electric Co. Method for producing an out-diffused graded-base transistor. 3,134,159, 5–26–64, Cl. 29—25.3.
Lehr, Philip N., and R. Lupia, to Dictograph Products, Inc. Chime signal regulator. 3,159,717, 12–1–64, Cl. 179—84.
Lehtonen, Edwin W., to Friden, Inc. Automatic spring-looping machine. 3,156,269, 11–10–64, Cl. 140—103.
Leibach, Heinrich, and F. Riemerschmid, to M.A.N.-Turbomotoren G.m.b.H. Vertical take-off and landing aircraft. 3,122,343, 2–25–64, Cl. 244—23.
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Merkel, Hans, and Leibenzeder. 3,124,423.
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Leibinger, Berthold, to Trumpf & Co. Sheet cutting machine. 3,144,798, 8–18–64, Cl. 83—410.
Leibinger, Berthold, to Messrs. Trumpf & Co. Punch guide for nibbling machine. 3,163,068, 12–29–64, Cl. 83–237.
Leibowitz, Marvin R.: *See*—
Grosser, Frederick, and Leibowitz. 3,129,210.

Leichsenring, Max. Thermally actuated circuit delay switch connector. 3,123,686, 3–3–64, Cl. 200—51.

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Leidy, Kenneth L., and H. D. Cubbage, to United States of America, Navy. Coaxial multiband antenna. 3,139,620, 6–30–64, Cl. 343—730.

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Leigh, Bertram R., and L. G. Thomas, to J. Stone & Co. (Deptford) Ltd. Plural stage temperature control. 3,122,-316, 2–25–64, Cl. 236—1.

Leigh, Bertram R., L. G. Thomas, and R. L. Lack, to J. Stone & Co. (Deptford) Ltd. Temperature control for a compartmental vehicle. 3,139,515, 6–30–64, Cl. 219—202.

Leigh, Francis S. J., and E. May, to Birlec-Efco (Melting) Ltd. Conductors for arc furnaces. 3,125,622, 3–17–64, Cl. 13—9.

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Leightner, Robert A., to International Business Machines Corp. Ring counter employing four-layer diodes and scaling resistors to effect counting. 3,135,875, 6–2–64, Cl. 307—88.5.

Leightner, Robert A., to International Business Machines Corp. Shift register. 3,148,359, 9–8–64, Cl. 340—174.

Leightner, Robert A., to International Business Machines Corp. Bidirectional decade counter. 3,151,252, 9–29–64, Cl. 307—88.5.

Leightner, Robert A., to International Business Machines Corp. Pulse divider employing threshold device triggered by coincidence of tryout pulses and synchronized RC-delayed pulses. 3,163,779, 12–29–64, Cl. 307—88.5.

Leighton, Francis, and A. D. Herman, to Crane Co., doing business under the name Hydro-Aire Co. Auxiliary spring powered safety actuator for brakes of the fluid operated type. Re. 25,669, 10–27–64, Cl. 92—63.

Leighton, Thomas C., and K. L. Sandefur, to Hycon Mfg. Co. Image rotation system. 3,143,732, 8–4–64, Cl. 343—5.

Leimer, Albert, and S. Brunner; said Brunner assignor to said Leimer. Weft correcting apparatus. 3,156,964, 11–17–64, Cl. 26—51.3.

Leinbach, William H. Method of rolling a tubing with a controlled wall thickness. 3,149,512, 9–22–64, Cl. 80—61.

Leineweber, James P., to Johns-Manville Corp. Method of producing dicalcium silicate alpha hydrate. 3,131,024, 4–28–64, Cl. 23—110.

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Leinert, Paula: *See*—
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Leinhos, Russell F., to The J. Dixon, Crucible Co. Stopper rod assemblies. 3,126,593, 3–31–64, Cl. 22—85.

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Leininger, Alfred E., to Ford Motor Co. Windshield wiper mechanism. 3,125,777, 3–24–64, Cl. 15—250.14.

Leininger, Alfred E., and M. E. Lickert, to Ford Motor Co. Plastic-metal joint. 3,162,279, 12–22–64, Cl. 189—36.5.

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Wilson, Lawrence F., and Leipold. 3,131,638.

Leis, Robert F., to General Electric Co. Anti-icing valve means. 3,123,283, 3–3–64, Cl. 230—114.

Leisenheimer, George. Fluid mix apparatus for meat curing plants. 3,135,288, 6–2–64, Cl. 137—553.

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Leitheiser, Robert H., to Dow Corning Corp. Mixed trisiloxanes. 3,122,579, 2–25–64, Cl. 260—448.2.

Leithiser, George L., Jr. Pulley assemblage for supporting electrical transmission lines. 3,145,016, 8–18–64, Cl. 254—134.3.

Leitmann, William J., to Rohden Mfg. Co., Inc. Knob spring. 3,130,990, 4–28–64, Cl. 287—53.

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Mulch, Hans. 3,159,933.
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Staubach, Heinrich. 3,163,701.

Leitz, Ernst, G.m.b.H., Optische Werke: *See*—
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Leitz, Ernst, and W. Stein, to Ernst Leitz Gesellschaft mit beschrankter Haftung. Combined view and range finder for cameras. 3,125,623, 3–17–64, Cl. 88—2.4.

Leitz, Ludwig, H. I. Staubach, and K. Jensen, to Ernst Leitz, G.m.b.H. Objective adjusting means. 3,118,359, 1–21–64, Cl. 95—45.

Lejeune, Emile, and J. Boutin. Pulping machine. 3,138,336, 6–23–64, Cl. 241—73.

Le Jeune, Frank H., to Kelsey-Hayes Co. Tubeless tire rim structure. 3,118,484, 1–21–64, Cl. 152—410.

Le Jeune, Frank H., to Kelsey-Hayes Co. Tubeless tire rim structure. 3,118,485, 1–21–64, Cl. 152—410.

Lejon, Jean C., to Controle Bailey. Analog computer amplifier with transformer input. 3,157,782, 11–17–64, Cl. 235—193.

Lekas, John P., to Alwac International. Air-spaced magnetic disc recorder. 3,131,395, 4–28–64, Cl. 346—74.

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Leland, Ragnvald G. Fountain paint roller assembly. 3,135,-006, 6–2–64, Cl. 15—575.

Leland, Robert W.: *See*—
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Leliaert, Raymond M., to Bell Intercontinental Corp. Method and means for deflashing or trimming molder rubber parts. Re. 25,554, 4–14–64, Cl. 51—13.

Leliaert, Raymond M., to Bell Intercontinental Corp. Method and apparatus for deflashing parts. 3,137,101, 6–16–64, Cl. 51—13.

Lelis, John. Testing stand. 3,130,580, 4–28–64, Cl. 73—118.

Lellep, Otto G., to Allis-Chalmers Mfg. Co. Shaft kiln. 3,140,864, 7–14–64, Cl. 263—29.

Leloup, Marcel. Mouthpiece for reed instruments. 3,150,-554, 9–29–64, Cl. 84—383.

Lemack, Noel I.: *See*—
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Jewell, Robert A., and Lemacks. 3,126,209.

Lemahieu, Antoinette M. C.: *See*—
Freitag, Auguste M. A. 3,151,362.

Lemaire, Frans C. Fire detectors. 3,117,311, 1–7–64, Cl. 340—233.

Lemaire, Gerard: *See*—
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Lemaitre, Rene, to Societe Indatom. Nuclear fuel rods. 3,147,192, 9–1–64, Cl. 176—72.

Lemann, Stephen B.: *See*—
Scurlock, John T. 3,137,307.

Lemanski, Joseph S.: *See*—
Palmer, Charles E., and Lemanski. 3,130,894.

Le Massena, Robert A., to Minneapolis-Honeywell Regulator Co. Measuring apparatus. 3,144,295, 8–11–64, Cl. 346—109.

Le Mauviel, Paul J., to Phillips-Eckardt Electronic Corp. Potted right angle terminal support adapted for use with printed circuit boards. 3,154,631, 10–27–64, Cl. 174—52.

Lemelson, Jerome H. Extrustion apparatus. Re. 25,570, 5–5–64, Cl. 18—12.

Lemelson, Jerome H. Automatic warehousing system. 3,119,501, 1–28–64, Cl. 214—16.4.

Lemelson, Jerome H. Riding toy. 3,137,510, 6–16–64, Cl. 280—1.22.

Lemelson, Jerome H. Plastic inflatable toys. 3,142,932, 8–4–64, Cl. 46—40.

Lemelson, Jerome H. Printing process. 3,146,144, 8–25–64, Cl. 156—234.

Lemelson, Jerome H. Apparatus for making a lenticular display sheet. 3,146,492, 9–1–64, Cl. 18—10.

Lemelson, Jerome H. Marking dart game. 3,147,011, 9–1–64, Cl. 273—106.5.

Lemelson, Jerome H. Wheel inspection apparatus. 3,148,-535, 9–15–64, Cl. 73—67.5.

Lemelson, Jerome H. Method of fabricating an envelope. 3,150,473, 9–29–64, Cl. 53—28.

Lemelson, Jerome H. Ultrasonic tool. 3,154,890, 11–3–64, Cl. 51—59.

Lemelson, Jerome H. Inflatable pocketed target device. 3,163,-419, 12–29–64. Cl. 273—105.

Le Men, Jean, to R. Bellon. Method for extraction of paravallaridine and derivatives thereof. 3,137,691, 6–16–64, Cl. 260—239.57.

Le Men, Jean, to R. Bellon. Process of producing steroid compounds with a γ-lactone (18→20) group. 3,150,128, 9–22–64, Cl. 260—239.57.

Le Men, Jean, to R. Bellon. Paravallaridine compounds and derivatives and process of making same. 3,161,636, 12–15–64, Cl. 260—239.57.

Lemens, Donald J., to McGraw-Edison Co. Protective means for shunt capacitor bank. 3,123,741, 3–3–64, Cl. 317—12.

Lemens, Donald J., to McGraw-Edison Co. Shunt capacitor bank. 3,158,784, 11–24–64, Cl. 317—12.
Lemesle, Georges: *See*—
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Lemesle, Georges, R. Roche, and P. Rougé, to Commissariat a l'Energie Atomique. Devices for supporting at least the solid moderator of a nuclear reactor having vertical channels. 3,119,746, 1–28–64, Cl. 176—50.
Lemesle, Georges, R. Manes, and P. Rouge, to Commissariat a l'Energie Atomique. Solid moderator stack for nuclear reactors. 3,152,965, 10–13–64, Cl. 176—84.
Lemetre, Giacomo, R. Orlandi, and C. A. Pauri, to Bombrini Parodi-Delfino Societa per Azioni. Apparatus for the catalytic oxidation, in liquid phase, of organic materials. 3,161,476, 12–15–64, Cl. 23—288.
Lemforder Metallwarengesellschaft m.b.H., Firma: *See*—
Szonn, Reinhold E., and Reuter. 3,144,247.
Lemieux, George E., to Ford Motor Co. Infinitely variable drive transmission. 3,152,490, 10–13–64, Cl. 74—688.
Le Mieux, Pierre J., to Sylvania Electric Products, Inc. Method of treating semiconductor devices. 3,163,568, 12–29–64, Cl. 156—17.
Lemieux, Roger J., to Northern Electric Co. Ltd. Method of sealing joints in plastic coated electrical cables. 3,122,-597, 2–25–64, Cl. 264—229.
Lemin, Alan J., to The Upjohn Co. 2-halo- and 2,4-dihaloalkylphenyl carbamates. 3,131,215, 4–28–64, Cl. 260—479.
Lemin, Alan J., A. Steinhards, and G. Swank, to The Upjohn Co. Herbicidal composition and method. 3,152,881, 10–13–64, Cl. 71—2.5.
Lemin, Alan J., A. Steinhards, and G. Swank, to The Upjohn Co. Herbicidal composition and method. 3,152,883, 10–13–64, Cl. 71—2.5.
Lemin, Alan J., A. Steinhards, and G. Swank, to The Upjohn Co. Herbicidal composition and method. 3,152,884, 10–13–64, Cl. 71—2.6.
Lemm, Lester F., and H. W. Beeson, 6/12 to C. A. Bauer, 3/12 to L. F. Lemm, and 3/12 to R. P. Swift. Method and apparatus for aircraft control of airport landing lights. 3,117,299, 1–7–64, Cl. 340—26.
Lemm, Lester F., and H. W. Beeson, 1/3 each to J. E. McCroy, J. I. Adams, and T. Baker Method and apparatus for aircraft control of airport landing lights 3,121,857, 2–18–64, Cl. 340—25.
Lemmens, Hendrikus J.: *See*—
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Lemmer, Horace. Dual section rupturing disc. 3,123,250, 3–3–64, Cl. 220—89.
Lemmerich, Jost, to Siemens Schuckertwerke Aktiengesellschaft. Method for improving the breakdown strength and corona resistance of olefin polymers with perhalogenized hydrocarbons. 3,126,358, 3–24–64, Cl. 260—45.7.
Lemmerman, Carl W. Wall and door structure for a sound proof room. 3,120,295, 2–4–64, Cl. 189—46.
Lemmerz, Paul, to Lemmerz-Werke G.m.b.H. Method of fastening the rim and body of a vehicle wheel. 3,145,457, 8–25–64, Cl. 29—159.01.
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Lemmon, Norman E., and F. W. Schuessler, to Standard Oil Co. White oil manufacture. 3,150,078, 9–22–64, Cl. 208—268.
Lemmond, Everett C. Apparatus for selecting and combining small parts of poultry. 3,127,975, 4–7–64, Cl. 198—32.
Lemon, Cecil G., to Unipak Overseas Ltd. Cartons. 3,116,-851, 1–7–64, Cl. 220—105.
Lemon, Cecil G. Fishing device. 3,153,298, 10–20–64, Cl. 43—42.03.
Lemon, John W., Jr., to Robotron Corp. Switching circuit employing bistable devices to selectively control the charge time for switching. 3,129,344, 4–14–64, Cl. 307—88.5.
Lemon, Robert C.: *See*—
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Davies, Edward R., Bowen, and Lemon. 3,144,107.
Lemon, Russel C., P. C. Johnson, and J. M. Berty, to Union Carbide Corp. Selective non-catalytic, vapor phase oxidation of saturated aliphatic hydrocarbons to olefin oxides. 3,132,156, 5–5–64, Cl. 260—348.
Lemonnier, Pierre L. A., to M.T.I. Le Materiel Technique Industrial. Reversing relays having increased cut-off power. 3,155,790, 11–3–64, Cl. 200—87.
Lemons, Roy, to Drilling Control Corp. Whipstock apparatus and method of using the same. 3,116,799, 1–7–64, Cl. 175—61.
Lempco Products, Inc.: *See*—
Strnad, James J., and Van Auken. 3,120,799.
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Lems, Peter, to Signode Steel Strapping Co. Strap chute. 3,118,368, 1–21–64, Cl. 100—26.
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Hoeckelman, Ralph F., Lenard, and Rickel. 3,154,450.
Lend, John R. Instrument for cleaning hypodermic syringes and the like. 3,149,360, 9–22–64, Cl. 15—118.
Lender, Robert J., and J. Gugliotta, to Daystrom Inc. Permanent magnet core type electrical instrument. 3,119,-962, 1–28–64, Cl. 324—151.
Lenders, Wilhelmus L. L., Van Hirtum, and De Cock, to North American Philips Co., Inc. Vibrator. 3,133,627, 5–19–64, Cl. 198—220.
Lenehan, Bernard E., to Westinghouse Electric Corp. Frequency compensation for alternating current instruments. 3,125,722, 3–17–64, Cl. 324—142.
Lenehan, Bernard E., to Westinghouse Electric Corp. Quantity measuring apparatus using a pulse recorder. 3,148,-329, 9–8–64, Cl. 324—113.
Lenel, Fritz V.: *See*—
Radtke, Schrade F., and Lenel. 3,138,851.
Lenel, Fritz V., to Lead Industries Assn., Inc. Atomized lead-aluminum alloy powder article. 3,139,334, 6–30–64, Cl. 75—.5.
Leney, Thomas F., to Sylvania Electric Products Inc. Transistorized power control circuits. 3,152,299, 10–6–64, Cl. 323—22.
Lenfant, Andre L., to Ateliers Vaucanson. Graph recorders. 3,135,574, 6–2–64, Cl. 346—23.
Lengsfeld, Karl: *See*—
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Lengsfield, Byron H., Jr. Separable carton. 3,142,378, 7–28–64, Cl. 206—65.
Lengyel, Charles N., to Kropp Speed-Way, Inc. Chain link tool. 3,147,585, 9–8–64, Cl. 59—7.
Lenhard, Robert H.: *See*—
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Nejedly, Miroslav. 3,130,251.
Leningradsky Nauchno-Issledovatelsky Institute Antibiotikov: *See*—
Coolbach, Valter O., Raygorodskaia, and Efimova. 3,160,640.
Lenk, Herbert H., to Avco Corp. Self-quenched super-regenerative circuit utilizing variable impedance diode in quenching circuit. 3,135,921, 6–2–64, Cl. 325—429.
Lenk, Walter, to Barmer Maschinenfabrik Aktiengesellschaft. Rotatable yarn guides adapted for use on double twist spindles. 3,133,403, 5–19–64, Cl. 57—58.86.
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Lentz, Lawrence R., and F. A. Westenkirchner, to Champion Spark Plug Co. Spark plug electrode. 3,119,944, 1–28–64, Cl. 313—141.
Lentz, Norman E., to Bell Telephone Laboratories, Inc. Nonsaturating transistor blocking oscillator. 3,133,208, 5–12–64, Cl. 307—88.5.
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Leon, Edward, E. D. Weil, and J. Linder, to Hooker Chemical Corp. Preparation of trichlorofuroylchloride. 3,158,624, 11–24–64, Cl. 260—347.3.

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Leonard, Frederick, and K. Undheim, to Geigy Chemical Corp. Certain aminoisoxazolone derivatives. 3,152,139, 10–6–64, Cl. 260—307.

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Leonard, Louis H., Jr., to Carrier Corp. Refrigeration apparatus. 3,123,984, 3–10–64, Cl. 62—125.

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Lepper, Wilhelm. On-load transformer tap changer. 3,138,671, 6–23–64, Cl. 200—11.

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Lerner, Henry C. Soldering tip. 3,125,055, 3–17–64, Cl. 113—105.

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Leslie, Harry A., F. K. Holbrook, and R. A. Andrews, to Brown Citrus Machinery Corp. Method and apparatus for producing citrus juices. 3,161,123, 12–15–64, Cl. 100—37.
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Lessard, Gerald A. A. Multi-unit kiln for the production of lightweight aggregate. 3,155,380, 11–3–64, Cl. 263—32.
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Le Tourneau, Robert G. Control mechanism for pivotable device. 3,142,197, 7–28–64, Cl. 74—422.
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Leven, Samuel, to Joy Mfg. Co. Compressor. 3,145,916, 8–25–64, Cl. 230—211.

Levenberg, Nat. Door safety guard constructions. 3,137,042, 6–16–64, Cl. 20—16.

Levenberg, Nat. Kitchen cabinets. 3,149,587, 9–22–64, Cl. 108—152.

Levendusky, Joseph A., to Union Tank Car Co. Resin transfer system. 3,130,151, 4–21–64, Cl. 210—33.

Levene, Martin L.: *See*—
Lauxen, Carl, Levene, and Nettleton. 3,123,677.

Levengood, William C., to Ball Bros. Co., Inc. Method for providing improved diffraction grated lines on glass body surface. 3,130,098, 4–21–64, Cl. 156—15.

Levenson, Irving B.: *See*—
Davis, William R. 3,149,769.

Leventhal, Harold A. Diaper rinsing device. 3,142,068, 7–28–64, Cl. 4—1.

Lever Bros. Co.: *See*—
Best, Georg P. 3,130,164.
Bright, Willard M. 3,156,655.
Deith, Geoffrey W. 3,153,915.
Euwe, Gerrit E. 3,153,309.
Evans, Michael E., and Hartmann. 3,151,991.
Finsberg, Arne. 3,116,912.
Hay, Donald I., Schram, and Wagg. 3,151,028.
Higgs, Cyril E. 3,146,917.
Kelly, William A. 3,150,097.
Kelly, William A. 3,155,624.
Lamberti, Vincent. 3,150,156.
Lardelli, Guido, Begemann, Harkes, and Van Der Zijden. 3,151,128.
Lepore, George S. 3,147,876.
Logez, Maurice, and Marquant. 3,150,476.
Pader, Morton. 3,163,546.
Reid, Edward J. 3,158,487.
Thompson, Stuart W. 3,132,951.
Thompson, Stuart W. 3,144,341.
Van Dorp, David A., and Van Der Steen. 3,143,554.
Wilson, James H. 3,150,098.

Leverett, Edward G., to Jabsco Amp Co. Multiple rotary pumps of the flexible-vane type. 3,122,102, 2–25–64, Cl. 103—117.

Levering, Dewey R., to Hercules Powder Co. Catalytic hydrogenation of nitriles. 3,152,184, 10–6–64, Cl. 260—570.9.

Leverton, Walter F.: *See*—
Hagen, Lawrence M., and Leverton. 3,149,216.

Le Vesconte, Ed. to H. S. Crocker Co., Inc. Denestable stack of frozen food containers. 3,154,215, 10–27–64, Cl. 220—97.

Levesque, George N., to Brown & Sharpe Mfg. Co. Permanent magnetic block. 3,142,787, 7–28–64, Cl. 317—159.

Levesque, Pascal, to Raytheon Co. Titanium ceramic bond using an intermediate layer of nickel. 3,137,385, 6–16–64, Cl. 206—.4.

Levesque, Paul E.: *See*—
Reed, Sherman K., Levesque, Pianfetti, and Vessey. 3,138,545.

Levesque, Robert L., and R. M. Babcock, to General Electric Co. Gas turbine engine cooling arrangement. 3,142,155, 7–28–64, Cl. 60—39.66.

Levey, Maurice, and S. T. Michaelson. Exhaust gas suppressor for motor vehicles. 3,153,579, 10–20–64, Cl. 23—260.

Levey, Ralph P., Jr., to United States of America, Atomic Energy Commission. Ultra-high pressure device. 3,123,862, 3–10–64, Cl. 18—16.

Levi, Enrico, to Polytechnic Institute of Brooklyn. Magnetic amplifier for active direct current loads. 3,162,803, 12–22–64, Cl. 323—89.

Levi, Julius, and G. Tadiello, to S. Blickman, Inc. Laboratory cabinet. 3,119,643, 1–28–64, Cl. 312—343.

Levick, Herbert, to Stelma, Inc. Signal distortion analyzer. 3,129,286, 4–14–64, Cl. 178—69.

Le Vie, Max H. P. A.: *See*—
Sinclair, Frederick W., and Le Vie. 3,160,285.

Levin, Hy R.: *See*—
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Levin, Nathan, to Textile Machine Works. Patterned fabric. 3,124,948, 3–17–64, Cl. 66—179.

Levin, Simon. Magnetostrictive record and recording apparatus. 3,144,520, 8–11–64, Cl. 179—100.2.

Levin, William S., to United States of America, Navy. Triangular wave generator. 3,138,767, 6–23–64, Cl. 331—144.

Levine, Alfred B., ½ to B. Haskell. Electrical process. 3,144,650, 8–11–64, Cl. 346—74.

Levine, Beth. Footwear with heel-follower. 3,142,910, 8–4–64, Cl. 36—2.5.

Levine, Caroline G.: *See*—
Levine, Sumner N. and C. G. 3,122,843.

Le Vine, Donald J., to International Telephone and Telegraph Corp. Microwave resistance measuring system including thermoplastic microstrip coupler. 3,136,946, 6–9–64, Cl. 324—58.5.

Levine, Harvey, to Radio Corp. of America. Apparatus for and method of cutting and forming wire sections. 3,151,635, 10–6–64, Cl. 140—71.

Levine, Harvey, to Radio Corp. of America. Apparatus for producing heaters for plural purpose vacuum tubes. 3,151,637, 10–6–64, Cl. 140—71.5.

Levine, Irving E., to California Research Corp. Production of organic compounds containing carbon-to-carbon double bonds in terminal positions only. 3,154,594, 10–27–64, Cl. 260—683.

Levine, Lawrence B.: *See*—
Hofer, Walter D. 3,155,170.

Levine, Max, and B. M. Kuhn, to Hercules Powder Co. Modified stereo regulated polyolefin filamentary articles and process for producing such articles. 3,159,449, 12–1–64, Cl. 8—130.1.

Levine, Nathan B., to Carolyn Chenilles, Inc. Tail puller attachment for tufting machines. 3,138,844, 6–30–64, Cl. 26—2.

Levine, Samuel G., and M. E. Wall, to United States of America, Agriculture. Addition of hypohalites to unsaturated steroids. 3,124,570, 3–10–64, Cl. 260—239.55.

Levine, Samuel W., to Fairchild Camera and Instrument Corp. Cold cutting technique for half-tone electronic engraving. 3,128,337, 4–7–64, Cl. 178—6.6.

Levine, Sumner N. and C. G. Electrical question and answer matching device. 3,122,843, 3–3–64, Cl. 35—9.

Levine, Walter E., to Edwards Co., Inc. Electromagnetic bell striker actuating assembly. 3,139,565, 6–30–64, Cl. 317—172.

Levine, Zelda B. Guard for garbage disposal. 3,161,360, 12–15–64, Cl. 241—100.5.

Levinn, Robert N., and J. Reingruber, to American Thermostat Corp. Thermostat with compound bimetallic strip. 3,160,010, 12–8–64, Cl. 73—363.5.

Levinos, Steven: *See*—
Evans, Helene D., Mueller, and Levinos. 3,118,767.
Evans, Helene D., Mueller, and Levinos. 3,147,119.

Levinos, Steven, to General Aniline & Film Corp. Photopolymerization and stratum transfer process. 3,138,460, 6–23–64, Cl. 96—28.

Levinson, David J. Means for shifting the phase of polarization in high frequency wave guides. 3,161,839, 12–15–64, Cl. 333—31.

Levinson, Donald B., to Hughes Aircraft Co. Time delay relay. 3,144,591, 8–11–64, Cl. 317—142.

Levinson, Donald B., to General Precision Inc. Blocking oscillator. 3,155,843, 11–3–64, Cl. 307—88.5.

Levinson, Donald B., and E. Lindell, to General Precision, Inc. Control system for magnetic memory drum. 3,147,462, 9–1–64, Cl. 340—174.1.

Levinson, John O.: *See*—
Morrison, Joseph I., Morrison, and Levinson. 3,136,086.

Levinson, Louis E. Boats. 3,121,238, 2–18–64, Cl. 9—1.

Levinson, Louis E. Amphibious vehicles. 3,134,991, 6–2–64, Cl. 9—1.

Levinson, Solomon, to Vitramon Inc. Method of molding and a ceramic binder formulation. 3,125,618, 3–17–64, Cl. 264—63.

Levis, William W., Jr.: *See*—
Langdon, William K., Jaul, and Levis. 3,154,544.
Weipert, Eugene A., and Levis. 3,154,552.

Levite, Robert C. Hairbrush having a multi-position handle. 3,135,001, 6–2–64, Cl. 15—144.

Leviton, Abraham, and M. J. Pallansch, to United States of America, Agriculture. Process for preparing sterilized milk concentrates. 3,119,702, 1–28–64, Cl. 99—212.

Leviton, Robert: *See*—
Sissenwine, Norman, Leviton, and Campen. 3,149,491.

Levitt, Edward: *See*—
Butterfield, James F. 3,122,966.

Levitt, Milton R., to The Scholl Mfg. Co., Inc. Stretchable surgical pad. 3,119,390, 1–28–64, Cl. 128—153.

Levitt, Semond: *See*—
Tenenbaum, Paul, Bohlen, and Levitt. 3,141,697.

Levitz, Norman M.: *See*—
Knudsen, Irving E., Jonke, and Levitz. 3,160,471.

Levizzani, Norberto, to Ponteggi Tubolari-Dalmine Innocenti S.p.A. Scaffolding-brace lock. 3,122,385, 2–25–64, Cl. 287—53.5.

Levko, Leo. Necktie knot simulator. 3,146,467, 9–1–64, Cl. 2—153.

Levkoff, David. Egg carton. 3,158,309, 11–24–64, Cl. 229—28.

Levkoff, Henry S. Carton. 3,158,310, 11–24–64, Cl. 229—31.

Levolor Lorentzen, Inc.: *See*—
Lorentzen, Hans K., and Anderle. 3,136,357.

Levon, Ernest F.: *See*—
Cusic, John W., and Levon. 3,159,635.

Levy, Bernard D.: *See*—
Cohen, Irvin, and Levy. 3,160,054.

Levy, Carol L. Closure assembly with movable fluid applicator. 3,157,905, 11–24–64, Cl. 15—517.

Levy, Edward M., to Reflector Hardware Corp. Garment rack. 3,119,497, 1–28–64, Cl. 211—178.
Levy, Edward R., and D. N. Smith, Jr., to Chemagro Corp. Process of preparing trans,1,2-bis(N-propylsulfonyl) ethylene. 3,117,069, 1–7–64, Cl. 204—158.
Levy, Ernest, Jr.: *See*—
Muchnick, Paul, and Levy. 3,122,694.
Levy, Harold H., and J. M. Hovey, to United States of America, Navy. Asymmetric free running oscillator. 3,125,730, 3–17–64, Cl. 331—55.
Levy, Irving M., and R. W. Leland, to General Motors Corp. Electric motor starting circuits. 3,146,387, 8–25–64, Cl. 318—112.
Levy, Joseph: *See*—
Mayer, Joseph H., and Levy. 3,136,762.
Levy, Leonard: *See*—
Shapiro, Morris, and Levy. 3,132,742.
Levy, Lester. D.C. power supply for isolated loads. 3,145,-305, 8–18–64, Cl. 307—41.
Levy, Maurice M., and B. A. Arnoti, to Her Majesty The Queen in the right of Canada as represented by the Postmaster General. Article holder and conveyor system. 3,129,824, 4–21–64, Cl. 214—6.
Levy, Morris: *See*—
Kahn, Julius M., and Levy. 3,130,712.
Levy, Morris D., to David Kahn, Inc. Writing instrument unit. 3,138,142, 6–23–64, Cl. 120—45.4.
Levy, Morris D., to David Kahn, Inc. Writing instrument. 3,145,412, 8–25–64, Cl. 15—569.
Levy, Pierre B., and J. A. Buron, to Sud-Aviation Societe Nationale de Constructions Aeronautiques. Plural electrically short concatenated coaxial stub antennas useful with aircraft. 3,151,327, 9–29–64, Cl. 343—705.
Levy, Richard A.: *See*—
Sabia, Danial J. 3,126,206.
Levy, Sidney. Spray gun. 3,144,210, 8–11–64, Cl. 239—415.
Levy, Sol A., Jr.: *See*—
Olsen, Horace W. 3,156,126.
Levy, Solomon C. Refuse receptacle. 3,149,809, 9–22–64, Cl. 248—99.
Levy, William G. Utility box seat. 3,145,646, 8–25–64, Cl. 100—34.
Lew, Dong W.: *See*—
Quinn, John J., and Lew. 3,152,801.
Lew, Henry Y., to California Research Corp. Flexible films from unsaturated polyesters. 3,160,678, 12–8–64, Cl. 260—861.
Lew, Henry Y., to California Research Corp. Unsaturated polyester flexible films. 3,160,679, 12–8–64, Cl. 260—861.
Lew, Kai M., to Ametek, Inc. Shirt folding machine. 3,161,-333, 12–15–64, Cl. 223—37.
Lew, Marshall: *See*—
Johnson, Wayne W., Lew, and McElwain. 3,137,654.
Lewella Foundations, Inc.: *See*—
Welsch, Samuel L. 3,161,201.
Lewanda, Morton C. Apparatus for developing fingerprints with ultraviolet light. 3,148,277, 9–8–64, Cl. 250—65.
Lewandowski, Edward J.: *See*—
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Lewenstein, Mozes J.: *See*—
Fishman, Jack. 3,135,758.
Fishman, Jack. 3,153,042.
Fishman, Jack. 3,162,639.
Lewin, Gerhard, to Engelhard-Hanovia, Inc. Electrical discharge device. 3,132,279, 5–5–64, Cl. 313—290.
Lewin, Herman, and E. Landa. Tool sales display theft alarm. 3,127,597, 3–31–64, Cl. 340—280.
Lewin, Leonard, to International Standard Electric Corp. Waveguide mode-suppressing filter. 3,132,314, 5–5–64, Cl. 333—98.
Lewin, Menachem, to The Government of Israel on behalf of the State of Israel. Fire-proofing lignocellulosic structures with bromine and chlorine compositions. 3,150,919, 9–29–64, Cl. 8—115.6.
Lewin, Morton H., and J. A. Rajchman, to Radio Corp. of America. Punchable memory card having printed circuit thereon. 3,142,823, 7–28–64, Cl. 340—173.
Lewinstein, Marcus, and W. G. Harries, to Electro-Mechanical Research, Inc. Amplitude distribution telemetering. 3,122,732, 2–25–64, Cl. 340—345.
Lewis, Alan M.: *See*—
Denning, Ralph M., and Lewis. 3,145,953.
Lewis, Allen I.: *See*—
Field, Alexander L., Jr., Ammon, and Lewis. 3,140,943.
Field, Alexander L., Jr., Lewis, and Ammon. 3,136,635.
Richardson, Lee S., Lewis, and France. 3,160,501.
Lewis, Armand F.: *See*—
Forrestal, Lloyd J., and Lewis. 3,155,744.
Lewis, Arthur R., and L. Nugent, to Maidenform, Inc. Girdles. 3,133,541, 5–19–64, Cl. 128—540.
Lewis, Bernard R., L. S. Singer, and M. Kaplan, to General Water Conditioning, Inc. Support means for spray type containers. 3,118,645, 1–21–64, Cl. 248—312.
Lewis, Billy E., to F. Jos. Lamb Co. Pusher type conveyor. 3,160,263, 12–8–64, Cl. 198—174.
Lewis, Burton F., to The U.S. Baird Corp. Inclinable four-side metal forming machine. 3,146,516, 9–1–64, Cl. 29—34.
Lewis, Charles: *See*—
Schroeder, William, Lewis, Hoeksema, Eble, and Bannister. 3,125,567.
Lewis, Charles E.: *See*—
Tsang, Sien M., and Lewis. 3,151,106.
Lewis, Charles R., and S. E. Hornacek, to Chicago Curled Hair Co. Shock-absorbing device. 3,145,837, 8–25–64, Cl. 206—46.
Lewis, Charles T. Gripping device. 3,122,806, 3–3–64, Cl. 24—123.
Lewis, Charles W.: *See*—
Berg, Daniel, and Lewis. 3,138,683.
Lewis, Clifford J.: *See*—
Drobnick, James L., and Lewis. 3,156,524.
Lewis, Donald A., to Martin-Marietta Corp. Self-adjusting, quick disconnect connector. 3,126,213, 3–24–64, Cl. 285—61.
Lewis, Dong S.: *See*—
Steinman, Harold G., and Lewis. 3,137,904.
Lewis, Douglas R. Torque converter. 3,154,964, 11–3–64, Cl. 74—472.
Lewis, Edward, Jr. Disposable examination garment. 3,154,-789, 11–3–64, Cl. 2—104.
Lewis, Edward J.: *See*—
Sayre, Charles H., Lewis, and O'Brien. 3,154,844.
Lewis, Elizabeth B.: *See*—
Lewis, Reed M., deceased (by E. B. Lewis, executrix). 3,153,575.
Lewis Engineering Co.: *See*—
Blackwell, Dana J. 3,143,098.
Knudsen, Knud J. 3,156,118.
McCall, Clarence I. 3,155,362.
Lewis, Frank C.: *See*—
Stark, Marvin L., and Lewis. 3,120,225.
Stark, Marvin L., and Lewis. 3,153,256.
Lewis, Frederick W., to The Telex Corp. Electromagnetically coupled hearing aid. 3,125,646, 3–17–64, Cl. 179—107.
Lewis, G. B., Co.: *See*—
Olson, Elmer E. 3,141,123.
Lewis, Geoffrey A.: *See*—
Young, John M. C., and Lewis. 3,140,368.
Lewis, George E.: *See*—
Buckreus, Allan J., Grasham, and Lewis. 3,149,594.
Lewis, Gregory A.: *See*—
Stilwell, Robert E., Fitz, Maurice, and Lewis. 3,119,403.
Lewis, Griffith B., to Fulton Fastener Corp. Thermal protector tube and shield. 3,138,992, 6–30–64, Cl. 89—36.
Lewis, Harry S., and F. McGuirk, to Chamberlain & Hookham Ltd. Cyclically operated switch control apparatus. 3,123,683, 3–3–64, Cl. 200—38.
Lewis, Hector E.: *See*—
Crowell, Alice R., and Lewis. 3,138,156.
Lewis, Henry W., and L. A. Bergen, to United States of America, Navy. Explosive actuated circuit breaker. 3,118,-986, 1–21–64, Cl. 200—82.
Lewis, Henry W., and L. A. Bergen, to United States of America, Navy. Electrical connector of the pressure-actuated type having fast-acting switching unit. 3,120,-591, 2–4–64, Cl. 200—82.
Lewis, Henry W., and T. F. Birchall, to The Ingersoll Milling Machine Co. Machine for operating on elongated workpieces. 3,157,333, 11–17–64, Cl. 226—135.
Lewis, Howard A.: *See*—
Cioccio, Armand, Frazier, Grant, and Lewis. 3,137,823.
Lewis, Howard B., Jr., to Consolidated Electrodynamics Corp. Air dead weight tester. 3,133,435, 5–19–64, Cl. 73—4.
Lewis, James C., and M. C. Neuman, to United States of America, Navy. Retractable rail assemblies. 3,138,989, 6–30–64, Cl. 89—1.7.
Lewis, Jesse H., to The Celotex Corp. Acoustical tile, methods, and compositions. 3,132,956, 5–12–64, Cl. 106—71.
Lewis, John C., Jr.: *See*—
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Lewis, John G.: *See*—
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Lewis, John M., to J. C. Thompson Tool & Die, Inc. Micrometer method. 3,120,053, 2–4–64, Cl. 29—407.
Lewis, Joseph R., to Philco Corp. Electrical systems. 3,128,-451, 4–7–64, Cl. 340—171.
Lewis, Karl R., to Browning Industries, Inc. Hammer safety for fire arms. 3,157,958, 11–24–64, Cl. 42—70.
Lewis, Karl R., and B. W. Browning, to Browning Industries, Inc. Adjustable butt stock. 3,137,958, 6–23–64, Cl. 42—73.
Lewis, Lawrence, to United States of America, Atomic Energy Commission. Grain refinement of uranium billets. 3,122,-458, 2–25–64, Cl. 148—11.5.
Lewis, Lloyd G., and L. G. Whitesell, to Standard Oil Co. Kinematic viscosimeter. 3,137,161, 6–16–64, Cl. 73—55.
Lewis, Louis S., and I. Cooper, to Marson Corp. Masking products for automotive vehicles being spray painted. 3,130,078, 4–21–64, Cl. 118—505.
Lewis, Mary L. Portable folding ironing board. 3,128,726, 4–14–64, Cl. 108—112.
Lewis, Morgan J. Rack. 3,118,542, 1–21–64, Cl. 211—89.
Lewis, Oliver N., and C. J. De Caro, to Olin Mathieson Chemical Corp. Propellent cartridge. 3,162,125, 12–22–64, Cl. 102—43.
Lewis, Reed M., deceased (by Elizabeth B. Lewis, executrix). Treatment of spent pickle liquor and preparation of sulfuric acid. 3,153,575, 10–20–65, Cl. 23—126.
Lewis Refrigeration Co.: *See*—
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Lewis, Richard L.: *See*—
Zebarth, Ralph S., Lewis, and Franta. 3,145,415.
Zebarth, Ralph S., Lewis, and Franta. 3,159,870.

Lewis, Richard L., and L. J. Larsen, to The Bendix Corp. Control valve. 3,119,235, 1–28–64, Cl. 60—54.5.
Lewis, Robert A., to Kaiser Aluminum & Chemical Corp. Metallurgy. 3,151,053, 9–29–64, Cl. 204—244.
Lewis, Robert B. Independent study center construction. 3,160,451, 12–8–64, Cl. 312—194.
Lewis, Robert E., to United States of America, Atomic Energy Commission. Method for conversion of cesium alum to radiation source material. 3,124,538, 3–10–64, Cl. 252—301.1.
Lewis, Robert H.: *See*—
Rosen, Norman J., Lewis, and Stanley. 3,156,793.
Lewis, Robert O., Jr.: *See*—
Jenny, Robert W., and Lewis. 3,145,954.
Lewis, Robert P.: *See*—
Ray, De La Verne, Lewis, and Tanguay. 3,117,451.
Lewis, Roy K. Bow casting device. 3,129,525, 4–21–64, Cl. 43—19.
Lewis, Roy W., to Lone Star Boat Co. Retractable hatch and windshield combination for boats. 3,161,895, 12–22–64, Cl. 9—1.
Lewis, Samuel. Tire dolly. 3,126,111, 3–24–64, Cl. 214—334.
Lewis, Samuel. Animal feeding device. 3,134,360, 5–26–64, Cl. 119—51.
Lewis, Samuel. Baseball glove and tethered ball. 3,153,537, Cl. 273—26.
Lewis, Samuel. Body borne charge firing arrangement. 3,157,957, 11–24–64, Cl. 42—1.
Lewis, Samuel L., to Golden Shore Seafoods, Inc. Commercial cooking apparatus. 3,135,190, 6–2–64, Cl. 99—443.
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Becker, Bernard B. 3,162,317.
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Lewis, Ted W., R. H. Howard, and J. N. Worthy. Metal frame structure and preformed structural units comprising the same. 3,143,165, 8–4–64, Cl. 160—394.
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Minckler, Leon S., Jr., Cottle, and Lewis. 3,147,316.
Wood, Donald W., Lewis, Johnson, and Kirshenbaum. 3,153,076.
Lewis, Thomas E.: *See*—
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Lewis, Wallace E., and H. R. Humphreys, Jr. Pulley rings for purse seines. 3,158,951, 12–1–64, Cl. 43—8.
Lewis, Walter E.: *See*—
Keeling, Kermit B., Sr., and Lewis. 3,151,612.
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Lewis, Willard D.: *See*—
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Cerasani, Americo J., Codichini, Davis, and Lewis. 3,135,810.
Eichorn, Roger H., and Lewis. 3,149,760.
Herbert, Michael V., Lewis, and Mallinson. 3,158,996.
Mayo, Clyde R., Lewis, and Clark. 3,135,433.
Lewis, William G., and J. G. Balmer, Jr., to Xerox Corp. Paper catch tray. 3,154,356, 10–27–64, Cl. 312—60.
Lewis, William H., to Acme-McCrary Corp. Apparatus for varying the number of courses in knitted articles. 3,139,742, 7–7–64, Cl. 66—155.
Lewis, William H. Pavement finisher. 3,147,678, 9–8–64, Cl. 94—45.
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Owl, George A., Jr., Ley, and Beck. 3,137,460.
Ley, Erich J., ⅓ to J. Lory. Language instruction devices. 3,118,235, 1–21–64, Cl. 35—35.
Ley, Kurt, H. Freytag, E. Roos, and W. Lohmar, to Farbenfabriken Bayer Aktiengesellschaft. Process for stabilizing liquid fuels. 3,149,933, 9–22–64, Cl. 44—75.
Ley, Kurt, F. Lober, T. Kempermann, and H. Pohle, to Farbenfabriken Bayer Aktiengesellschaft. Alkylated amino phenols protecting rubber goods against ozone. 3,161,612, 12–15–64, Cl. 260—45.9.
Ley, Willi: *See*—
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Lima, Daniel A., to FMC Corp. Process for hydrogenating nitrosamines. 3,154,538, 10–27–64, Cl. 260—239.

Limanek, Stephen J., to Texaco Development Corp. Well production method using radioactive tracers to establish two null position. 3,123,708, 3–3–64, Cl. 250—43.5.

Limberger, Walter, to Lumoprint Zindler KG. Method and an apparatus for developing copies. 3,117,507, 1–14–64, Cl. 95—89.

Limberger, Walter, to Lumoprint Zindler KG. Device and a method for the production of copies. 3,127,825, 4–7–64, Cl. 95—77.5.

Limberger, Walter, to Lumoprint Zindler Kg. Apparatus for shaping workpieces. 3,138,424, 6–23–64, Cl. 346—33.
Limberger, Walter, to Lumoprint Zindler K.G. Method for developing films, a device and a material for carrying out this method. 3,142,241, 7–28–64, Cl. 95—89.
Limberger, Walter, to Lumoprint Zindler KG. Apparatus for diffusion developing. 3,143,056, 8–4–64, Cl. 95—89.
Limberger, Walter, to Lumoprint Zindler KG. Accessory apparatus for copying devices and a copying device therefor. 3,143,947, 8–11–64, Cl. 95—75.
Limberger, Walter, to Lumoprint Zindler K. G. Apparatus for developing copies. 3,147,686, 9–8–64, Cl. 95—89.
Limberger, Walter, to Lumoprint Zindler KG. Apparatus for producing copies. 3,152,532, 10–13–64, Cl. 95—77.5.
Limberger, Walter, to Lumoprint Zindler K.G. Copying devices. 3,153,480, 10–20–64, Cl. 206—47.
Limberger, Walter, to Lumoprint Zindler KG. Thermographic apparatus for copying images. 3,157,786, 11–17–64, Cl. 250—65.
Limberger, Walter, to Lumiprint Zindler KG. Device for producing copies. 3,163,099, 12–29–64, Cl. 95—75.
Lime, Jean, to Societe Alsacienne De Constructions Mechaniques. Cylinder support means for rotary printing machine. 3,161,127, 12–15–64, Cl. 101—153.
Limpert, Alexander S. and R. J. Small volume feeder pump and process of proportional feeding. 3,128,782, 4–14–64, Cl. 137—1.
Limpert, Robin J.: *See*—
Limpert, Alexander S. and R. J. 3,128,782.
Lin, Hung C., to Westinghouse Electric Corp. Semiconductor potentiometer. 3,152,840, 10–13–64, Cl. 307—88.5.
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Ergott, Harold L., Jr., Linardos, and O'Connell. 3,152,264.
Linares, Robert C., Jr.: *See*—
Ballman, Albert A., Linares, and Van Uitert. 3,152,085.
Linares, Robert C., Jr., to Bell Telephone Laboratories, Inc. Garnet growth from barium oxide-boron oxide flux. 3,117,934, 1–14–64, Cl. 252—62.5.
Linck, Edward: *See*—
McMillan, Stewart H., Mottin, Sutton, MacDonald, and Linck. 3,123,217.
Lincoln Brass Works: *See*—
Blanzy, Eugene J. 3,131,752.
Linclon, Henry A.: *See*—
Klein, Walter A., and Linclon. 3,153,599.
Lincoln, John D., to Continental Can Co., Inc. Ceramic honeycomb. 3,137,602, 6–16–64, Cl. 156—89.
Lincoln Laboratories, Inc.: *See*—
Diamond, Julius. 3,159,650.
Lincoln, Lewis L.: *See*—
Heseltine, Donald W., and Lincoln. 3,125,448.
Lincoln, Paul A., to Ingersoll-Rand Co. Rock drill. 3,154,-158, 10–27–64, Cl. 175—135.
Lincoln Precision Machining Co.: *See*—
Skerry, George A. 3,163,399.
Skerry, George A. 3,163,400.
Lincoln, Robert N., P. R. Madsen, and H. W. Sudden, to Pet Milk Co. Angular tumbling screw blender. 3,161,403, 12–15–64, Cl. 259—30.
Lincoln, Roland L., to Fuller Co. Apparatus for separating solid material from gas. 3,158,455, 11–24–64, Cl. 55—292.
Lincoln Textile Products Co., Inc.: *See*—
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Lind, Arthur C., and W. J. Katz, to Chain Belt Co. Peripheral-feed clarification tank. 3,136,724, 6–9–64, Cl. 210—519.
Lind, Charles J., and C. A. Warren, to Allied Chemical Corp. Production of 1,4-dinitro-2,3,5,6-tetraalkylbenzenes. 3,153,-099, 10–13–64, Cl. 260—645.
Lind, Erwin, to Kalle Aktiengesellschaft. Method and apparatus for the negative reproduction of masters on a copy bearer utilizing a heat absorbing layer. 3,120,611, 2–4–64, Cl. 250—65.
Lind, Orbie E., Jr., to Mansfield Industries, Inc. Automatic exposure control camera. 3,116,669, 1–7–64, Cl. 95—10.
Lind, Orbie E., Jr., and M. K. Carr, to Argus Inc. Camera focusing mount. 3,147,682, 9–8–64, Cl. 95—45.
Lind, Raymond E., and R. J. Venn, Sr., to Remington Arms Co., Inc. Hand guard for file. 3,121,938, 2–25–64, Cl. 29—78.
Lind, Wallace E.: *See*—
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Lind, Wilton H.: *See*—
Aroyan, Harry J., Lind, and Johnson. 3,159,553.
Lindaberry, Harold L. Valve means for agricultural feeders and spreaders. 3,163,333, 12–29–64, Cl. 222—268.
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Lindberg, Arla V.: *See*—
Lindberg, Paul G. (deceased), and A. V. 3,162,098.
Lindberg, Birger A., to Minneapolis-Honeywell Regulator Co. Igniter. 3,139,558, 6–30–64, Cl. 317—98.
Lindberg Engineering Co.: *See*—
Malinowski, Chester A. 3,134,836.
Lindberg, Hans: *See*—
Andersson, Axel E., and Lindberg. 3,125,142.
Lindberg, John E. Method of making heat sensors. 3,153,-846, 10–27–64, Cl. 29—400.
Lindberg, John E. Fire detector circuit arranged to prevent false warning. 3,161,864, 12–15–64, Cl. 340—214.
Lindberg, John E., Jr. Heat detection. 3,122,728, 2–25–64, Cl. 340—229.
Lindberg, John E., Jr. Apparatus for transferring heat. 3,125,159, 3–17–64, Cl. 165—86.
Lindberg, John E., Jr. Method of making heat sensors. 3,153,847, 10–27–64. Cl. 29—400.
Lindberg, John E., Jr. Prevention of false warning. 3,154,-772, 10–27–64, Cl. 340—229.
Lindberg, John E., Jr. Replenishable fire detector. 3,161,-865, 12–15–64, Cl. 340—229.
Lindberg, Paul G. (deceased), Lindberg, A. V. Fluid actuator. 3,162,098, 12–22–64, Cl. 92—13.
Lindberg, Paul W.: *See*—
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Lindberg, William S.: *See*—
Hoven, Alfred C., Lindberg, Nordmark, and Shore. 3,137,527.
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Kyle, Harold E., Knap, and Lindblad. 3,159,679.
Lindblad, Frederick W. Circular saw and method of making the same. 3,146,561, 9–1–64, Cl. 51—206.4.
Lindblad, Frederick W. Grinding wheel. 3,161,995, 12–22–64, Cl. 51—209.
Lindblad, Stig M. Safety belt buckles. 3,142,103, 7–28–64, Cl. 24—230.
Lindblad, Stig M. Safety belt buckle. 3,153,270, 10–20–64, Cl. 24—230.
Lindblom, Gordon P., and J. T. Patton, to Jersey Production Research Co. Substituted heteropolysaccharide. 3,163,-602, 12–29–64, Cl. 252—8.55.
Lindblom, Sven E., S. H. Tjernström, and K. H. S. Hellman, to Wargons Aktiebolag and Svenska Maskinverken, AB. Reduction furnace provided with superstructure. 3,129,-274, 4–14–64, Cl. 13—9.
Linde, Hilding, to Maskinfabriks Aktiebolaget Norrbacken. Refuse collecting container with a feed screw. 3,127,008, 3–31–64, Cl. 198—213.
Linde, Gerhard, R. Becker, and J. Reyhing, to Gesellschaft fur Linde's Eismaschinen Aktiengesellschaft Zweigniederlassung Hollriegelskreuth. Water removal and low temperature separation of hydrocarbon mixtures. 3,163,511, 12–29–64, Cl. 62—18.
Lindeboom, Herman.: *See*—
Biello, Stephen J., and Lindeboom. 3,153,423.
Lindell, Edward: *See*—
Levinson, Donald B., and Lindell. 3,147,462.
Lindeman, Richard J. and A. T. Monaco, to Motorola, Inc. Channel tuner having two sets of rotatably mounted adjustable cams respectively controlling channel skipping and channel fine tuning. 3,136,966, 6–9–64, Cl. 334—21.
Lindeman, Warren C., to Crotty Corp. Water ski safety belt. 3,137,015, 6–16–64, Cl. 9—340.
Lindemann, Hans, to Th. Calow & Co. Method for the peeling of elongated work pieces tending to buckling. 3,132,564, 5–12–64, Cl. 90—24.
Lindemann, Hans, to Th. Calow & Co. Method and machine for scalping metal rod stock. 3,142,228, 7–28–64, Cl. 90—24.
Lindemann, Martin K., to Air Reduction Co., Inc. Aqueous film forming compositions containing polyvinyl alcohol and phosphate ester. 3,157,611, 11–17–64, Cl. 260—29.6.
Lindemann, Robert E.: *See*—
Harris, Thomas S., Jr., and Lindemann. 3,120,585.
Reif, Peter M., and Lindemann. 3,140,091.
Lindemann, Robert E., to Harris-Intertype Corp. Method and mechanism for handling piled sheets. 3,148,780, 9–15–64, Cl. 214—6.
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Van Endert, Fritz. 3,146,819.
Lindemann, Waldemar, and F. Van Endert; said Van Endert assor. to said Lindemann. Machine for preparing scrap metal. 3,141,401, 7–21–64, Cl. 100—98.
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Mueller, Rolf K., and Lindemann. 3,121,186.
Linden, Gustave B.: *See*—
Gaspar, Bela, and Linden. Re. 25,586.
Linden, Henry R.: *See*—
Eakin, Bertram E., and Linden. 3,151,416.
Shultz, Eugene B., Jr., and Linden. 3,150,657.
Linden, Henry R., and E. B. Shultz, Jr., to Institute of Gas Technology. Appliance for production of direct electric current. 3,146,131, 8–25–64, Cl. 136—86.
Linden, Samuel, to Bunny Bear, Inc. Chair bed. 3,132,897, 5–12–64, Cl. 297—322.
Lindenauer, Abraham, to American Cyanamid Co. Process for producing polyester resins using combustion gases to maintain an elevated boil-up rate. 3,127,377, 3–31–64, Cl. 260—75.
Lindenauer, Abraham, and R. N. Housekeeper, to American Cyanamid Co. Process for producing polyester resins using a sparge of vaporized, normally-liquid, inert, water-immiscible organic solvent to maintain an elevated boil-up rate. 3,127,376, 3–31–64, Cl. 260—75.
Lindenberger, Alex J., to The Cincinnati Milling Machine Co. Dispensing mechanism. 3,141,591, 7–21–64, Cl. 225—12.
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Jucker, Ernst, and Lindenmann. 3,162,651.
Jucker, Ernst, Lindenmann, and Gmunder. 3,119,845.
Jucker, Ernst, Lindenmann, and Gmünder. 3,125,568.
Lindenthal, John W., to Engelhard Industries, Inc. Slip casting method. 3,163,688, 12–29–64, Cl. 264—56.
Linder, Bernd, and E. L. Ahlstrom, to Avco Mfg. Corp. Means for and method of collecting staple fibers. 3,125,-847, 3–24–64, Cl. 57—58.89.
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Newcomer, Jack S., Weil, Dorfman, and Linder. 3,136,-810.
Newcomer, Jack S., Weil, Dorfman, and Linder. 3,158,-645.
Weil, Edward D., Dorfman, and Linder. 3,134,808.
Weil, Edward D., and Linder. 3,158,650.
Weil, Edward D., Linder, Dorfman, and Newcomer. 3,154,399.
Linder, Lowell E. Ammunition reloading apparatus. 3,153,-976, 10–27–64, Cl. 86—26.
Linder, Marshall L., to Mo-Mac Mfg. Co., Inc. Gelatin molds. 3,128,724, 4–14–64, Cl. 107—19.
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Linderholm, Sven O., to The Ohio Brass Co. Capacitor cooling. Re. 25,644, 9–22–64, Cl. 317—243.
Linderholm, Sven O., to The Ohio Brass Co. Wound series capacitor. 3,163,807, 12–29–64, Cl. 317—260.
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Linderman, Garrett B., to Linderman Engineering Co., Inc. Light shield for pinhole detectors. Re. 25,646, 9–22–64, Cl. 250—229.
Linderman, Garrett B., and H. T. Gibson, to Linderman Engineering Co., Inc. Automatically positioned light shield for photosensitive pinhole detector. 3,125,682, 3–17–64, Cl. 250—219.
Lindermeier, Franz, to M. Hohner, Inc. Mouthpiece operated wind musical instrument with piano keyboard. 3,145,608, 8–25–64, Cl. 84—375.
Lindgren, Bo Gustav A., to Telefonaktiebolaget L M Ericsson. Overvoltage arrester having a light dispersion of fine metallic dust on its inside walls. 3,162,741, 12–22–64, Cl. 200—113.5.
Lindgren, Carl O., and B. Zettergren, to Atlas Copco Aktiebolag. Feeding devices for rock drills. 3,149,540, 9–22–64, Cl. 91—411.
Lindgren, Erik A. Shielding enclosure. 3,153,692, 10–20–64, Cl. 174—35.
Lindgren, Frank T. Bifurcated golf club handle. 3,123,-359, 3–3–64, Cl. 273—81.3.
Lindgren, James R.: *See*—
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Lindgren, Nils K., to Electrolux, Aktiebolaget. End bells for electric motors. 3,161,794, 12–15–64, Cl. 310—89.
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Lindgren, William L., to Turner Corp. Backfire torch. 3,125,-153, 3–17–64, Cl. 158—33.
Lindgren, William L., to Turner Corp. Portable torch. 3,143,107, 8–4–64, Cl. 126—271.2.
Lindgren, William L., and M. Lagreid, to Turner Corp. Center vented pressure container. 3,143,253, 8–4–64, Cl. 222—396.
Lindheim, Stephen W.: *See*—
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Lindholm, Arthur W., to Independent Die & Supply Co. Scrap rejecters for cutting dies for blanks. 3,148,572, 9–15–64, Cl. 83—145.
Lindholm, Frank J., to Signode Steel Strapping Co. Strapping machine. 3,118,367, 1–21–64, Cl. 100—4.
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Lindlaw, William. Suspensions of pigments and other particles. 3,123,488, 3–3–64, Cl. 106—268.
Lindley, Frederick A., Jr., to Lockheed Aircraft Corp. Magnetically operated reed switch. 3,147,350, 9–1–64, Cl. 200—87.
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Deyerling, Gerard P., and Lindley. 3,156,321.
Lindley, William L. Integral wheel, drum, and tire rim for a vehicle. 3,135,556, 6–2–64, Cl. 301—6.
Lindley, William L. Tire buffer support. 3,141,490, 7–21–64, Cl. 152—158.
Lindley, William L. Wheel rim attachment for a tubeless tire. 3,142,326, 7–28–64, Cl. 152—158.
Lindlof, James A., and D. E. Wurster, to Wisconsin Alumni Research Foundation. Apparatus for coating particles in a fluidized bed. 3,117,027, 1–7–64, Cl. 118—303.
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Lindmark, Bo M., to Broderna Hedlund, A.B. Beam-welding machine. 3,159,129, 12–1–64, Cl. 113—131.
Lindmark, Howard C. Shoe cleaning tool. 3,121,899, 2–25–64, Cl. 15—237.
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Lindner, Ernst: *See*—
Ehrhart, Gustav. Ott and Lindner. 3,152,173.
Schmitt, Karl, Hennig, Lindner, and Ott. 3,151,158.
Lindner, Fritz, K. H. Wallhäuser, and A. Mager, to Farkwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for preparing 6-amino-penicillanic acid. 3,127,326, 3–31–64, Cl. 195—36.
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Stade, Gerhard H., and Stahn. 3,137,103.
Lindner, Kurt, and E. Eichler, to Henkel & Cie, G.m.b.H. Washing and bleaching. 3,131,991, 5–5–64, Cl. 8—137.
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Lindquist, James J., A. R. Sjovold, and V. R. Bauman, to North American Aviation, Inc. Dynamic error calibrator. 3,148,527, 9–15–64, Cl. 73—3.
Lindquist, Robert H., and R. O. Billman, to California Research Corp. Hydrocarbon conversion catalyst. 3,140,-925, 7–14–64, Cl. 252—441.
Lindquist, Robert M., to International Business Machines Corp. Vesicular photographic reproduction process utilizing a volatile liquid modifying agent. 3,120,437, 2–4–64, Cl. 96—49.
Lindqvist, Sven G. A. Rowlocks. 3,118,156, 1–21–64, Cl. 9—26.
Lindsay, Edward R., Jr. *See*—
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Phillips, Richard M., and Lindsay-Scott. 3,130,869.
Phillips, Richard M., and Lindsay-Scott. 3,130,870.
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Lindsey, Elbert B. Thread tensioning device. 3,146,969, 9–1–64, Cl. 242—150.
Lindsey, George A. Teat cup for milking machines. 3,148,-661, 9–15–64, Cl. 119—14.5.
Lindsey, Joe P., and O. C. Montgomery, to Phillips Petroleum Co. Switch circuit for signal sampling system with glow transfer tubes and gating means providing sequential operation. 3,133,254, 5–12–64, Cl. 328—104.
Lindsey, Joe P., and J. O. Rice, to Phillips Petroleum Co. Signal correlation measurement. 3,163,750, 12–29–64, Cl. 235—181.
Lindsey, L. E. Power cable suspension assembly. 3,155,354, 11–3–64, Cl. 248—63.
Lindsey, Richard S. Stock market game. 3,163,424, 12–29–64, Cl. 273—135.
Lindsey, Richard V., and W. J. Middleton, to E. I. du Pont de Nemours and Co. Perfluoropinacol and synthesis thereof. 3,121,121, 2–11–64, Cl. 260—633.
Lindsey, William C., to Jersey Production Research Co. Valve for well pipe. 3,126,965, 3–31–64, Cl. 166—68.
Lindsjo, Anders F. N., and J. I. R. Boivie, to Electrolux, Aktiebolaget. Resilient mounting for motor-fan unit. 3,143,284, 8–4–64, Cl. 230—235.
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Lindstrom, Georg, to Sveremo Aktiebolag. Method of mounting a roof construction in a cistern. 3,130,488, 4–28–64, Cl. 29—428.
Lindström, Olle, to Allmanna Svenska Elektriska Aktiebolaget. Method of regulating the operation of homogeneous nuclear reactors. 3,152,031, 9–29–64, Cl. 176—20.
Lindström, Rikard E. Arrangement for the aerobic biological transformation of organic waste material. 3,136,608, 6–9–64, Cl. 23—259.1.
Lindstrom, Roald E., and J. O. Winget, to United States of America, Interior. Process for recovering ethylenediaminetetraacetic acid (EDTA) from copper-EDTA-ion exchange effluent solutions. 3,138,637, 6–23–64, Cl. 260—534.

Lindway, Andrew S., and J. M. Anderson, to Allis-Chalmers Mfg. Co. Bushing assembly for electrical apparatus. 3,153,114, 10–13–64, Cl. 174—18.
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Lineback, Thomas J. Inflatable mattress or the like. 3,128,480, 4–14–64, Cl. 5—348.
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Linehan, Irvin D. Clinometer level with rise indicator. 3,160,961, 12–15–64, Cl. 33—210.
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Harrison, Kenneth J. 3,160,400.
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Lineweaver, Jack L., to Corning Glass Works. Prevention of cathode poisoning in an electron tube. 3,138,734, 6–23–64, Cl. 313—291.
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Ling, Andrew T.-A., to Radio Corp. of America. Apparatus for transferring data from punched cards to a memory device. 3,142,042, 7–21–64, Cl. 340—172.5.
Ling, Ku S., to Radio Corp. of America. Automatic brightness control using a light conducting rod and photocell. 3,153,172, 10–13–64, Cl. 315—10.
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Lingle, John T., to Minneapolis-Honeywell Regulator Co. Electrical semiconductor power supply apparatus. 3,127,551, 3–31–64, Cl. 320—1.
Lingo, Robert W.: *See*—
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Linhart, Harry M., to Westinghouse Air Brake Co. Fluid pressure brake apparatus with periodic acknowledgement type safety control. 3,160,444, 12–8–64, Cl. 303—19.
Linhorst, Erwin F., to United States Rubber Co. Apparatus for molding plastic materials. 3,130,450, 4–28–64, Cl. 18—16.
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Woodson, Robert A. 3,145,251.
Link-Belt Co.: *See*—
Carpenter, John M., Sutherland, and Voogt. 3,150,425.
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Koftan, Dick J. 3,161,184.
Plume, William F. 3,150,536.
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Schmid, Hermann. 3,152,249.
Whitmore, John H. 3,155,383.
Link, Fred W., to Cummins Engine Co., Inc. Fuel supply apparatus for internal combustion engine. 3,139,875, 7–7–64, Cl. 123—140.
Link, Harold S., and W. H. Schultz, to United States Steel Corp. Anti-skid tread plate. 3,150,937, 9–29–64, Cl. 29—191.
Link, Manfred, to M. Grundig. Braked tabulating arrangement. 3,151,725, 10–6–64, Cl. 197—176.
Link, Peter J., to Kimberly-Clark Corp. Unwind assembly for a papermaking machine. 3,163,375, 12–29–64, Cl. 242—58.2.
Link, Peter J., and H. F. Metzig, to Kimberly-Clark Corp. Paper slitter with dust removal vacuum device. 3,135,151, 6–2–64, Cl. 83—168.
Linke, Walter R., to Bell & Howell Co. Zoom viewfinder with front diaphragm mask. 3,141,921, 7–21–64, Cl. 88—1.5.
Linke, William F.: *See*—
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Linley, Alfred A., Sr. Trolling sinker. 3,137,962, 6–23–64, Cl. 43—43.13.
Linn, Bruce O., to Merck & Co., Inc. 5-halomethyl derivatives of 6-chromanols and methods for their preparation. 3,160,637, 12–8–64, Cl. 260—345.5.
Linn, Bruce O., C. H. Shunk, and K. Folkers, to Merck & Co., Inc. Chromenyl compounds and method of preparing. 3,154,565, 10–27–64, Cl. 260—345.2.
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Linn, James A., and R. E. Smith, to Burrell Belting Co. Belt shaving machine. 3,156,147, 11–10–64, Cl. 83—5.
Linn, Richard L., to Allis-Chalmers Mfg. Co. Plug in terminal block. 3,146,055, 8–25–64, Cl. 339—176.
Linn, Sidney S., to United States of America, Army. Self balancing centrifugal testing device. 3,138,021, 6–23–64, Cl. 73—167.
Linn, Wallace L., to P.R. Mallory & Co., Inc. Intermittent driving mechanism. 3,144,779, 8–18–64, Cl. 74—125.
Linn, William J. Internal combustion engine and auxiliary manifold air intake therefor. 3,156,225, 11–10–64, Cl. 123—119.
Linn, William J. Air intake fitting for internal combustion engine. 3,156,226, 11–10–64, Cl. 123—119.
Linnenbom, Victor J., and J. W. Swinnerton. Analysis of gases in a liquid solution. 3,150,516, 9–29–64, Cl. 73—19.
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Catling, Harold, De Barr, and Linnert. 3,137,040.
Linnert, Arthur, H. Catling, and A. E. De Barr, to The Cotton Silk and Man Made Fibres Research Association. Regularity control in machines for continuously modifying a property of a material processed thereby. 3,141,202, 7–21–64, Cl. 19—240.
Linnert, George E., and R. H. Espy, to Armco Steel Corp. Stainless steel and article. 3,117,861, 1–14–64, Cl. 75—124.
Linnerz, Wilhelm, to Schloemann Aktiengesellschaft. Cooling of cable sheaths, particularly aluminum cable sheaths. 3,120,305, 2–4–64, Cl. 207—10.
Lino, Joseph A. Information retrieval apparatus. 3,154,942, 11–3–64, Cl. 73—156.
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Linsenmayer, Russel R. Pencil holder for clipboards. 3,127,649, 4–7–64, Cl. 24—66.
Linsenmeyer, John C., to American Radiator & Standard Sanitary Corp. Nuclear reactor. 3,132,999, 5–12–64, Cl. 204—193.2.
Linsk, Jack, to Standard Oil Co. Electrochemical process for the production of organometallic compounds. 3,118,825, 1–21–64, Cl. 204—59.
Linsk, Jack, and E. K. Ives, to Standard Oil Co. Ammonium nitrate gas generator composition. 3,132,059, 5–5–64, Cl. 149—19.
Linsk, Jack, and E. A. Mayerle, to Standard Oil Co. Preparation of organic lead compounds. 3,155,602, 11–3–64, Cl. 204—59.
Linstedt, Hans, to Clevite Corp. Alloying fixture. 3,119,362. 1–28–64, Cl. 113—99.
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Lintner, Orval D. Land measuring caliper. 3,129,514, 4–21–64, Cl. 33—149.
Linton, Ulie C. Mobile trailer. 3,132,758, 5–12–64, Cl. 214—523.
Linton, William C., to Fuse Indicator Corp. Ejector fuse-holder. 3,139,498, 6–30–64, Cl. 200—121.
Linton, William C., to Fuse Indicator Corp. Multiple fuse plug. 3,161,748, 12–15–64, Cl. 200—125.
Linthout, Theodoor H., to L. van der Grinten Chemische Fabriek, N.V. Process and apparatus for the manufacture of photoprints from composed translucent laminar originals. 3,161,121, 12–15–64, Cl. 95—77.5.
Lintvedt, Richard L.: *See*—
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Lipetzky, August J. Power-driven sampling probe for ear corn. 3,157,050, 11–17–64, Cl. 73—425.2.
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Lipinski, Henry S., to United States of America, Army. Separate loading ammunition ramming assist. 3,120,185, 2–4–64, Cl. 102—38.
Lipinski, Henry S., to United States of America, Army. Sliding fin projectile. 3,125,957, 3–24–64, Cl. 102—50.
Lipinski, Henry S., to United States of America, Army. Explosive confinement ring. 3,137,233, 6–16–64, Cl. 102—56.
Lipkin, Sol. Cap. 3,134,983, 6–2–64, Cl. 2—172.
Lipkins, Morton S. Spherical cutting apparatus. 3,159,947, 12–8–64, Cl. 51—33.
Lipkins, Morton S. Spherical cutting apparatus. 3,159,952, 12–8–64, Cl. 51—206.
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Lippert, William G., to Manley, Inc. Control mechanism for popcorn machine. 3,120,168, 2–4–64, Cl. 99—238.3.
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Lippke, Donald E., to Perfection Mfg. Corp. Milking apparatus. 3,139,856, 7–7–64, Cl. 119—14.36.
Lippke, Paul. Instrument for measuring the flat weight of sheet material. 3,143,886, 8–11–64, Cl. 73—432.
Lippmann, Morton, to United States of America, Atomic Energy Commission. Compact cascade impactor. 3,127,763, 4–7–64, Cl. 73—28.
Lippman, Myron E., to Intellux Inc. Potentiometer. 3,150,343, 9–22–64, Cl. 338—174.
Lippold, George L., to Dannen Mills, Inc. Method of desolventizing and toasting soybean meal. 3,126,285, 3–24–64, Cl. 99—98.
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Lipschutz, Frank K. Cap with removable stiffener elements. 3,133,289, 5–19–64, Cl. 2—195.
Lipschutz, Lewis D., to International Business Machines Corp. Web feeding device. 3,151,796, 10–6–64, Cl. 226—97.
Lipschutz, Sidney, and E. H. Barnett, to Chemical Sales, Inc. Stable dispenser package. 3,137,433, 6–16–64, Cl. 229—14.
Lipschutz, Sidney, and E. H. Barnett, to Chemical Sales, Inc. Safety clamp for hose. 3,142,472, 7–28–64, Cl. 251—10.
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Toman, James T. 3,162,094.
Lipson, Milton. Combined flashlight, extension light, continuity and voltage tester. 3,145,337, 8–18–64, Cl. 324—53.
Lipson, Sanford W. Floor mounted dust mop cleaning device. 3,122,772, 3–3–64, Cl. 15—310.
Lipstein, Norman J., to General Electric Co. Air treatment means for domestic cooking appliances. 3,131,688, 5–5–64, Cl. 126—299.
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Lipuma, Charles R., and F. J. Ponzek, to Esso Research and Engineering Co. Method and apparatus for catalyst regeneration. 3,135,700, 6–2–64, Cl. 252—417.
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Liquori, James S. Whirling exerciser toy. 3,140,871, 7–14–64, Cl. 272—74.
Lirette, Edward F. Air intake silencer. 3,120,876, 2–11–64, Cl. 181—50.
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Reichel, Howard G., and Lis. 3,133,574.
Lisanke, Robert J., and R. A. Pike, to Union Carbide Corp. N(beta - hydroxyethyl - beta - aminoethyl) - gamma - aminoisobutylmethylsiloxy - modified dimethylpolysiloxane. 3,152,161, 10–6–64, Cl. 260—448.2.
Lisankie, Jerome R., and P. Von Wiesenthal, to Foster Wheeler Corp. Quench apparatus for reactor tube exits. 3,163,498, 12–29–64, Cl.23—288.
Lisbin, Arthur, to New Jersey Bank and Trust Co. Adjustable leg construction. 3,150,853, 9–29–64, Cl. 248—188.4.
Lisciani, Constantine, to The Protectoseal Co. Fluid transfer system. 3,139,123, 6–30–64, Cl. 141—286.
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Lisczawka, Dorothy. Finger and toe nail moulds for creating artificial finger and toe nails. 3,157,912, 11–24–64, Cl. 18—5.1.
Lish, Paul M., H. D. Bryan, and N. H. Mercer, to Mead Johnson & Co. Ulcer therapy composition and method of using same. 3,155,576, 11–3–64, Cl. 167—55.
Lisicky, Anton J., to United States of America, Navy. Radar sequencer. 3,150,370, 9–22–64, Cl. 343—17.1.
Lisiecki, Robert E., to Ex-Cell-O Corp. Carton ejection means and method. 3,152,525, 10–13–64, Cl. 93—44.1.
Lisinski, Joseph E., to International Business Machines Corp. Incremental drive mechanism. 3,139,763, 7–7–64, Cl. 74—125.
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Liskey, Ernest C., Jr., to Liskey Aluminum, Inc. Elevated sectional floor. 3,150,748, 9–29–64, Cl. 189—34.
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List, Heinz. Gas-tight sealing connection for hydrofluoric acid reaction furnace between screw conveyor charging device and rotating neck of the furnace. 3,148,887, 9–15–64, Cl. 277—65.
Lister, Charles H., Jr. Radiation treatment of citrus fruits. 3,148,990, 9–15–64, Cl. 99—103.
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Liston, Joseph. Liquid propelling device. 3,141,439, 7–21–64, Cl. 115—16.
Liston, Max D., and R. L. Madsen, to Beckman Instruments, Inc. Positive type infrared analyzer. 3,130,302, 4–21–64, Cl. 250—43.5.
Lita, William, and D. Werba. Spraying attachment for lawn mower. 3,151,563, 10–6–64, Cl. 103—54.
Litalien, Lawrence J., and J. Duthaveck. Glass mold having two detachable interfitted sections. 3,140,166, 7–7–64, Cl. 65—356.
Litchfield, William H., to Gulf Oil Corp. Method for decomposing sulfuric acid sludge. 3,146,067, 8–25–64, Cl. 23—177.
Litel, John B. Comminuting ashtray. 3,155,327, 11–3–64, Cl. 241—56.
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Litsky, Leonard A., to The Farnir Bearing Co. Method of making self-aligning bearings. 3,126,613, 3–31–64, Cl. 29—149.5.
Litsky, Leonard A., to The Fafnir Bearing Co. Method of making antifriction bearings. 3,162,930, 12–29–64, Cl. 29—149.5.
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Littell, Frederick M., and C. M. Wiig, to F. J. Littell Machine Co. Oscillating die and punch press combination. 3,122,042, 2–25–64, Cl. 83—215.
Littell, Frederick M., and G. A. Sykes, to F. J. Littell Machine Co. Device for modifying rotary machine. 3,162,055, 12–22–64, Cl. 74—84.
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Little, Thomas H., to Pennsalt Chemicals Corp. Animal fatty tissue defatting process. 3,141,774, 7–21–64, Cl. 99—18.
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Littwin, Arthur K., to A. K. and R. L. Littwin, and H. A. Young, as trustees. Automatic motor reversing at limit of travel by variable transformer means. 3,129,369, 4–14–64, Cl. 318—282.
Littwin, Arthur K., to A. K. Littwin; R. L. Littwin and H. A. Young, trustees. Movement control apparatus. 3,136,-216, 6–9–64, Cl. 90—11.
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Livingston, Malcolm R., to Celanese Corp. of America. Bulky yarn and method of producing the yarn. 3,153,316, 10–20–64, Cl. 57—144.
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Lizza, Albert J., and A. L. Montana, to United States of America, Army. Cooperating barrel locking and safety device. 3,120,713, 2–11–64, Cl. 42—70.
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Ljunggren, Thor H. (deceased), by T. L. Ljunggren, executrix. Valve structure in high performance servo system. 3,163,-179, 12–29–64, Cl. 137—625.21.
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Lloyd, William G., and T. E. Durocher, to The Dow Chemical Co. Magnesium oxychloride cements. 3,130,174, 4–21–64, Cl. 260—41.
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Loeb, Sidney, and S. Sourirajan, to The Regents of the University of California. High flow porous membranes for separating water from saline solutions. 3,133,132, 5–12–64, Cl. 264—49.
Loeb, Sidney, S. Sourirajan, and D. E. Weaver, to The Regents of the University of California. High flow porous membranes for separating water from saline solutions. 3,133,137, 5–12–64, Cl. 264—233.
Loebe, Wolfram: *See*—
Herrmann, Karl-Heinz, Loebe, and Wilke. 3,151,241.
Loeber, Norman C., to International Business Machines Corp. Core storage configuration. 3,143,728, 8–4–64, Cl. 340—174.
Loebli, Bela. Automatic shoe shining device. 3,143,752, 8–11–64, Cl. 15—31.
Loebner, Egon E., to Sylvania Electric Products Inc. Electroluminescent color image device. 3,152,222, 10–6–64, Cl. 178—5.4.
Loeckenhoff, Herbert E., to Litton Systems, Inc. Space-charge field precipitation method. 3,129,157, 4–14–64, Cl. 204—180.
Loeffel, Emil, to H. K. Metalcraft Mfg. Corp. Misfeed detectors. 3,124,026, 3–10–64, Cl. 83—62.
Loeffel, Emil, to H. K. Metalcraft Mfg. Corp. Reciprocating air nozzle for punch press machines. 3,124,027, 3–10–64, Cl. 83—98.
Loeffel, Hansrolf: *See*—
Mory, Rudolf, Loeffel, and Ronco. 3,124,568.
Loeffen, Lucas W.: *See*—
Van Tol, Hendrikus J. M., Alma, Loeffen, and Klopping. 3,119,945.
Loeffler, Kay O.: *See*—
Dorion, George H., and Loeffler. 3,127,335.
Loeffler, Lawrence A., and F. E. Lyon, to The Landers Corp. Apparatus for the extrusion coating of fabric or like materials. 3,155,540, 11–3–64, Cl. 118—60.
Loegering, George A., M. R. Kinsler, and R. T. Lancet, to North American Aviation, Inc. Asymmetric hyper-velocity leading edges. 3,128,067, 4–7–64, Cl. 244—117.
Loehnert, Eric, to Sperry Rand Corp. Hay baler. 3,134,321, 5–26–64, Cl. 100—98.
Loehrke, Harry F., to Owens-Illinois Glass Co. Manufacture of glass for electron tube envelopes. 3,121,628, 2–18–64, Cl. 65—18.
Loening, Werner F. R., to United States of America, Air Force. Process for tin coating copper plated magnesium. 3,129,111, 4–14–64, Cl. 117—51.
Loeper, Robert P.: *See*—
Chapman, John L., Jr., and Loeper. 3,123,543.
Loeper, Robert P., to Western Electric Co., Inc. Method and apparatus for attaching articles to a strip. 3,123,703, 3–3–64, Cl. 219—103.
Loertscher, John F., Jr.: *See*—
Wallace, Burgess P., Melcher, and Loertscher. 3,140,887.
Loesch, Ronald E., to General Motors Corp. Switch and mounting means. 3,121,854, 2–18–64, Cl. 338—173.
Loescher, Richard A., to Kimberly-Clark Corp. Cellulosic product. 3,161,336, 12–15–64, Cl. 225—106.
Loeser, Donald B., to Paper Machinery Corp. Heat sealing device for side seams of paper cups. 3,134,307, 5–26–64, Cl. 93—36.1.
Loetel, Charles E.: *See*—
Fordyce, Homer E., and Loetel. 3,143,498.
Loetscher, Robert F. Wood joints. 3,145,435, 8–25–64, Cl. 20—92.
Loev, Bernard: *See*—
Hoover, John R. E., and Loev. 3,117,126.
Kormendy, Minerva F., and Loev. 3,153,051.
Lafferty, John J., and Loev. 3,143,549.
Lafferty, John J., and Loev. 3,147,305.
Loev, Bernard, to Smith Kline & French Laboratories. 1*a*,7*b*-dihydro-1H-cyclopropa [c] quinolines. 3,141,888, 7–21–64, Cl. 260—289.
Loev, Bernard, to Smith Kline & French Laboratories. Method of preparation of heterocyclic compounds. 3,149,106, 9–15–64, Cl. 260—243.
Loev, Bernard, and J. T. Massengale, to Pennsalt Chemicals Corp. Thiuronium halides. 3,123,636, 3–3–64, Cl. 260—552.
Loev, Bernard, and J. W. Wilson, to Smith Kline & French Laboratories. Tertiary alkyl esters of thiolcarbamic acid. 3,134,799, 5–26–64, Cl. 260—455.
Loevenstein, Hirsch, to Harvey Aluminum Inc. Separating iron from aqueous aluminum salt solutions. 3,122,491, 2–25–64, Cl. 204—112.
Loevenstein, Hirsch, to Harvey Aluminum. Process for desulfurizing petroleum coke. 3,130,133, 4–21–64, Cl. 202—31.
Loew, Gunther: *See*—
Merten, Rudolf, Bayer, Simmler, and Loew. 3,134,741.
Loew, Günther, and G. Horl. Preparation of cellular polyurethane plastics resembling natural sponge. 3,125,540, 3–17–64, Cl. 260—2.5.
Loew, Harold F., A. L. Gaines, E. M. Bullen, and J. H. Hargis, to Combustion Engineering, Inc. Vapor generator having design provisions for the removal of high temperature vapor therefrom. 3,162,177, 12–22–64, Cl. 122—32.
Loew, Harold L.: *See*—
Bloch, Jack, and Loew. 3,143,371.
Loewe, George R., to Automatic Electric Laboratories, Inc. Amplifier and clamp circuit for pulse communication system. 3,140,352, 7–7–64, Cl. 179—15.
Loewe Opta A.G.: *See*—
Frank, Egon. 3,158,690.
Kapteyn, Paul. 3,162,786.
Kapteyn, Paul, and Schmidt. 3,134,547.
Loewe, Siegmund, deceased; B. Lowe, executor. Magnetic sound recording and reproducing apparatus. 3,155,334, 11–3–64, Cl. 242—55.12.
Loewen, Bruno F., to Phillips Petroleum Co. Apparatus for handling pellets of powdered material. 3,126,577, 3–31–64, Cl. 18—1.
Loewenstein, Paul: *See*—
Klein, Joseph L., Kaufmann, and Loewenstein. 3,140,108.
Loewenstein, Walter B., to United States of America, Atomic Energy Commission. Fast reactor core. 3,140,234, 7–7–64, Cl. 176—17.
Loewenthal, Henry J., and E. H. Magester, to General Electric Co. Cabinet construction. 3,129,841, 4–21–64, Cl. 220—62.
Loewy Engineering Co. Ltd., The: *See*—
Elkan, Robert M. L., and Samuel. 3,139,183.
Elger, Ronald J., Billen, Vom Dorp, and Buse. 3,156,359.
Rosenthal, Salli A. 3,147,863.
Salter, Frank S. 3,135,142.
Samuel, Herbert J. 3,141,551.
Schieren, Karl H. 3,127,015.
Loewy Machinery Supplies Co., Inc.: *See*—
Boehme, Herman F. 3,156,072.
Loewy, Raymond. Pneumatic car seat. 3,128,125, 4–7–64, Cl. 297—452.
Lofftus, Fred H.: *See*—
Johnson, Dale E., and Lofftus. 3,161,701.
Quirk, John F., and Lofftus. 3,137,657.
Lofgren, Nils M., and C. P. Tegner, to Astra, Apotekarnes Kemiska Fabriker, Aktiebolaget. Lower alkylaminoacyl amide anesthetics. 3,160,662, 12–8–64, Cl. 260—562.
Lofgren, Sigfrid, to Madrass-Fabriken Dux Aktiebolag. Method of manufacturing upholstery inlays and a machine therefor. 3,137,324, 6–16–64, Cl. 140—3.
Loflin, Claude A., and C. B. Moore, to E. I. du Pont de Nemours and Co. Temperature controlled radiation gage. 3,129,334, 4–14–64, Cl. 250—89.
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Kern, Werner, Schulz, and Löflund. 3,127,374.
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Hansson, Oscar B., Löfstedt, and Nedeby. 3,135,201.
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Suydam, Walter, and Sobek. 3,119,606.
Loftus, Wallace D.: *See*—
Booe, James M., Loftus, and Ralston. 3,148,322.
Logan, Benjamin F., Jr., and A. J. Prestilacomo, to Bell Telephone Laboratories, Inc. Bandwidth reduction system. 3,139,487, 6–30–64, Cl. 179—15.55.

Logan Co.: *See*—
Aho, Arvo O., and Atherton. 3,161,425.
Logan, Dexter J., to North American Aviation, Inc. Weld backup bar and means for assuring complete weld joint penetration. 3,123,705, 3–3–64, Cl. 219—131.
Logan, Donald M.: *See*—
Rutman, Ralph G., and Logan. 3,146,847.
Logan Hospital Equipment Co.: *See*—
Logan, Hugh H. 3,156,977.
Logan, Hugh H., to Logan Hospital Equipment Co. Method of making a grab bar. 3,156,977, 11–17–64, Cl. 29—475.
Logan, James J., to The Bendix Corp. Spark discharge device. 3,146,301, 8–25–64, Cl. 174—152.
Logan, James S.: *See*—
Zaslowsky, Joel A., and Logan. 3,160,538.
Logan, James S., and J. A. Zaslowsky, to Commercial Solvents Corp. Explosive composition comprising ammonium nitrate and a mixture of higher boron hydrides. 3,135,635, 6–2–64, Cl. 149—22.
Logan, James S., and A. Roaldi, to Olin Mathieson Chemical Corp. Stabilized liquid ozone. 3,136,607, 6–9–64, Cl. 23—222.
Logan, James S., and J. A. Zaslowsky, to Commercial Solvents Corp. Explosive composition comprising ammonium nitrate, decaborane and a hydrocarbon oil. 3,150,019, 9–22–64, Cl. 149—22.
Logan, James S., and J. A. Zaslowsky, to Olin Mathieson Chemical Corp. Process for the preparation of sodium borohydride. 3,152,861, 10–13–64, Cl. 23—14.
Logan, Kenneth C., and O. Sepali, to Anglo Paper Products, Ltd. Method for producing wood chips. 3,155,130, 11–3–64, Cl. 144—326.
Logan, Malcolm, to Holi-Gay Mfg. Co. Apparatus for making tinsel garlands. 3,126,694, 3–31–64, Cl. 57—13.
Logan, Maurus C., to The Kent Mfg. Co. Multiple barrel electrical connector. 3,123,664, 3–3–64, Cl. 174—88.
Logan, Maurus C., to The Thomas & Betts Co. Cable bundling and supporting strap. 3,147,523, 9–8–64, Cl. 24—16.
Logan, Ralph A., to Bell Telephone Laboratories, Inc. Logarithmic function generator. 3,129,343, 4–14–64, Cl. 307—88.5.
Logan, Reuben R., ½ to R. V. Dorn. Mailing machines. 3,118,663, 1–21–64, Cl. 271—35.
Logan, Richard S.: *See*—
Whitney, William B., Axe, Logan, and Gragson. 3,135,-693.
Logan, Richard S., to Phillips Petroleum Co. Filtration of petroleum sulfonate slimes. 3,159,670, 12–1–64, Cl. 260—504.
Logan, William: *See*—
Merner, Jack N., Logan, and Oliphint. 3,153,225.
Logemann, Heino, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of polymers from acrylonitrile. 3,135,722, 6–2–64, Cl. 260—85.5.
Logemann, Heino, and W. Lehmann, to Farbenfabriken Bayer Aktiengesellschaft. Homogeneous mixtures of synthetic elastomers and inorganic fillers. 3,122,518, 2–25–64, Cl. 260—41.5.
Logemann, Heino, and E. Roos, to Farbenfabiken Bayer Aktiengesellschaft. Stabilization of acrylonitrile polymers. 3,154,511, 10–27–64, Cl. 260—30.4.
Logemann, Johan D., to Stamicarbon N.V. Preparation of arylnaphthenes from aromatic hydrocarbons. 3,153,678, 10–20–64, Cl. 260—667.
Logemann, Willy: *See*—
Giraldi, Piernicola, Artini, Nannini, and Logemann. 3,118,888.
Logez, Maurice, and P. Marquant, to Lever Bros. Co. Automatic insertion unit. 3,150,476, 9–29–64, Cl. 53—250.
Logie, Robert G., Jr.: *See*—
Heyl, Russell G., Jr., Posh, and Logie. 3,138,402.
Logsdon, Dean M.: *See*—
Krogen, Julius J., and Logsdon. 3,127,712.
Logun, John E.: *See*—
Braun, Ernest, and Logun. 3,154,470.
Lohaüs, Gerhard: *See*—
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Lohaus, Gerhard, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. 4-methyl-6[2-formyl-propene-1-yl]-pyrone-(2) and a process for its manufacture. 3,151,126, 9–29–64, Cl. 260—343.5.
Lohbauer, Kenneth R., to Caterpillar Tractor Co. Control valve. 3,142,962, 8–4–64, Cl. 60—51.
Lohbauer, Kenneth R., and J. E. Scheidt, to Caterpillar Tractor Co. Hydraulic control with mechanically vented pump unloading means. 3,150,685, 9–29–64, Cl. 137—596.13.
Lohe, Konrad: *See*—
Fischer, Ernst, Lohe, and Ribka. 3,132,134.
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Lohmann, Arthur M., to Honeywell Inc. Rotor safety lock for munition fuze. 3,157,125, 11–17–64, Cl. 102—78.
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Ley, Kurt, Freytag, Roos, and Lohmar. 3,149,933.
Roos, Ernst, Lober, and Lohmar. 3,127,353.
Von Brachel, Hanswilli, Lohmar, and Holtschmidt. 3,135,804.
Lohnes, Howard E., to Hallmark Cards, Inc. Snap-open novelty device. 3,134,708, 5–26–64, Cl. 161—14.
Lohr, Joseph B., to Monroe International Corp. Control for card feed. 3,151,863, 10–6–64, Cl. 271—18.
Lohr, Raymond J.: *See*—
Smith, James, Lohr, and Carver. 3,160,983.
Lohr, Raymond J., to Louis Marx & Co., Inc. Gyroscope toy with free wheeling drive and heavy duty bearings for the flywheel. 3,137,966, 6–23–64, Cl. 46—50.
Lohr, Raymond J., and J. J. Dobkowski, to Louis Marx & Co., Inc. Toy railway system. 3,128,977, 4–14–64, Cl. 246—415.
Lohr, Raymond J., and J. J. Dobkowski, to Marx, Louis & Co., Inc. Toy railway system. 3,154,022, 10–27–64, Cl. 104—1.
Lohr, Rudolf, to Goetzewerke Friedrich Goetze Aktiengesellschaft. Oil regulating sealing ring system for internal combustion engines. 3,160,419, 12–8–64, Cl. 277—141.
Lohr, Thomas E., to General Motors Corp. Window regulator. 3,125,334, 3–17–64, Cl. 268—124.
Lohr, Thomas E., to General Motors Corp. Seat adjuster. 3,155,363, 11–3–64, Cl. 248—419.
Lohr, Thomas E., to General Motors Corp. Drive mechanism. 3,159,045, 12–1–64, Cl. 74—411.
Lohr, Thomas E., and H. P. Selleck, to General Motors Corp. Four-way power seat adjuster. 3,125,318, 3–17–64, Cl. 248—419.
Lohringer, Werner, and J. Sixt, to Wacker-Chemie G.m.b.H. Process for manufacturing hydrogen peroxide. 3,124,421, 3–10–64, Cl. 23—207.
Lohs, Willi: *See*—
Engelhart, Leopold, Sommer, Schon, Lohs, Frey, and Holler. 3,117,180.
Lohs, Willy: *See*—
Nitsch, Rudolf, Lohs, Sommer, and Angermaier. 3,150,-244.
Lohse, Karl-Heinz H. W., and M. B. Skolnik, to Ford Motor Co. Apparatus and technique for film developing. 3,149,-550, 9–22–64, Cl. 95—89.
Lohse, Ora F. Silver iodide cloud seeding generator. 3,126,155, 3–24–64, Cl. 239—14.
Lohse, Paul, and T. Jungmayr, to Fr. Hesser Maschinenfabrik-Aktiengesellschaft, Firma. Dispensing machine for filling containers. 3,116,766, 1–7–64, Cl. 141—161.
Loiacano, Leo L., to E. O. LeBlanc. Well completion tool and cementing plug. 3,126,060, 3–24–64, Cl. 166—224.
Loiseleur, Jean, to Compagnie de Saint-Gobain. Method for manufacturing mirrors and article. 3,147,133, 9–1–64, Cl. 117—35.
Loken, Bjarte: *See*—
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Loken, Bjarte, to Phytogen Products, Inc. Method for obtaining sapogenins and useful byproducts from plant materials. 3,136,761, 6–9–64, Cl. 260—239.55.
Lokey, Burke P., to St. Regis Paper Co. Means for scoring sheet workpieces. 3,144,814, 8–18–64, Cl. 93—8.
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Löliger, Willi, to Alpura AG. Method of and apparatus for controlling the end value of the specific gravity of a liquid in plants wherein the liquid is heated by the admixture of steam. 3,150,713, 9–29–64, Cl. 165—19.
Lolley, Raymond A.: *See*—
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Barnett, Louis H., and Davis. 3,144,940.
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Loman, Berend S., to Texas Instruments Inc. Electromagnetic relay. 3,157,764, 11–17–64, Cl. 200—87.
Lombard, Emile J. M. Racing game. 3,120,389, 2–4–64, Cl. 273—86.
Lombard, Georges L. M. J. Method and apparatus for marking the location of the armature to be used with a magnetic latch or the like. 3,142,505, 7–28–64, Cl. 292—251.5.
Lombard Industries, Inc.: *See*—
Brown, Thomas W. 3,140,332.
Lombardi, Louis. Vehicle traction device. 3,144,067, 8–11–64, Cl. 152—228.
Lombardi, Louis J., H. J. Wright, and P. F. Westfall, to Cook Paint & Varnish Co. Coating compositions comprising a water-soluble salt of a vinyl copolymer and a water-soluble epoxy or polyhydroxy compound. 3,118,848, 1–21–64, Cl. 260—29.3.
Lombardo, Peter P., to Cutler-Hammer, Inc. Parametric amplifier with no external idler circuit loading and with isolation of signal and idler frequencies. 3,127,566, 3–31–64, Cl. 330—4.9.
Lombardo, Salvatore, to Innocenti Soc. Gen. per l'Industria Metallurgica e Meccanica. Adjustable tool-holder. 3,116,-653, 1–7–64, Cl. 77—58.
Lombardo, Salvatore, to Innocenti Soc. Gen. per l'Industria Metallurgica e Meccanica. Multiple-tool boring machine head. 3,129,615, 4–21–64, Cl. 77—58.
Lombardy, Frank, and R. M. Lambert, to Johns-Manville Corp. Friction element a clutch facing, and method and apparatus for making same. 3,118,527, 1–21–64, Cl. 192—107.
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Bailey, Ralph C., Lomenzo, and Salzman. 3,141,292.
Loncoske, Richard F., to Hyde Murphy Co. Sound insulating structure. 3,121,262, 2–18–64, Cl. 20—35.
Loncrini, Donald F., to General Electric Co. Derivatives of trimellitic acid anhydrides. 3,140,299, 7–7–64, Cl. 260—346.3.
Londe, Yves E. M.: *See*—
Clergue, Jean M. B., and Londe. 3,118,085.

Londeree, Joseph W.: *See*—
Alper, Allen M., Begley, Londeree, and McNally. 3,132,-953.

London, Bessie P. Massage and exercising apparatus. 3,120,-953, 2–11–64, Cl. 272—58.

London Concrete Machinery Co., Ltd.: *See*—
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London, Joseph C., and J. Garland, to Associated Electrical Industries Ltd. Steam strainers for steam turbine plant. 3,131,042, 4–28–64, Cl. 55—278.

London, Michael J., and W. Deasey. Sound system. 3,144,-092, 8–11–64, Cl. 181—27.

Lonergan, J. E., Co.: *See*—
Smith, Norman J. 3,141,335.

Lones, Dain B., and J. W. Padgett, to The Garrett Corp. Fluid pressure transducer system. 3,123,754, 3–3–64, Cl. 318—32.

Lones, Dain B., and T. L. Hanley, to Northrop Corp. Magnetic accelerometer. 3,152,485, 10–13–64, Cl. 73—517.

Lone Star Boat Co.: *See*—
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Plum, John. 3,149,351.

Long, Anthony E. Fish line sinker holder. 3,120,715, 2–11–64, Cl. 43—43.1.

Long, Arthur H., to Wm. K. Stamets Co. Tapping machine with means to counterbalance tool carriage and work holder. 3,146,472, 9–1–64, Cl. 10—139.

Long, Bernard, to Glaces de Boussois, S.A. Apparatus for and method of splitting glass sheets. 3,116,863, 1–7–64, Cl. 225—2.

Long, Bernard, to G.B.D. Societe Anonyme Holding. Process for making sheet glass. 3,127,261, 3–31–64, Cl. 65—83.

Long, Bernard, to G.B.D. Societe Anonyme Holding. Apparatus for making sheet glass. 3,134,660, 5–26–64, Cl. 65—157.

Long, Bernard, to G.B.D. Societe Anonyme Holding. Apparatus for producing sheet glass. 3,140,164, 7–7–64, Cl. 65—157.

Long, Charles A. External pressure seal for pressure vessels. 3,156,375, 11–10–64, Cl. 220—46.

Long, Charles M., deceased (by A. E. Poisel, administratrix), and C. M. Poisel; said A. E. Poisel, administratrix of Charles M. Long, deceased, assor., to said C. M. Poisel. Water borne debris remover. 3,151,068, 9–29–64, Cl. 210—156.

Long, Dorothy A. Electric steam generator device with brush. 3.158,891, 12–1–64, Cl. 15—504.

Long, Douglas A.: *See*—
Kolster, Harvey L., Burke, and Long. 3,120,199.

Long, Everett, to United Kingdom Atomic Energy Authority. Heat insulation devices. 3,125,160, 3–17–64, Cl. 165—135.

Long, Everett, and W. Rodwell, to United Kingdom Atomic Energy Authority. Nuclear reactors. 3,132,998, 5–12–64, Cl. 204—193.2.

Long, Everett, G. Packman, H. C. Knights, and E. E. Jerkins, to United Kingdom Atomic Energy Authority. Fuel charging/discharging system for gas cooled nuclear reactor. 3,158,544, 11–24–64, Cl. 176—32.

Long, Fleming D.: *See*—
Rabb, Stuart W., Long, and Masi. 3,116,854.

Long, Florren E., to Continental Can Co., Inc. Dispensing package for meat slices and method of dispensing said slices. 3,138,466, 6–23–64, Cl. 99—174.

Long, Florren E., to Continental Can Co., Inc. Collapsible folded bag structure with spaced intermediate folds. 3,144,-931, 8–18–64, Cl. 206—46.

Long, Francis V., to Texas Eastern Transmission Corp. Coaxial mode transmission of carrier currents using insulated buried pipe and surrounding earth. 3,129,394, 4–14–64, Cl. 333—27.

Long, George B.: *See*—
Brucken, Byron L., and Long. 3,154,650.
Jacobs, James W., Brucken, and Long. 3,132,501.

Long, Glen F., to Universal Controls Corp. Recording traffic analyzer. 3,158,687, 11–24–64, Cl. 179—8.

Long, Henry A., to The Marquardt Corp. Pressure ratio sensing device. 3,129,563, 4–21–64, Cl. 60—39.28.

Long, Hubert O. Water skiing apparatus. 3,156,935, 11–17–64, Cl. 9—310.

Long, Hugh M.: *See*—
Aberle, James L., Franier, and Long. 3,122,004.

Long, James A., Jr.: *See*—
Legal, Casimer C., Jr., and Long. 3,129,092.

Long, James G., to Burndy Corp. Multiple electrical connector control elements. 3,125,706, 3–17–64, Cl. 317—101.

Long, James G., to Burndy Corp. Connector for joining the outer conductor of a coaxial cable to a wall. 3,142,721, 7–28–64, Cl. 174—65.

Long, Jasper, to Wade Electric Products Co. Plunger operated brake type switch. 3,134,004, 5–19–64, Cl. 200—159.

Long, John B., Jr.: *See*—
Lauxen, Carl, and Long. 3,156,398.

Long, John B., to Marmon-Herrington Co., Inc. Extensible belt conveyor system. 3,146,878, 9–1–64, Cl. 198—139.

Long, John C. Lamp shield. 3,140,055, 7–7–64, Cl. 240—46.19.

Long, John R.: *See*—
Hudnall, Charles P., Jr., and Long. 3,124,204.
Shelker, Raymond D., and Long. 3,131,897.

Long, Laurence J., and S. R. Williams, to E. I. du Pont de Nemours and Co. Color stabilization of mixtures of trichlorofluoromethane and N,N,N′,N′-tetrakis(hydroxyalkyl) alkylene-diamines. 3,155,625, 11–3–64, Cl. 252—182.

Long, Leonard H.: *See*—
Wallbridge, Malcolm G. H., and Long. 3,118,950.

Long, Louis, Jr., and E. Vis, to United States of America, Army. Process for producing polymers of tri-o-p-tolylsulfonyl-sucrose and polymers of tetra-o-p-tolylsulfonyl-sucrose, and resulting polymers. 3,127,361, 3–31–64, Cl. 260—9.

Long, Louis, Jr., and E. Vis, to United States of America, Army. Adhesive composition and method. 3,158,493, 11–24–64, Cl. 106—162.

Long Mfg. Co.: *See*—
Long, William R. 3,131,775.
Long, William R. 3,151,749.
Rawlins, Philip J. T. 3,158,194.

Long, Marshall: *See*—
Miller, Jack M., Alley, Long, and Rapp. 3,125,136.

Long, Merle S. Trailer for carrying trusses and the like. 3,154,207, 10–27–64, Cl. 214—501.

Long, Olan L., to Westinghouse Electric Corp. Detergent dispensing apparatus for automatic washing machines. 3,144,031, 8–11–64, Cl. 134—93.

Long, Omer M.: *See*—
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Long, Paul J., Jr., to General Motors Corp. Attachment means for air spring on shock absorber. 3,121,562, 2–18–64, Cl. 267—64.

Long, Paul J., Jr., to General Motors Corp. Shock absorber and air spring device. 3,157,396, 11–17–64, Cl. 267—64.

Long, Paul J., Jr., W. F. Schmitz, and B. P. Griffith, to General Motors Corp. Manually adjustable high-low pressure control valve. 3,154,099, 10–27–64, Cl. 137—596.2.

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Long, Robert B., to Esso Research and Engineering Co. Process for methylating olefins. 3,154,593, 10–27–64, Cl. 260—683.

Long, Robert B., and P. J. Lucchesi, to Esso Research and Engineering Co. Demetallization of heavy petroleum oils. 3,154,480, 10–27–64, Cl. 204—154.

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Long, Roger A., to Telecomputing Corp. Ceramic material and method of preparation. 3,131,073, 4–28–64, Cl. 106—39.

Long, Thomas R., to Bell Telephone Laboratories, Inc. Magnetostrictive delay line utilizing torsional waves. 3,127,-578, 3–31–64, Cl. 333—30.

Long, Wendell P., to Hercules Powder Co. Polymerization of α-olefins utilizing a halogen free catalyst containing water. 3,152,105, 10–6–64, Cl. 260—88.2.

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Longenecker, Levi S. Melting furnace back wall construction. 3,139,846, 7–7–64, Cl. 110—99.

Longenecker, Levi S. Furnace roof construction. 3,148,641, 9–15–64, Cl. 110—99.

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Longley, Kermit, to Witco Chemical Co., Inc. Cation-active surface active triloweralkylpolypropylenoxy quaternary ammonium compounds. 3,123,641, 3–3–64, Cl. 260—567.6.

Longley, Kermit, to Witco Chemical Co., Inc. Cation-active surface active quaternary ammonium compounds. 3,141,-905, 7–21–64, Cl. 260—567.6.

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Loomis, Glenn L. Well tool with pressure responsive valve. 3,154,940, 11–3–64, Cl. 73—40.5.

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Lorenz, Albert, to W. C. Heraeus G.m.b.H. Apparatus for continuously degassing molten metals by evacuation. 3,136,834, 6–9–64, Cl. 266—34.

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Schliephacke, Fridtjof F. 3,121,590.
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Louthan, Rector P., to Phillips Petroleum Co. Unsaturated sulfides and sulfoxides and method of preparation. 3,146,-271, 8–25–64, Cl. 260—607.

Louton, James C., Jr., and W. H. West, to General Motors Corp. Vehicle seat adjuster. 3,137,472, 6–16–64, Cl. 248—371.
Louvre S.A.: *See*—
Curti, Paul. 3,159,163.
Loux, Harvey M., to E. I. du Pont de Nemours and Co. N-halo-N-methyl-N'-phenyl ureas. 3,141,038, 7–14–64, Cl. 260—553.
Louzil, Friedrich, to North American Philips Co., Inc. Tape recorder of the self threading type. 3,154,236, 10–27–64, Cl. 226—92.
Louzos, Demetrios V., R. A. Minnery, and T. J. Kurtzweil, to Union Carbide Corp. Electrode assembly for electrochemical linear detector units. 3,123,749, 3–3–64, Cl. 317—231.
Lovasz, John R.: *See*—
Eolkin, Dave, Allard, Anderson, and Lovasz. 3,147,173.
Love, Bernard E., to Joseph Lucas (Industries), Ltd. Apparatus for coating coiled springs. 3,154,433, 10–27–64, Cl. 118—59.
Love, Douglas S., to Express Injector Co., Ltd. Hypodermic injector. 3,131,692, 5–5–64, Cl. 128—173.
Love, Evert, L., and H. E. Emge. Spring testing apparatus. 3,138,020, 6–23–64, Cl. 73—161.
Love, Gordon W. Tiltably-removable automatically-locking sash window. 3,118,190, 1–21–64, Cl. 20—42.
Love, Herman F. Flow controlling device. 3,139,104, 6–30–64, Cl. 137—98.
Love, Jack W. Blood oxygenator. 3,142,296, 7–28–64, Cl. 128—214.
Love, Phil P., to The Glacier Metal Co. Ltd. Bearing pads. 3,161,446, 12–15–64, Cl. 308—160.
Love, Richard R. Roll-back truck bed. 3,159,295, 12–1–64, Cl. 214—517.
Love, Robert G., to Halliburton Co. Pressure sensing apparatus. 3,142,988, 8–4–64, Cl. 73—388.
Love, Robert W., to General Electric Co. Apparatus for scoring and breaking lengths from an elongated vitreous body. 3,160,339, 12–8–64, Cl. 225—96.5.
Love, Temple A., and R. B. Murray, to United States of America, Atomic Energy Commission. Fast neutron spectrometer using spaced semiconductors for measuring total energy of neutrons captured. 3,129,329, 4–14–64, Cl. 250—83.1.
Love, Wesley: *See*—
Jones, Edward M., and Love. 3,124,635.
Love, William D., Jr. Material spreading and broadcasting device. 3,157,402, 11–17–64, Cl. 275—12.
Loveday, Paul E.: *See*—
Gabarro, Rafael, Loveday, Proctor, and Schonberg. 3,132,762.
Lovejoy Flexible Coupling Co.: *See*—
Fermier, Rex M. A. 3,117,461.
Lovejoy, Harry E., to Sperry Rand Corp. Flanged conductive sleeve for connecting strip line with coaxial line. 3,155,930, 11–3–64, Cl. 333—97.
Lovejoy, Stanley T.: *See*—
Jones, Wilbur L. 3,117,318.
Lovelace, Charlie H., to Crane Co. Flanged venturi ends with recessed line drains. 3,124,153, 3–10–64, Cl. 137—312.
Loveland, Malcolm W.: *See*—
Harrer, Theodore M., and Loveland. 3,118,530.
Loveland, Malcolm W., to Atlas Pacific Engineering Co. Machine for orienting peaches. 3,145,826, 8–25–64, Cl. 198—33.
Loveland, Malcolm W., to Atlas Pacific Engineering Co. Fruit pitting machine. 3,159,195, 12–1–64, Cl. 146—27.
Loveland, Malcolm W., to Atlas Pacific Engineering Co. Olive pitter having pit and fruit dislodging jets. 3,162,223, 12–22–64, Cl. 146—27.
Loveland, Malcolm W., to Atlas Pacific Engineering Co. Peach gripper for peach pitting head. 3,162,224, 12–22–64, Cl. 146—28.
Loveland, Malcolm W., to Atlas Pacific Engineering Co. Fruit corer. 3,162,225, 12–22–64, Cl. 146—52.
Loveland, Malcolm W., to Atlas Pacific Engineering Co. Device for orienting pears. 3,162,293, 12–22–64, Cl. 198—33.
Loveland, Roger S., to Minneapolis-Honeywell Regulator Co. Safety pilot. 3,145,763, 8–25–64, Cl. 158—123.
Loveland, Roger S., to Minneapolis-Honeywell Regulator Co. Pilot burner generator. 3,146,823, 9–1–64, Cl. 158—123.
Lovell, Calvin H., to G. D. Searle & Co. 1-phenethylamino-4-hydroxymethylpiperazine and related compounds. 3,126,385, 3–24–64, Cl. 260—268.
Lovell, Donald T., to The Boeing Co. High fatigue life brazewelded joint. 3,141,949, 7–21–64, Cl. 219—85.
Lovell, Ernest E.: *See*—
Mandy, Robert R., and Lovell. 3,116,505.
Lovell, Ford D., and M. Weidenbach. Earth shaping implement. 3,130,794, 4–28–64, Cl. 172—51.
Lovell, John A.: *See*—
Snyder, Carl E., and Lovell. 3,133,905.
Lovell, John E., to International Business Machines Corp. High speed data tape handling mechanism. 3,121,863, 2–18–64, Cl. 340—174.1.
Lovell John E., to International Business Machines Corp. Magnetostrictive thin film delay line. 3,129,412, 4–14–64, Cl. 340—174.
Lovell, Mark E. Electromagnetic pump and energizing means therefor. 3,162,134, 12–22–64, Cl. 103—53.
Lovell, Ralph E., to Radio Corp. of America. Apparatus for recording images. 3,118,971, 1–21–64, Cl. 178—74.
Lovell, Walter C., and A. W. House, to De Bell & Richardson, Inc. Packaging and stirring implement for making beverages. 3,154,418, 10–27–64, Cl. 99—77.1.
Loven, Carl-Fredrik C. Work station type conveyor. 3,125,204, 3–17–64, Cl. 198—19.
Lovendusky, Charles M., to AMP Inc. Wire selecting device. 3,126,127, 3–24–64, Cl. 221—210.
Lovens Kemiske Fabrik ved A. Kongsted: *See*—
Borrevang, Poul. 3,128,291.
Borrevang, Poul. 3,132,163.
Feit, Peter W. 3,155,702.
Godtfredsen, Wagn O. 3,161,573.
Lovercheck, Charles L.: *See*—
Boyer, Charles V. and K. R. 3,148,911.
Lovering, David W.: *See*—
Clancy, John J., Lovering, Brenneman, and Wells. 3,157,533.
Lovers, Guy J., to Metropolitan Welding Fabricators, Inc. Mold for concrete structures. 3,142,882, 8–4–64, Cl. 25—124.
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Wilke, Milton E., and Loverude. 3,129,118.
Lovett, Albert E.: *See*—
Bassford, John M., Biven, Lovett, and F. R. and W. E. Smith. 3,148,374.
Lovett, Gordon H., and E. M. Jones, to Monsanto Chemical Co. Dehydrogenation of alkylated aromatic hydrocarbons. 3,118,006, 1–14–64, Cl. 260—669.
Lovett, Richard N.: *See*—
Goodrich, Sidney G., Lovett, Moore, and Smith. 3,130,685.
Hayden, Kenneth F., and Lovett. 3,125,506.
Lovett, William L. Jr. Ducted fan aircraft and engine. 3,138,350, 6–23–64, Cl. 244—23.
Lovette, Henry H. Combination mattress and bed bottom. 3,154,797, 11–3–64, Cl. 5—320.
Lovette, Jeremiah R. Automatic Mullen tester or burst tester. 3,160,002, 12–8–64, Cl. 73—102.
Lovgren, Anders E., to Robert Krups. Beater. 3,154,297, 10–27–64, Cl. 259—134.
Lovisek, Louis J., to General American Transportation Corp. Methods of making combination recess-forming and head-forming punches. 3,124,975, 3–17–64, Cl. 76—101.
Lovisek, Louis J., to General American Transportation Corp. Screw fastener having preassembled clamping and sealing washers. 3,153,971, 10–27–64, Cl. 85—1.
Lovitt, Billy J., L. Jachimowicz, and A. Nosty, said Lovitt assor. to General Telephone & Electronics, said Jachimowicz and said Nosty, assors., to General Cable Corp. Telephone cable system. 3,158,680, 11–24–64, Cl. 174—88.
Low, Frank D., to General Electric Co. Control circuit for clothes washing machine. 3,140,595, 7–14–64, Cl. 68—12.
Löw, Hermann. Clamping device. 3,119,162, 1–28–64, Cl. 24—253.
Low, Paul R., and R. Rice, to International Business Machines Corp. Exclusive-or photoresponsive logical circuits. 3,157,792, 11–17–64, Cl. 250—210.
Low, Robert, to Tektronix, Inc. Coating method and apparatus for notches and other surface discontinuities. 3,121,020, 2–11–64, Cl. 117—95.
Lowdermilk, Ford R., to Pennsalt Chemicals Corp. Hydrogen chloride recovery and purification from gases containing hydrogen fluoride. 3,140,916, 7–14–64, Cl. 23—154.
Lowe, Bernard: *See*—
Loewe, Siegmund. 3,155,334.
Lowe, Charles E. Ice making refrigeration apparatus and the like. 3,146,610, 9–1–64, Cl. 62—347.
Lowe, Charles E., to Hartford Gun Choke Co., Inc. Adjustable shotgun choke device. 3,161,979, 12–22–64, Cl. 42—79.
Lowe Chemical Co.: *See*—
Hard, Charles G. 3,141,853.
Lowe, Edison, E. L. Durkee, and W. E. Hamilton, to United States of America, Agriculture. Apparatus for attenuating coatings. 3,133,831, 5–19–64, Cl. 118—20.
Lowe, Edison, and E. L. Durkee, to United States of America, Agriculture. Pea piercing machine. 3,141,484, 7–21–64, Cl. 146—56.
Lowe, Edward I.: *See*—
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Lowe, Edwin C., to Norton Co. Hexagonal silicon carbide crystals produced from an elemental silicon vapor deposited onto a carbon plate. 3,147,159, 9–1–64, Cl. 148—174.
Lowe, Jack M.: *See*—
Barber, Ronald J., and Lowe. 3,143,450.
Lowe, Joe, Corp.: *See*—
Roth, Ernest J. 3,142,398.
Roth, Ernest J. 3,154,187.
Lowe, Leonard F., to The Patterson-Kelley Co., Inc. Temperature controlling fluid storage system. 3,133,590, 5–19–64, Cl. 165—39.
Lowe Paper Co.: *See*—
Anastasio, Charles O. 3,158,530.
Lowe, Richard G.: *See*—
Fornell, Bertil S., and Lowe. 3,144,248.
Lowe, Ronald C., and T. L. Hughes, to Joseph Lucas (Industries) Ltd. Semi-conductor devices. 3,143,444, 8–4–64, Cl. 148—188.
Lowe, Russell T., to Wright, Barry, Corp. Self-damped composite structures. 3,142,610, 7–28–64, Cl. 161—54.
Lowe, Warren: *See*—
Stewart, William T., Stuart, and Lowe. 3,160,612.
Stuart, Frank A., and Lowe. 3,152,080.

Lowe, Wesley G., G. N. Shayler, and G. D. Brady, to Eastman Kodak Co. Antifoggants for gold sensitized emulsions in the presence of reduction sensitizers. 3,128,184, 4–7–64, Cl. 96—108.

Lowe, Wesley G., and J. A. Schwan, to Eastman Kodak Co. Photographic developers containing polyalkylene glycols. 3,158,483, 11–24–64, Cl. 96—66

Lowell, Arthur I., and O. L. Magell, to Wallace & Tierman Inc. Polymerization of polyvinyl acetate with an initiator of t-butyl peroxypivalate and subsequent hydrolysis to produce polyvinyl alcohol. 3,121,705, 2–18–64, Cl. 260—91.3.

Lowell, Herbert W., to United States Steel Corp. Apparatus for handling strip in a strip processing line. 3,154,340, 10–27–64, Cl. 294—104.

Lowell, John O., to Ripley Industries, Inc. Plural die elements surrounded by single stripper pad means with work gauge overlying stripper. 3,129,623, 4–21–64, Cl. 83—133.

Lowell, John O., and H. P. Robinson, to Ripley Industries, Inc. Marker die and gauge assembly. 3,138,099, 6–23–64, Cl. 101—401.3.

Lowell Mfg. Co.: *See*—
Junk, Heinrich J. 3,159,234.

Lowell, Norman, to Sperry Rand Corp. Landing system for aircraft. 3,126,175, 3–24–64, Cl. 244—77.

Lowell, Ross. Light fixture. 3,140,053, 7–7–64, Cl. 240—1.3.

Lowell, Rudolph L.: *See*—
Kucera, Joseph B. 3,150,885.

Lowen, Stanley. Container closure. 3,143,235, 8–4–64, Cl. 215—40.

Lowenstein, Jack G., to FMC Corp. Preparation of diisocyanates. 3,140,305, 7–7–64, Cl. 260—453.

Lowenstein, Mark G.: *See*—
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Lowenstein, Mark G., to Barnes Engineering Co. Two color radiometer for distinguishing radiations from sources at different temperatures. 3,147,381, 9–1–64, Cl. 250—83.3.

Lowenthal, Hans, to Colibri Lighters Ltd. Cigarette lighters. 3,132,498, 5–12–64, Cl. 67—7.1.

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Free, Alfred H., and Lower. 3,145,086.

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Lowery, Peter A., H. E. Richards, and B. T. Pook, to Chemring Ltd. Collapsible octahedral corner reflector. 3,152,329, 10–6–64, Cl. 343—18.

Lowes, Fred J., to The Dow Chemical Co. Method of making essentially colorless, partially hydrolyzed, dye receptive acrylonitrile polymers. 3,124,413, 3–10–64, Cl. 8—115.5.

Lowes, Fred J., to The Dow Chemical Co. Mild alkaline oxidation treatment of acrylonitrile polymer fibers or films, to improve flexibility and dyeability. 3,127,232, 3–31–64, Cl. 8—111.

Lowes, Fred J., Jr., to The Dow Chemical Co. Process of producing non-fibrillating acrylonitrile polymer filaments. 3,129,273, 4–14–64, Cl. 264—182.

Lowes, Fred J., Jr., to The Dow Chemical Co. Process for preparing acrylonitrile polymer fibers and resulting products. 3,145,186, 8–18–64, Cl. 260—17.

Lowes, Leonard: *See*—
Tanner, Maurice C., and Lowes. 3,134,650.

Lowey, Roy E.: *See*—
Allenbaugh, George G., Bailey, Lowey, and Stephenson. 3,132,377.

Lowman, Jefferson S., III. Variable lift aircraft wing pivotally mounted for movement about a skewed longitudinal axis. 3,153,523. 10–20–64, Cl. 244—46.

Lowman, Walker B., to Industrial Nucleonics Corp. Measuring and controlling system. 3,147,370, 9–1–64, Cl. 235—151.

Lown, George: *See*—
Lown, Walter H., and Brown. 3,155,045.

Lown, Walter H., deceased; (G. Lown, executor), and D. D. Brown. Wear resistant pumps. 3,155,045, 11–3–64, Cl. 103—103.

Lowndes Engineering Co., Inc.: *See*—
Waldron, David W., Jr. 3,141,615.

Lowney, William J., Jr., to Grip-Flex Corp. Shoulder braid. 3,153,244, 10–20–64, Cl. 2—244.

Lowrey, Robert D.: *See*—
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Lowrie, Harman S.: *See*—
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Lowrie, Harman S., to G. D. Searle & Co. 4-(hydroxyalkyl cyclic amino)-propyl-2-phenyl-3,4-dihydro-2H-1,4-benzothiazines. 3,124,577, 3–10–64, Cl. 260—243.

Lowrie, Harman S., to G. D. Searle & Co. 4-aminoalkanoyl-2-phenyl-3,4-dihydro-2H 1,4-benzothiazines. 3,143,545, 8–4–64, Cl. 260—243.

Lowrie, Harman S., to G. D. Searle & Co. 2-hydrazinoquinoline hydrazone with 1-methyl-4-piperidone and related compounds. 3,152,133, 10–6–64, Cl. 260—288.

Lowry, George W., to Overstrom & Sons, Inc. Snubber for vibrating screens. 3,123,552, 3–3–64, Cl. 209—326.

Lowry, Harold D., and G. E. Cummins, to Eastman Kodak Co. Viscous solution processing device adapted for continuous operation. 3,157,103, 11–17–64, Cl. 95—89.

Lowry, Herman D., to Lowry Hydraulics Co. Down well pump. 3,123,008, 3–3–64, Cl. 103—46.

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Lowry, Herman D. 3,123,008.

Lowry, John C., to National Distillers and Chemical Corp. Dispensing holders for stacks of bags. 3,145,839, 8–25–64, Cl. 206—57.

Lowry, John R.: *See*—
Baldwin, Robert R., Lowry, and Ohan. 3,149,977.

Lowry, Robert D.: *See*—
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Kirkpatrick, Wylie C., Harrison, and Lowry. 3,127,760.

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Lowry, Terrell N., to Bell Telephone Laboratories, Inc. Magnetically controlled switching devices. 3,141,079, 7–14–64, Cl. 200—87.

Lowry, Terrell N., to Bell Telephone Laboratories, Inc. Supervisory circuit for telephone subscriber's line. 3,157,746, 11–17–64, Cl. 179—18.

Lowry, Wayne H.: *See*—
Poynor, Russell R., Lowry, and Winslow. 3,140,161.

Lowry, William K. Citrus fruit peeling tool. 3,149,417, 9–22–64, Cl. 30—24.

Lowther, John R. Swimming pool lighting setup. 3,116,884, 1–7–64, Cl. 240—26.

Lox, Walter E., and E. S. Beck, to Enterprise Paint Mfg. Co. Modified high molecular weight polyvinyl chloride resin coatings for metal, composition and method of coating. 3,137,666, 6–16–64, Cl. 260—19.

Loxham, John, to National Research Development Corp. Drives for gear grinding machines. 3,152,422, 10–13–64, Cl. 51—52.

Loy, Fred W., and W. J. Baker, to Gardner-Denver Co. Wire wrapping device. 3,117,736, 1–14–64, Cl. 242—7.

Loyd, Calvin D.: *See*—
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Loyd, Robert J., to Phillips Petroleum Co. Thermal chromatography temperature gradient. 3,146,616, 9–1–64, Cl. 73—23.1.

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Loyd, Samuel A., Jr., to Acme Visible Records, Inc. Rotary record equipment. 3,120,824, 2–11–64, Cl. 108—20.

Loyd, Samuel A., Jr., to Acme Visible Records, Inc. Book holder. 3,123,934, 3–10–64, Cl. 45—81.

Lu, Kenneth C. Combination loose leaf binder and book carrier. 3,142,495, 7–28–64, Cl. 281—29.

Lubben, George F., J. J. Schauble, and G. A. McCoubrey, to Kaman Aircraft Corp. Helicopter rotor and method of making a blade member thereof. 3,144,907, 8–18–64, Cl. 170—160.25.

Lüber, Paul, to Sulzer Freres, S.A. Bobbin body having thread end attaching means. 3,138,345, 6–23–64, Cl. 242—125.1.

Luberoff, Benjamin J.: *See*—
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Luberoff, Benjamin J., and W. D. Gersumky, to American Cyanamid Co. Novel initiators for N-vinyl amide polymerization. 3,162,625, 12–22–64, Cl. 260—88.3.

Lubkin, Samuel, to Curtiss-Wright Corp. Method of manufacture of multiple magnetic head units. 3,120,696, 2–11–64, Cl. 29—155.5.

Luborsky, Fred E., and C. R. Morelock, to General Electric Co. Metal whiskers having an essentially constant diameter of not more than 1000 angstroms. 3,132,022, 5–5–64, Cl. 75—.5.

Lubow, Myron. Rotary bending machine. 3,125,150, 3–17–64, Cl. 153—19.

Lubowitz, Hyman R.: *See*—
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Butler, Thomas A. 3,151,075.
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Hopkins, Thomas R. 3,136,801.
Kallenbach, Rudolf. 3,161,549.
Le Suer, William M. 3,158,640.
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Norman, George R., and Le Suer. 3,147,232.
Palm, Bert E. 3,144,360.
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Towle, Alfred, and Anderson. 3,120,429.

Lubus, Joseph J.: *See*—
Block, M. Sabel, Lubus, Sidbury, and Jensen. 3,141,462.

Luby, William J., to Dale Marking Equipment Co., Inc. Web printing and cutting apparatus delivering a succession of identical sheets. 3,160,095, 12–8–64, Cl. 101—227.

Lucanera, Constantino and E. J. Annechiarico, to International Telephone and Telegraph Corp. Variable glide slope system. 3,136,997, 6–9–64, Cl. 343—108.

Lucas, Alva L. Swingable support for an excavating unit. 3,121,503, 2–18–64, Cl. 214—138.

Lucas, Christopher. Dry photographic processing formulation. 3,158,482, 11–24–64, Cl. 96—66.

Lucas, Don D. Portable barbecue. 3,152,536, 10–13–64, Cl. 99—397.

Lucas, Eugene H., deceased, by M. A. Lucas, executrix, and R. U. Byerrum. Mushroom oncostatic principle. 3,118,811, 1–21–64, Cl. 167—65.

Lucas, James E.: *See*—
Bancroft, Thomas, Walker, Lucas, and Ducker. 3,148,-590.
Lucas, James W. Multi-purpose projection device. 3,124,035, 3–10–64, Cl. 88—24.
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Oppenheimer, Paul, and Martin. 3,123,230.
Roberts, Maldwyn H., Clamp, and Jukes. 3,140,423.
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Lucas, Joseph G.: *See*—
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Lucas, Joseph H. M., H. J. van Dal, and W. F. Smits, to North American Philips Co., Inc. Polyphase current switching device for an X-ray tube supply circuit. 3,119,932, 1–28–64, Cl. 250—102.
Lucas, Lucien, ½ to Rene G. Le Vaux. Swimming toy. 3,153,879, 10–27–64, Cl. 46—92.
Lucas, Malcolm B., to The Procter & Gamble Co. Method of correcting web misalignment. 3,160,409, 12–8–64, Cl. 270—41.
Lucas, Margaret A.: *See*—
Lucas, Eugene H., and Byerrum. 3,118,811.
Lucas, Paul G., and S. Rigby, to Adage, Inc. Control circuits for electronic switches. 3,135,874, 6–2–64, Cl. 307—88.5.
Lucas, Raymond M., to Gregory Industries, Inc. Hanger. 3,120,938, 2–11–64, Cl. 248—68.
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Robison, Michael M., and Lucas. 3,126,387.
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Lucas, Robert A., to Ciba Corp. Alkyl-18-O-trialkoxyacetyl reserpates and derivatives. 3,138,601, 6–23–64, Cl. 260—287.
Lucas, Robert A., H. B. MacPhillamy, and M. M. Robison, to Ciba Corp. Isomerization of 3-epi-yohimbanes. 3,118,893, 1–21–64, Cl. 260—287.
Lucas, Robert A., H. B. MacPhillemy, and M. M. Robison, to Ciba Corp. Oxidation of an allo-yohimbine compound to a 3-dehydro yohimbene compound. 3,120,532, 2–4–64, Cl. 260—287.
Lucas, William R., and K. F. Hager, to United States of America, Army. Method of protecting ferrous metal surfaces from rerusting. 3,135,632, 6–2–64, Cl. 134—28.
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Bartok, William, and Lucchesi. 3,125,498.
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Luce, Rudolf, to International Standard Electric Corp. Timing circuit consisting of a relay and of a parallel-connected capacitor. 3,117,254, 1–7–64, Cl. 317—141.
Luce, Vincent De S., 21.75% to C. C. Anderson, Sr.; 9.375% to G. Jonovich; 9.375% to J. Wilnau; 7.50% to A. Belluzzi; 10% to D. J. Baumann; 11% to M. L. Anderson, and 11% to C. C. Anderson, Jr. Coffee substitute and the method of making it and other food products. 3,158,485, 11–24–64, Cl. 99—75.
Luce, Walter A., G. W. Jackson, E. Ryder, and M. G. Fontana, to The Duriron Co., Inc. High silicon cast iron. 3,129,095, 4–14–64, Cl. 75—123.
Luchford, Laurence R., to Trianco Ltd. Loading aids. 3,120,-316, 2–4–64, Cl. 214—394.
Luchland Co., The: *See*—
Riva, William. 3,140,562.
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Lundquist, Richard C., to Goodman Mfg. Co. Ripper type continuous mining machine having a sectional cutter drum. 3,157,438, 11–17–64, Cl. 299—73.

Lundquist, Roy W. Shrubbery trimmer. 3,143,798, 8–11–64, Cl. 30—166.

Lundquist, Wilton G. Expansible fluid engine. 3,147,669, 9–8–64, Cl. 91—184.

Lundsager, Christian B.: *See*—
Anderson, Samuel P., and Lundsager. 3,163,691.

Lundvall, John S., to Unarco Industries, Inc. Railway car side filler. 3,163,130, 12–29–64, Cl. 105—369.

Lundy Electronics and Systems, Inc.: *See*—
Bennett, Floyd M. 3,158,874.
Hill, Thomas G. 3,144,222.

Luneburg, Lennart O. L. E., and R. F. A. Jansson. Synthetic resinous compositions comprising a chlorinated diphenyl and solutions of lacquers and paints made thereof. 3,135,709, 6–2–64, Cl. 260—21.

Lunk, Hans E., to Shell Oil Co. Process for preparing high impact material by polymerizing styrene in the presence of diene rubber and polystyrene. 3,129,199, 4–14–64, Cl. 260—45.5.

Lunkenheimer Co., The: *See*—
Rionelle, Earl F., and Booss. 3,146,988.

Lunn, Joseph P. Dental lounge unit. 3,143,803, 8–11–64, Cl. 32—22.

Lunney, Raymond E., to Bell Telephone Laboratories, Inc. Electrical circuits for communication networks. 3,144,636, 8–11–64, Cl. 340—147.

Lunney, Thomas W., to E. I. du Pont de Nemours and Co. Color stable acrylonitrile polymers. 3,123,588, 3–3–64, Cl. 260—79.3.

Lunsford-Alden Co.: *See*—
Lunsford, William. 3,117,880.

Lunsford, Thomas J.: *See*—
Mason, Hollis N., and Lunsford. 3,126,933.

Lunsford, Walter P., 49% to G. Roy. Aerator. 3,148,737, 9–15–64, Cl. 172—21.

Lunsford, William, to Lunsford-Alden Co. Liquidwood-expanding composition. 3,117,880, 1–14–64, Cl. 106—12.

Lunzman, Wayne W.: *See*—
Suchodolski, John E., Fehlberg, and Lunzman. 3,118,585.

Lupfer, Dale E., to Phillips Petroleum Co. Stream blending method and apparatus. 3,135,277, 6–2–64, Cl. 137—3.

Lupia, Richard: *See*—
Lehr, Philip N., and Lupia. 3,159,717.

Lupinacci, Nicholas. Ladder-attaching supports for buckets. 3,156,443, 11–10–64, Cl. 248—211.

Lupo, Fritz J., to Feedmatic-Detroit, Inc. Pneumatic nut elevator. 3,163,324, 12–29–64, Cl. 221—68.

Lupoli, Paul H. Food slicing machine. 3,163,192, 12–29–64, Cl. 146—5.

Lupovici, David. Hot liquid dispenser. 3,143,636, 8–4–64, Cl. 219—314.

Lupovici, David. Vending machine. 3,162,287, 12–22–64, Cl. 194—85.

Lupton Bros. Ltd.: *See*—
Bulcock, Colin L. L. 3,127,914.

Lurex Mfg. Co.: *See*—
Luertzing, Paul R. 3,140,097.
Nelson, La Von. 3,142,474.

Lurey, E. R., Co.: *See*—
Lurey, Emanuel R. 3,161,158.

Lurey, Emanuel R., to E. R. Lurey Co. Display rack with vertically adjustable shelves. 3,161,158, 12–15–64, Cl. 108—2.

Lurie, Robert M.: *See*—
Berger, Carl, and Lurie. 3,152,014.

Lurie, William B.: *See*—
Stavis, Gus, Gamertsfelder, and Lurie. 3,150,323.

Lusby, Oscar W.: *See*—
Betz, Paul L., and Lusby. 3,127,291.

Luscher, Fritz: *See*—
Erni, Enrico, and Luscher. 3,127,462.

Luscher, Jakob. System having integrated-circuit semi-conductor device therein. 3,137,796, 6–16–64, Cl. 307—88.5.

Luscombe, Arthur. Feed mixer apparatus. 3,133,727, 5–19–64, Cl. 259—8.

Lusebrink, Mary W. Supporting roller for sheet material. 3,140,059, 7–7–64, Cl. 242—55.2.

Lush, Gerald B., and E. L. Leafe, to Boots Pure Drug Co. Ltd. Herbicidal composition and method. 3,151,970, 10–6–64, Cl. 71—2.6.

Lush, Morley J. High frequency thermocouple voltmeter. 3,128,428, 4–7–64, Cl. 324—95.

Lusk, William H., to Clayton & Lambert Mfg. Co. Top leveler for grain storage bins and the like. 3,129,828, 4–21–64, Cl. 214—17.

Luskin, Bernard, to Litton Systems, Inc. Precisional navigational orientation. 3,133,439, 5–19–64, Cl. 73—178.

Luskin, Leo S. *See*—
Gardpon, John L., and Luskin. 3,122,411.

Luskin, Leo S., and J. H. Short; said Luskin assor. to Rohm & Haas Co., and said Short assor. to Abbott Laboratories. T-octylguanidines as antihypertensive agents. 3,140,231, 7–7–64, Cl. 167—65.

Lüssem, Heribert: *See*—
Frenk, Helmuth, Lüssem, and Mees. 3,140,637.

Lusser, Robert. Safety ski bindings. 3,129,951, 4–21–64, Cl. 280—11.35.

Lussier, Leon E. and O. E., and J. B. Swett, to Rexall Drug and Chemical Co. Shampoo brush. 3,146,484, 9–1–64, Cl. 15—542.

Lussier, Oscar E.: *See*—
Lussier, Leon E. and O. E., and Swett. 3,146,484.

Lustig, Howard E.: *See*—
Seliger, Victor H., Lustig, and Heym. 3,120,124.

Lustig, Howard E., A. L. Rossoff, P. D. Frelich, and H. K. Farr, to General Instrument Corp. Radiation mapping system. 3,144,631, 8–11–64, Cl. 340—3.

Lustig, Paul, to Purofied Dow Products Corp. Pillow. 3,148,389, 9–15–64, Cl. 5—337.

Luten, Daniel B., Jr., and R. E. Meeker, to Shell Oil Co. Hydrogen peroxide purification. 3,156,531, 11–10–64, Cl. 23—207.

Lutes, Olin S., to Minneapolis-Honeywell Regulator Co. Superconductive temperature control. 3,119,236, 1–28–64, Cl. 62—3.

Lutgerhorst, Albertus G., to Onderzoekingsinstituut Research, N.V. Dyeing polypropylene. 3,157,457, 11–17–64, Cl. 8—4.

Luth, Harold J. Transducer. 3,160,716, 12–8–64, Cl. 179—115.5.

Luther, Arch C., Jr., R. N. Hurst, and J. R. West, to Radio Corp. of America. Servo system. 3,141,065, 7–14–64, Cl. 178—6.6.

Luther, Glenn C. Machine for making and applying reinforcing patches to ring book sheets. 3,122,067, 2–25–64, Cl. 93—1.

Luther, Karl, G. C. J. Parent, and W. W. Bulgrin, to The Firestone Tire & Rubber Co. Sheet feeding, punching and disk stacking equipment for the manufacture of wheel disks or the like. 3,143,015, 8–4–64, Cl. 83—91.

Luther, Martin W., to Sun Oil Co. Liquid stream analyzing apparatus. 3,120,119, 2–4–64, Cl. 73—17.

Luther, Martin W., to Sun Oil Co. Apparatus for measuring distillation point of a liquid stream. 3,133,436, 5–19–64, Cl. 73—17.

Luther, Roger R.: *See*—
Stranberg, Don F., and Luther. 3,142,503.

Luther, Roger R., to Anchor Coupling Co. Inc. Longitudinally split hose clamp coupling having extrusion reducing ribs. 3,142,502, 7–28–64, Cl. 285—242.

Luther, William P., to John Oster Mfg. Co. Electric motor for hand held appliance. 3,119,942, 1–28–64, Cl. 310—50.

Luthi, Oscar, to Improved Machinery, Inc. Filters. 3,150,083, 9–22–64, Cl. 210—404.

Lütke, Klaus, to VEB Leuna-Werke Walter Albricht. Densimeters. 3,126,745, 3–31–64, Cl. 73—453.

Lutsch, Gene C.: *See*—
Fath, Douglas W., Kleewein, Kraschinsky, Lutsch, and Weiss. 3,155,277.

Lutsky, Arthur A., to The Wilcolator Co. Thermal sensing element. 3,163,044, 12–29–64, Cl. 73—368.

Luttinger, Lionel B., to American Cyanamid Co. Catalyst system for linear and cyclic polymerization of mono substituted acetylenes. 3,131,155, 4–28–64, Cl. 252—428.

Luttinger, Lionel B., to American Cyanamid Co. Polymerization of conjugated diolefins using nickel complexes and metal hydrides as catalyst. 3,148,224, 9–8–64, Cl. 260—666.

Lutton, Edwin S.: *See*—
Baur, Fredric J., and Lutton. 3,158,490.

Luttrell, Milton N., Jr. Post anchor. 3,135,364, 6–2–64, Cl. 189—29.

Lüttringhaus, Arthur, I. Hagedorn, H. and N. Engelhard, to E. Merck. Preparation of bis-quaternary pyridinium salts. 3,137,702, 6–16–64, Cl. 260—296.

Lutts, William M., Sr., and L. K. Taliaferro, Sr., to Louisville and Nashville Railroad Co. Longitudinal sectional door operating shaft. 3,161,146, 12–15–64, Cl. 105—240.

Lutwack, Ralph, to Shell Oil Co. Organic functional fluids and polymeric amine salt additives therefor. 3,159,578, 12–1–64, Cl. 252—32.7.

Lutwack, Wilton J. Portfolio made of paper. 3,129,872, 4–21–64, Cl. 229—72.

Lutz, Albert W., R. G. Child, and B. L. Walworth, to American Cyanamid Co. Controlling undesirable plant growth. 3,155,488, 11–3–64, Cl. 71—2.5.

Lutz, Eugene F., to Marathon Oil Co. Preparation of 1,2,4,5-tetraalkyl-benzenes from pseudocumene and propylene. 3,132,189, 5–5–64, Cl. 260—671.

Lutz, Friedrich, P. Stucki, and H. Merki, to Ruti Machinery Works Ltd., formerly Caspar Honegger. Mechanism for feeding the weft-bobbins to the automatic bobbin-change of a mechanical loom. 3,122,268, 2–25–64, Cl. 221—13.

Lutz, Herbert S., to International Process & Product Development Corp. Tooth cleaning device. 3,124,824, 3–17–64, Cl. 15—227.

Lutz, Kenneth V. Rock crusher jaw. 3,156,421, 11–10–64, Cl. 241—217.

Lutz, William A., to Dorr-Oliver Inc. Cooling and defoaming phosphoric acid slurries. 3,148,948, 9–15–64, Cl. 23—165.

Lutz, Wilson B.: *See*—
Meltzer, Robert I., and Lutz. 3,120,540.
Meltzer, Robert I., and Lutz. 3,147,268.

Lutz, Wilson B., and R. I. Meltzer, to Warner-Lambert Pharmaceutical Co. Aminopyrazines. 3,155,663, 11–3–64, Cl. 260—250.

Lutze, Walter, and O. Roder, to Daimler-Benz Aktiengesellschaft. Hydrodynamic coupling. 3,136,129, 6–9–64, Cl. 60—54.

Lutzen, William C. Flow control means for annular passages. 3,125,872, 3–24–64, Cl. 68—144.

Lutzweit, Walter F., and O. W. Niemi, to Xerox Corp. Automatic powder applicator apparatus. 3,129,113, 4–14–64, Cl. 118—6.

Luvisi, John P., to Universal Oil Products Co. Preparation of N-(haloalkyl) amines. 3,121,744, 2–18–64, Cl. 260—577.

Luvisi, John P., to Universal Oil Products Co. Hydrogenation of nitrohaloaromatic compounds. 3,150,185, 9–22–64, Cl. 260—576.

Luvisi, John P., to Universal Oil Products Co. Polyoxyalkylene glycol monoethers of halocycloalkenic derivatives of salicylaldehydes. 3,154,587, 10–27–64, Cl. 260—600.

Luvisi, John P., and L. Schmerling, to Universal Oil Products Co. Manufacture of nitrodiarylamines. 3,121,736, 2–18–64, Cl. 260—576.

Luvisi, John P., and L. Schmerling, to Universal Oil Products Co. Halobenzyl substituted polyhalobutadienes. 3,121,753, 2–18–64, Cl. 260—651.

Lux, John H.: *See*—
Anderson, Thomas F., and Lux. 3,158,383.

Luxembourgeoise de Brevets et de Participations: *See*—
Paulsen, Jean F. 3,154,273.

Luzon, Thomas B.: *See*—
Freericks, Lambert, Kukasch, and Luzon. 3,156,772.
Freericks, Lambert, Kukasch, and Luzon. 3,156,773.

Lyall, Charles E.: *See*—
Kozel, James A., and Lyall. 3,122,010.

Lyall, Charles E., to Culligan. Inc. Water conditioning tank and liner. 3,159,306, 12–1–64, Cl. 220—63.

Lyall, Ralph G. Axle load distributing device for motor cranes and like mobile equipment. Re. 25,617, 7–14–64, Cl. 280—104.5.

Lybeck, Alvin H., to American Enka Corp. Insulating composition containing polyvinyl chloride, triallyl cyanurate, a filler, and a flame retardant. 3,141,850, 7–21–64, Cl. 252—63.5.

Lychyk, George S., and A. Taliste, to Automatic Electric Laboratories, Inc. Mounting lugs and bobbin for dry reed relays. 3,128,356, 4–7–64, Cl. 200—87.

Lyday, Richard W., and C. L. Moorman, to General Motors Corp. Fastener assembly apparatus. 3,139,674, 7–7–64, Cl. 29—208.

Lyde, Derek M.: *See*—
Wells, Frederick H., and Lyde. 3,157,586.
Wells, Frederick H., and Lyde. 3,161,575.

Lyden, Frank J. Liquid level control having an annular permanent magnet for actuating a mercury switch. 3,163,-731, 12–29–64, Cl. 200—84.
Lydle, John E. Machine for changing tires. 3,138,182, 6–23–64, Cl. 144—288.
Lyem, Arthur: *See*—
Tsou, Kwan C., Lyem, and Halpern. 3,154,448.
Lyf-Alum, Inc.: *See*—
Grieling, David J. 3,120,883.
Rauen, Math W., Teed, and Birch. 3,147,791.
Lyle, Aaron K., to Emhart Mfg. Co. Glass furnace batch charging apparatus and control means therefor. 3,127,-033, 3–31–64, Cl. 214—18.
Lyle, Charles A., to Combustion Engineering, Inc. Rotary regenerative heat exchanger. 3,126,946, 3–31–64, Cl. 165—7.
Lyle, Frederick J., to Spring Packing Corp. Stop construction. 3,151,916, 10–6–64, Cl. 308—38.
Lyle, Harold M. Ornithopter type aircraft. 3,161,376, 12–15–64, Cl. 244—20.
Lyle, Lewis E. W. Kicking game apparatus comprising a platform and numbered cubes to be kicked therefrom. 3,118,-675, 1–21–64, Cl. 273—108.
Lyle, Richard E.: *See*—
De Vries, Louis, and Lyle. 3,157,624.
Lyman, Brooks. Sheet handling. 3,136,539, 6–9–64, Cl. 271—26.
Lyman, Brooks, and N. C. Coleman, to Pitney-Bowes, Inc. Printing device. 3,125,951, 3–24–64, Cl. 101—250.
Lyman, Frank, Jr., and W. H. West, to Cambridge Thermionic Corp. Patch panel press. 3,129,044, 4–14–64, Cl. 339—18.
Lyman, Harold T., F. G. Mason, and J. C. Jaqua, to Aladdin Industries, Inc. Ultra high frequency tuner having rectilinearly sliding plates providing variable inductance and capacitance. 3,156,884, 11–10–64, Cl. 334—68.
Lyman, John B., and W. E. Lind, to Whirlpool Corp. Liquid spray apparatus. 3,144,034, 8–11–64, Cl. 134—176.
Lyman, Roger T., to Kooltronic Fan Co. Cooling duct for cabinets. 3,120,166, 2–4–64, Cl. 98—39.
Lympany, Byron B.: *See*—
Beaver, Wallace W., and Lympany. 3,123,438.
Lyna, Donald W., D. J. O'Hare, and G. G. Walker, Jr., to United Aircraft Corp. Blade alignment gage. 3,161,961, 12–22–64, Cl. 33—174.
Lynam, John E., to Automatic Braiding Co. (Nottingham) Ltd. Apparatus for the production of composite elastic banding. 3,118,803, 1–21–64, Cl. 156—438.
Lynam, Joseph P. Sea water conversion apparatus. 3,152,053, 10–6–64, Cl. 202—173.
Lynch Corp.: *See*—
Brueckner, Alexander W. 3,143,882.
Johnson, Bertil, and McVicker. 3,137,981.
Krane, Robert, and McVicker. 3,153,937.
McVicker, Robert F., Johnson, Hansen, and Travis. 3,150,474.
Messick, Walker A. 3,118,262.
Lynch, David J. Apparatus for preparing printed matter. 3,118,680, 1–21–64, Cl. 276—37.
Lynch, Eugene D.: *See*—
Handwerk, Joseph H., and Lynch. 3,122,509.
Lynch, Francis J., to Sun Oil Co. Bonding clamp for pipes. 3,139,317, 6–30–64, Cl. 339—251.
Lynch, Geraldine B.: *See*—
Turula, Eugene, and Lynch. 3,135,818.
Lynch, Gregory R., and J. F. Tuscher, to The Carter's Ink Co. Pattern transfer printing elements. 3,122,093, 2–25–64, Cl. 101—149.4.
Lynch, John D.: *See*—
McKellar, Robert R., Lynch, Marsh, Couture, and Haynes. 3,163,503.
Lynch, John M.: *See*—
Wender, Neil F., and Lynch. 3,135,405.
Lynch, John V. Mail strap-out machine. 3,149,559, 9–22–64, Cl. 100—34.
Lynch, Robert W., to McCormick Selph Associates, Inc. Seal for electrical terminal assemblies. 3,134,230, 5–26–64, Cl. 60—39.82.
Lynch, Thomas J., to United Aircraft Corp. Pulse duration modulator. 3,147,449, 9–1–64, Cl. 332—12.
Lynch, Thomas J., to United Aircraft Corp. Shift-register stage employing pair of cascade-connected transistors to discharge storage capacitor to thereby set flip-flop. 3,154,-698, 10–27–64, Cl. 307—88.5.
Lynch, Vincent E., to Jolyn Electronics Mfg. Corp. Cutting device. 3,145,606, 8–25–64, Cl. 83—577.
Lynch, Vincent E., and L. Sidrer, to Instrument Systems Corp. Detection system. 3,124,289, 3–10–64, Cl. 226—1.
Lynch, William R., to Republic Industrial Corp. Sealing strip with foamed-in-place filler. 3,159,886, 12–8–64, Cl. 20—69.
Lynds, Lahmer, and D. R. Stern, to American Potash & Chemical Corp. Preparation of organoboron halides. 3,146,261, 8–25–64, Cl. 260—543.
Lynes, Inc.: *See*
Malone, Billy C. 3,158,200.
Malone, Billy C. 3,160,211.
Lynn, Bernard S. Blast fence. 3,126,176, 3–24–64, Cl. 244—114.
Lynn, Edwin W., to Celluplastics, Inc. Hanging cap and container combination. 3,119,541, 1–28–64, Cl. 229—5.5.
Lynn, John W.: *See*—
Brotherton, Thomas K., and Lynn. 3,162,664.
Brotherton, Thomas K., and Lynn. 3,162,673.
Harris, Thomas M., and Lynn. 3,131,166.
Lynn, John W., and R. L. Roberts, to Union Carbide Corp. Preparation of 1,2,4-butanetricarboxylic acid from 3-cyclohexene-1-carboxaldehyde. 3,118,935, 1–21–64, Cl. 260—530.
Lynn, John W., R. L. Roberts, and S. W. Tinsley, to Union Carbide Corp. Epoxy esters of polycarboxylic acids. 3,122,568, 2–25–64, Cl. 260—348.
Lynn, John W., and T. K. Brotherton, to Union Carbide Corp. Unsaturated isocyanates and process for preparation. 3,141,900, 7–21–64, Cl. 260—453.
Lynn, John W., and B. D. Ash, to Union Carbide Corp. Process for purification of N-alkyl-N-vinyl amides. 3,144,-396, 8–11–64, Cl. 202—42.
Lynn, Lawrence B., to Westinghouse Electric Corp. Electric motor bearing lubrication system. 3,148,006, 9–8–64, Cl. 308—127.
Lynn, Philip F., to Sylvania Electric Products Inc. Filament forming apparatus. 3,163,186, 12–29–64, Cl. 140—71.5.
Lynn, Rice P. Apparatus for producing carbon black. 3,150,-933, 9–29–64, Cl. 23—259.5.
Lynn, Robert J., to Vapor Corp. Door operator. 3,116,805, 1–7–64, Cl. 180—82.
Lynn, Robert R.: *See*—
Drees, Jan M., Blankenship, and Lynn. 3,148,733.
Lynn, Vernald G.: *See*—
Boyd, Winnett, Paget, and Lynn. 3,149,045.
Lynott, John J.: *See*—
Stevens, Louis D., Goddard, and Lynott. 3,134,097.
Lyon, Charles M.: *See*—
Maury, Alfred D., and Lyon. 3,152,771.
Lyon, Donald G. Variable shaped airfoil. 3,127,130, 3–31–64, Cl. 244—44.
Lyon, Floyd, and T. Aronson, to United States of America, Navy. Photographic mission simulator. 3,131,487, 5–5–64, Cl. 35—12.
Lyon, Floyd A., and C. R. Konazewski, to Halm Industries Co., Inc. Booklet feeding means. 3,131,930, 5–5–64, Cl. 271—29.
Lyon, Floyd A., and C. R. Konazewski, to Halm Instrument Co., Inc. Rotary capping means. 3,137,929, 6–23–64, Cl. 29—203.
Lyon, Frank E.: *See*—
Loeffler, Lawrence A., and Lyon. 3,155,540.
Lyon, Gilbert T. Shielded hose coupling and assembly. 3,120,966, 2–11–64, Cl. 285—116.
Lyon, Gilbert T., to L & L Mfg. Co. Tube coupling. 3,151,893, 10–6–64, Cl. 285—158.
Lyon Inc.: *See*—
Aronson, Theodore F., and Lyon. 3,143,938.
Hemstreet, Edward G. 3,145,059.
Judd, John S. 3,145,062.
Martin, Wayne A. 3,137,057.
Lyon, James. Portable hand operated beak cutter and cauterizer for fowl and the like. 3,136,315, 6–9–64, Cl. 128—303.1.
Lyon, James E. Filler wad for shotgun shells. 3,120,807, 2–11–64, Cl. 102—42.
Lyon, John K., and G. Potapenko. Pressurized dispenser having a valve with a measuring chamber. 3,126,132, 3–24–64, Cl. 222—355.
Lyon, John K., Jr. Adjustable shock absorber system for vehicles. 3,141,659, 7–21–64, Cl. 267—11.
Lyon, Lyman R., to Square D Co. Tandem circuit breaker. 3,134,051, 5–19–64, Cl. 317—119.
Lyon, Lyman R. Planking construction for boats and the like. 3,156,210, 11–10–64. Cl. 114—84.
Lyon, Robert J., to United States of America, Navy. Double-acting safety initiator. 3,162,120, 12–22–64, Cl. 102—18.
Lyon, Roy: *See*—
Axson, Michael, Linnert, Lyon, and Robinson. 3,148,842.
Lyon, Royal E., to Hughes Aircraft Co. Linear sweep generator. 3,140,453, 7–7–64, Cl. 331—152.
Lyon, William H., to The Soundscriber Corp. Dictation recording and reproducing apparatus. 3,118,679, 1–21–64, Cl. 274—9.
Lyon, William H., to The Soundscriber Corp. Automatic recorder-reproducer systems. 3,125,644, 3–17–64, Cl. 179—100.2.
Lyons, George E., and R. A. Barbeau, to International Business Machine Corp. High-speed punching mechanism. 3,126,150, 3–24–64, Cl. 234—115.
Lyons, Glen E.: *See*—
Higgs, Ernest R., and Lyons. 3,118,271.
Lyons, Harold D.: *See*—
Nowlin, Gene, and Lyons. 3,152,089.
Lyons, James M., to Dana Corp. Alignment device. 3,145,-547, 8–25–64, Cl. 64—17.
Lyons, Jim. Pneumatic valve return for internal combustion engines. 3,120,221, 2–4–64, Cl. 123—90.
Lyons, Joseph F.: *See*—
Odell, Norman R., and Lyons. 3,150,090.
Lyons, Leo J. Race car wheel changing machine. Re. 25,602, 6–16–64, Cl. 29—240.
Lyons, Orlin W.: *See*—
Hanson, Alden W., and Lyons. 3,151,678.
Lyons, Philip D. Sound reproducing and recording device. 3,139,490, 6–30–64, Cl. 179—115.5.
Lyons, Raymond J., Jr., to Nalco Chemical Co. Treating metal surfaces to increase the coefficient of friction. 3,120,-818, 2–11–64, Cl. 104—1.

Lyons, Vincent J., to International Business Machines Corp. Method of synthesizing III–V compound semiconductor epitaxial layers having a specified conductivity type without impurity additions. 3,145,125, 8–18–64, Cl. 148—175.
Lyons, William C. Form for recessed concrete stairway. 3,147,531, 9–8–64, Cl. 25—118.
Lyons, William F., Jr., to United States of America, Navy. Retrace insertion system. 3,145,378, 8–18–64, Cl. 343—5.
Lysaght, John (Australia), Ltd.: *See*—
Richards, Peter N., and Cameron. 3,162,553.
Lysholm, Alf. Plate type heat exchanger. 3,151,675, 10–6–64, Cl. 165—166.
Lysle, Gordon, to Fairchild Camera and Instrument Corp. Panoramic aerial camera. 3,160,082, 12–8–64, Cl. 95—12.5.
Lyster, Thomas C., to Wildman Jacquard Co. Pattern control means for knitting machines. 3,141,314, 7–21–64, Cl. 66—50.
Lyte, George A.: *See*—
Griffith, George L., Lyte, and Wells. Re. 25,685.
Lytle, George F., to Alvey Conveyor Mfg. Co. Vacuum cup units for lifting pads. 3,152,828, 10–13–64, Cl. 294—64.
Lytle, Kenneth A., to Jaybee Mfg. Corp. Door lock and latch mechanism. 3,136,572, 6–9–64, Cl. 292—336.3.
Lytle, Lawrence D.: *See*—
Graham, David E., Hort, Lytle, and Normington. 3,148,195.
Lytton, Herbert C. Smoke purifying devices. 3,163,168, 12–29–64, Cl. 131—173.
Lytton, Kenneth G., to Fiber Controls Corp. Apparatus for feeding textile fibers in a uniform stream. 3,132,709, 5–12–64, Cl. 177—114.
Lytton, Kenneth G., to Fiber Controls Corp. Fiber feeding apparatus. 3,142,348, 7–28–64, Cl. 177—114.
Lytton, Kenneth G., C. W. Barnes, and C. S. Wise, to Fiber Controls Corp. Fiber-blending apparatus. Re. 25,609. 6–30–64, Cl. 177—80.
Lytton, Kenneth G., and C. S. Wise, to Fiber Controls Corp. Textile fiber web former and electrical means for maintaining constant thickness thereof. 3,158,291, 11–24–64, Cl. 222—39.
M.A.N.-Turbomotoren G.m.b.H.: *See*—
Leibach, Heinrich, and Riemerschmid. 3,122,343.
M-B-Corp.: *See*—
Weir, James F. 3,124,371.
Weir, James F. 3,156,937.
MBM Mineral Industries: *See*—
Hardy, Robert N. 3,124,078.
M.C.D.C. Corp.: *See*—
Ragsdale Mazera, Hazel, and Clark. 3,144,666.
M-C-M Machine Works: *See*—
Moorhead, Charles O. 3,137,179.
M & D Store Fixtures, Inc.: *See*—
Mapson, Donald L. 3,125,042.
M. G. Plastics Ltd.: *See*—
Milligan, John. 3,132,195.
MHD Research, Inc.: *See*—
Orbach, Harry K. 3,119,758.
M.J.B. Co.: *See*—
Bardet, George V. 3,160,483.
M.J.C. Development Co., Inc.: *See*—
Johnson, Clarence T. 3,150,404.
M.K.M. Knitting Mills, Inc.: *See*—
Boutillette, Edward J. 3,157,035.
Gordon, Barnett D., and Trust. 3,117,433.
M. L. Aviation Co.: *See*—
Lobelle, Marcel J. O. 3,138,101.
M. L. Aviation Co. Ltd.: *See*—
Lobelle, Marcel J. O. 3,128,469.
Lobelle, Marcel J. O. 3,157,885.
M-O Valve Co. Ltd., The: *See*—
Baker, Basil O., and Wheldon. 3,130,344.
Gillies, James, and Reddish. 3,155,867.
MPO Videotronics, Inc.: *See*—
Woelfel, Donald G. 3,134,552.
M.R.M. Co., Inc.: *See*—
Manas, Herman D. and R. J. 3,126,309.
M-R-S Mfg. Co.: *See*—
Monk, James T. 3,152,400.
Monk, James T. 3,161,254.
M.S.A. Research Corp.: *See*—
Ciarlariello, Thomas A. 3,126,904.
M.T. Chemicals Inc.: *See*—
Harris, Brian W., and Seyb. 3,147,153.
Li, Tsi T. 3,163,629.
Seyb, Edgar J., Jr., and Wallace. 3,141,836.
M & T Chemicals Inc.: *See*—
Banks, Clarence K., and Edwards. 3,148,943.
Edwards, Leonard M., and Richter. 3,121,005.
Hartman, John A., and Passal. 3,139,393.
Johnson, Andy A. 3,129,149.
Lienhardt, Winfield S. 3,152,888.
Mack, Gerry P. 3,147,285.
Ramsden, Hugh E. 3,143,531.
Seyb, Edgar J., Jr. 3,121,032.
M-T Liquidation Corp.: *See*—
George, Stephen. 3,146,008.
M/T Mfg. & Supply Co., Inc.: *See*—
O'Brien, Edward F. 3,161,352.
O'Brien, Edward F., and Torbett. 3,127,097.
M.T. & D. Co.: *See*—
Schurra, Alphonse. 3,134,375.
M.T.I. Le Materiel Technique Industrial: *See*—
Lemonnier, Pierre L. A. 3,155,790.
Maag Gear Wheel & Machine Co. Ltd.: *See*—
Muller, Karl. 3,122,839.
Muller, Karl. 3,160,959.
Sigg, Hans. 3,154,181.
Maartman, Sten, and S. Gustafsson, to Svenska Flaktfabriken, Aktiebolaget. Emission electrode system. 3,158,453, 11–24–64, Cl. 55—112.
Maas, Dieter, to Agfa Aktiengesellschaft. Shutter for cameras. 3,118,361, 1–21–64, Cl. 95—59.
Maas, Dieter, to Agfa Aktiengesellschaft. Automatic camera with scanning. 3,126,800, 3–31–64, Cl. 95—10.
Maas, Dieter, and D. Engelsmann, to Agfa Aktiengesellschaft. Automatic cameras. 3,155,023, 11–3–64, Cl. 95—10.
Maas, Henricus J., and M. G. Aalpoel, to Koninklijke Vereenigde Tabaksindustrieen Mignot & de Block N.V. Apparatus for applying a wrapper leaf on a cigar bunch. 3,155,098, 11–3–64, Cl. 131—33.
Maas, Henricus J., and M. G. Aalpoel, to Koninklijke Vereenigde Tabaksindustrieen Mignot & de Block N.V. Apparatus for applying a wrapper leaf on a cigar bunch. 3,160,160, 12–8–64, Cl. 131—29.
Maas, Ralph A.: *See*—
Zernov, Peter, and Maas. 3,160,412.
Maas & Wallstein Co.: *See*—
Congleton, John S., and Simon. 3,149,994.
Maasberg, Wolfgang, to Woma-Apparatebau Wolfgang Maasberg & Co., G.m.b.H. Device for cleaning roadways and similar surfaces. 3,151,348, 10–6–64, Cl. 15—320.
Maaskant, Leendert, to Algemene Kunstzijde Unie N.V. Apparatus for drawing thread-shaped products. 3,137,033, 6–16–64, Cl. 18—8.
Maass, Franz, and W. Wehmeyer, to Schloemann Aktiengesellschaft. Changing the mandrel of a tube-extrusion press. 3,157,283, 11–17–64, Cl. 207—19.
Maass, Herbert W. Locking plates for pitless well adaptors. 3,161,424, 12–15–64, Cl. 285—18.
Maass, Klaus K., to General Precision, Inc. Pulse time selector with minimum delay time. 3,132,263, 5–5–64, Cl. 307—88.5.
Maassen, Wilhelm: *See*—
Fürst, Stefan, and Maassen. 3,131,885.
Maasveem, Rotterdam, R.V.: *See*—
Wouters, Otto J. 3,119,700.
Maatschappij Tot Exploitatie Van Limburgsche Steenkolenmijnen, N.V.: *See*—
Dorren, Theodoor O. H. J. 3,157,138.
Maatschappy van Berkel's Patent N.V.: *See*—
Verduin, Adrianus. 3,131,373.
Maben, Malcolm R.: *See*—
Campbell, Rodney B. 3,132,869.
Mabrey, David W., and W. P. Altmiller., to Devoe & Raynolds Co., Inc. Thermoset compositions based on vinyl pyrrolidone containing carboxy polymers-polyepoxide compositions. 3,160,676, 12–8–64, Cl. 260—834.
Mabru, Marcel: *See*—
Levecque, Marcel, and Mabru. 3,152,878.
Mabuchi, Shigeaki, to Nihon Gakki Sizo Kabushiki Kaisha. System for generating rhythm tones. 3,141,919, 7–21–64, Cl. 84—1.26.
Macalady, Frank E.: *See*—
Mairs, William H., and Macalady. 3,128,671.
Macalaster Scientific Corp.: *See*—
Vash, Arthur M., Little, and Perry. 3,163,805.
MacAllister, Robert V.: *See*—
Bender, William A., MacAllister, and Sienkiewicz. 3,133,053.
MacAllister, Robert V., and C. H. Spotholz, to General Foods Corp. Coffee roasting. 3,122,439, 2–25–64, Cl. 99—68.
MacAlonan, Arnold W.: *See*—
Kravetz, John J., and MacAlonan. 3,124,832.
MacAlpine, Roderick T. Portable shaft sinking assembly. 3,123,240, 3–3–64, Cl. 214—709.
MacArthur, Arthur. Step motor. 3,121,812, 2–18–64, Cl. 310—49.
MacArthur, Curtis S., to Raytheon Co. Grid manufacture. 3,145,740, 8–25–64, Cl. 140—71.5.
MacArthur, James R. Scoring device. 3,148,470, 9–15–64, Cl. 40—65.
Macartney, Bruce J., to The Fyr-Fyter Co. Sprinkler head. 3,161,236, 12–15–64, Cl. 169—39.
Macaulay, Malcolm: *See*—
Orenstein, Edward D., and Macaulay. 3,161,866.
Macaulay, Malcolm, to Sperry Rand Corp. Method and apparatus for visual presentation of digital and analog information. 3,159,830, 12–1–64, Cl. 343—5.
MacAvoy, Thomas C.: *See*—
Hood, Harrison P., and MacAvoy. 3,149,234.
MacBeth, Gordon, to The Dow Chemical Co. Method of removing tar from phenol reactor contents. 3,130,235, 4–21–64, Cl. 260—621.
MacChesney, Chester M., to Ellamac Inc. Cleaning assembly for use in a garden hose or the like. 3,120,015, 2–4–64, Cl. 15—3.5.
Macchini, Mario. Forging universal joint yokes, and the like. 3,124,877, 3–17–64, Cl. 29—551.
Macchione, John M. Method of and apparatus for producing tubes of polygonal cross section. 3,120,158, 2–4–64, Cl. 93—80.

Macciocchi, Fiore: *See*—
Macciocchi, John T., J. and F. 3,138,821.
Macciocchi, Jack: *See*—
Macciocchi, John T., J. and F. 3,138,821.
Macciocchi, John T., J. and F. Tuck pointing bag. 3,138,-821, 6–30–64, Cl. 15—595.
MacCollum, Donald R.: *See*—
Kleinberg, Joseph S., and MacCollum. 3,125,358.
MacConnell, Donald G.: *See*—
Schulman, Larry H., and MacConnell. 3,152,732.
MacCoon, Laurence P. Compression band. 3,131,466, 5–5–64, Cl. 29—269.
MacCracken, Douglas C., Jr., and C. J. Mellon, to General Electric Co. Arrangement for insulating coil leads and spacing end turns in a dynamoelectric machine. 3,151,260, 9–29–64, Cl. 310—43.
MacCurdy, William K.: *See*—
Crane, Hewitt D., and MacCurdy. 3,139,609.
MacDermid, Inc.: *See*—
Grunwald, John J. 3,140,203.
MacDonald, Alexander T., to Electric & Musical Industries Ltd. Automatic position control devices. 3,117,263, 1–7–64, Cl. 318—28.
MacDonald, Charles, to National Castings Co. Remote control apparatus. 3,141,381, 7–21–64, Cl. 91—42.
MacDonald, Gladys E. Medical examination gown. 3,160,-891, 12–15–64, Cl. 2—69.
MacDonald, Horace L., to R. E. MacDonald. Rotary and oscillatory tumbler washing machine. 3,131,408, 5–5–64, Cl. 15—76.
MacDonald, James A., to The Consolidated Mining and Smelting Co. of Canada Ltd. Tube connector. 3,120,965, 2–11–64, Cl. 285—18.
MacDonald, James E. Stove for blast furnace operation. 3,122,359, 2–25–64, Cl. 263—19.
MacDonald, John G.: *See*—
Rabinow, Jacob, and MacDonald. 3,123,290.
MacDonald, Robert D.: *See*—
McMillan, Stewart H., Mottin, Sutton, MacDonald, and Linck. 3,123,217.
Mottin, Ralph E., and MacDonald. 3,146,887.
MacDonald, Ronald A., and P. M. Handke, to Fisher Scientific Co. Sample valve. 3,162,050, 12–22–64, Cl. 73—422.
MacDonald, Ruth E.: *See*—
MacDonald, Horace L. 3,131,408.
Macdonald, Somerled, and H. T. Stirling, to Koppers Co., Inc. Method and apparatus for measuring and controlling moisture in a sinter mix. 3,148,971, 9–15–64, Cl. 75—5.
Macdonald and Sons, Inc.: *See*—
Macdonald, Walter. 3,125,784.
Macdonald, Walter, to Macdonald and Sons, Inc. Long draft cradle. 3,125,784, 3–24–64, Cl. 19—255.
MacDonell, Herbert L. Method of developing latent fingerprints. 3,132,036, 5–5–64, Cl. 117—.5.
MacDonnell, Donald R.: *See*—
Heimlich, Kenneth R., and MacDonnell. 3,119,742.
MacDonnell, Donald R., to Smith Kline & French Laboratories. Medicinal compositions and method for relieving cough. 3,156,614, 11–10–64, Cl. 167—54.
MacDonnell, James A., to Gilbert & Barker Mfg. Co. Liquid dispensing apparatus having improved delivery hose retriever means. 3,143,367, 8–4–64, Cl. 287—92.
MacDougal, Joseph R., to Frank W. Horner Ltd. 2-p-methoxybenzenesulfonamide-5-isobutyl-1,3,4-thiadiazole in the oral treatment of acne. 3,137,620, 6–16–64, Cl. 167—55.
MacDougall, Daniel, to George Angus & Co. Ltd. Production of reinforced endless rubbert belts or bands. 3,154,451, 10–27–64, Cl. 156—137.
MacDougall, Irvine: *See*—
Kuzell, Charles R., Fowler, Davis, Klein, and MacDougall. 3,125,439.
MacDowell, John F.: *See*—
Eppler, Richard A., MacDowell, and Stetler. 3,149,947.
MacDuffie, Marshall, and S. Varro, Jr., to Waste Processes, Inc. Method of converting waste material into fertilizer. 3,142,557, 7–28–64, Cl. 71—9.
Mace: *See*—
Mason, Jimmie L. 3,124,335.
Mace, Nute. Combined fish net and tackle box. 3,156,063, 11–10–64, Cl. 43—11.
Macek, Thomas J., J. D. Mullins, and P. A. Ouellette, to Merck & Co., Inc. Solutions of steroid phosphate and basic antibiotics stabilized with creatinine. 3,146,164, 8–25–64, Cl. 167—77.
Macey, Alan, and K. C. Stowell, to Associated Bristol Maltsters Ltd. Malting processes involving treatment with a gibberelic acid product. 3,158,551, 11–24–64, Cl. 195—70.
Macey, Peter E., and P. Oxley, to Boots Pure Drug Co. Ltd. Selective hydrogenation pregnadienolone and its esters at the C_{16}-C_{17} position. 3,125,588, 3–17–64, Cl. 260—397.4.
MacFarland, Charles H., to The Scott & Fetzer Co. Hassock type vacuum cleaner. 3,159,862, 12–8–64, Cl. 15—323.
MacFarlane, Carolyn H. Voice reflector. 3,155,189, 11–3–64, Cl. 181—20.
MacFarlane, Donald R., to Western Electric Co., Inc. Universal joint. 3,117,431, 1–14–64, Cl. 64—10.
MacFarlane, Donald R., to United States of America, Atomic Energy Commission. Nuclear reactor. 3,160,568, 12–8–64, Cl. 176—29.
Macfarlane Engineering Co. Ltd. The: *See*—
Macfarlane, William I. 3,132,272.
Macfarlane, George C., and K. B. Thirsk. Portable power operated chamfering tool. 3,131,599, 5–5–64, Cl. 90—12.
MacFarlane, John, to The Theodore D. Bross Line Construction Corp. Line string block. 3,145,973, 8–25–64, Cl. 254—134.3.
MacFarlane, John O., R. A. Elliott, and R. J. Hosley, to Eli Lilly and Co. Measles vaccine. 3,132,073, 5–5–64, Cl. 167—78.
MacFarlane, Robert B., to Polymer Corp. Ltd. Stabilization of polyolefins. 3,159,598, 12–1–64, Cl. 260—45.9.
MacFarlane, Walter J.: *See*—
Reiss, Edmund F., and MacFarlane. 3,138,474.
Macfarlane, William I., to The Macfarlane Engineering Co. Ltd. Dynamo-electric machines. 3,132,272, 5–5–64, Cl. 310—168.
MacFee, Norman W.: *See*—
Lawrence, Charles T., MacFee, and Rae. 3,122,810.
Macgeorge, William D., to The Budd Co. Differential transformer extensometer. 3,151,399, 10–6–64, Cl. 33—147.
Macgeorge, William D., and J. T. Derr, to Tinius Olsen Testing Machine Co. Multi-range maximum load indicator. 3,146,618, 9–1–64, Cl. 73—88.5.
MacGlashan, William F., Jr.: *See*—
Webb, James E. 3,127,157.
Webb, James E. 3,140,728.
MacGregor, Dean J., to Westinghouse Electric Corp. Power factor sensing system for synchronous machines. 3,145,-332, 8–18–64, Cl. 318—179.
MacGregor, Dean J., S. D. Henderson, Jr., and A. S. Nadrowski, to Westinghouse Electric Corp. Gating control system wherein polyphase line voltages are phase gated by controlled gating signal. 3,154,695, 10–27–64, Cl. 307—88.5.
MacGregor, James G., to AMS Corp. Window sash constructions. 3,116,520, 1–7–64, Cl. 20—52.2.
MacGregor, Morris, to Burroughs Corp. Item jam detection apparatus. 3,150,873, 9–29–64, Cl. 271—57.
MacGregor, Neil: *See*—
Dutton, Richard H., and MacGregor. 3,122,673.
MacGregor, Sandra W., to North American Aviation, Inc. Shock preventive mounting structure. 3,146,980, 9–1–64, Cl. 248—20.
MacGregor, Warren S., to Crown Zellerbach Corp. Process for producing sulfonium compounds. 3,133,971, 5–19–64, Cl. 260—607.
Macha, Edward A., and O. P. Steele, III, to Westinghouse Electric Corp. Dynamoelectric machinery. 3,155,856, 11–3–64, Cl. 310—57.
Macha, Milo V.: *See*—
Pelfrey, Lowell S., Kadelburg, and Macha. 3,147,414.
Machacek, George J., Jr., to Liberty National Bank and Trust Co. Machine for grinding knives. 3,151,420, 10–6–64, Cl. 51—112.
Machado, Alphonso B.: *See*—
Rose, Boyd W., and Machado. 3,119,218.
Machat, Stephan, A. Günther, and S. Mai, to Licentia Patent-Verwaltungs-G.m.b.H. Motion converter mechanism for enclosed switch gear. 3,150,248, 9–22–64, Cl. 200—172.
Macherey, Charles L., to Societe Generale de Constructions Electriques & Mecaniques (Alsthom). Combined gas-steam cycle installations for boilers incorporating pressurized furnaces. 3,137,134, 6–16–64, Cl. 60—39.18.
Macherey, Charles L., to Societe Generale de Constructions Electriques & Mecaniques (Alsthom). Combined steam and gas turbine power plant. 3,138,925, 6–30–64, Cl. 60—39.18.
Machine Design Corp.: *See*—
Keesling, Clifford E. 3,146,810.
Machine Tool Automation, Inc.: *See*—
Wolff, Gunther. 3,131,387.
Machine Tool Works Oerlikon, Administration Co.: *See*—
Apotheloz, Robert. 3,142,225.
Müller, Adrian. 3,116,591.
Machinenfabrik Froriep G.m.b.H.: *See*—
Hermanns, Erich H., von der Linde, and Weber. 3,163,-089.
Machinery Establishment: *See*—
Kammann, Werner, and Moller. 3,158,885.
Machinery and Welder Corp.: *See*—
Meyer, Gilbert F. 3,128,370.
Machines Bull (Societé Anonyme), Compagnie des: *See*—
Brellier, Roger E. 3,118,716.
Feissel, Henri G. 3,140,401.
Gallard, Jean H. M., and Sigel. 3,162,345.
Martin, Claude R. M. 3,133,497.
Smithson, David J. 3,143,667.
Machines Electrostatiques, Societe Anonyme de: *See*—
Point, Marcel A. R. 3,148,831.
Point, Marcel A. R. 3,148,832.
Machlanski, Sigmund H., and T. R. Wallace, to Aerojet-General Corp. Compartment pressure regulating device. 3,137,308, 6–16–64, Cl. 137—63.
Machleidt, Hans: *See*—
Wessendorf, Richard, Machleidt, and Klockow. 3,151,152.
Machlett Laboratories, Inc., The: *See*—
Doolittle, Howard D. 3,153,170.
Fengler, William W. 3,134,903.
Steen, Gottfrid W. 3,153,738.
Machlis, Jerome, to Telecomputing Corp. Analog measuring system. 3,125,716, 3–17–64, Cl. 323—122.
Machol, Morris R., and C. A. Reams. Means for unwatering graving docks. 3,136,132, 6–9–64, Cl. 61—64.
Macintosh, Charles, and W. Gottschalk, Jr. Conveyor. 3,150,-766, 9–29–64, Cl. 198—187.

MacIntosh, Joseph R., to General Electric Co. Tool for tightening wires and breaking the ends thereof. 3,163,187, 12–29–64, Cl. 140—93.6.

Macintyre, John S., to Laboratory For Electronics, Inc. Radioactive source housing with remotely operated shutter. 3,141,976, 7–21–64, Cl. 250—105.

MacIntyre, Robert M., to Ford Motor Co. Multiple level logic system. 3,155,834, 11–3–64, Cl. 307—88.

MacIntyre, Robert M., to The Bunker-Ramo Corp. Current switching circuits. 3,162,817, 12–22–64, Cl. 328—91.

MacIntyre, Ronald, to Specialties Development Corp. Molding apparatus. 3,123,864, 3–10–64, Cl. 18—30.

MacIntyre, Wilfred J. Golf club head having two weight receiving recesses to individually vary the weight of the toe and heel portions. 3,143,349, 8–4–64, Cl. 273—171.

Mack, Bernhard V. Jacketed-cast bullet. 3,142,256, 7–28–64, Cl. 102—92.5.

Mack, Clifford R. Reinforced bag. 3,130,896, 4–28–64, Cl. 229—55.

Mack, Ernest: *See*—
Miller, Abe, and Mack. 3,136,718.

Mack, Gerry P., to M & T Chemicals, Inc. Epoxy organotin compounds. 3,147,285, 9–1–64, Cl. 260—348.

Mack, Grant V., to Reynolds Metals Co. Shelf structure including a conduit. 3,144,079, 8–11–64, Cl. 165—67.

Mack, Harold J.: *See*—
Keys, Richard V. 3,153,958.

Mack, Louis P. Sacroiliac belt. 3,154,072, 10–27–64, Cl. 128—78.

Mack, Marian, to North American Philips Co., Inc. Specimen holder for X-ray powder analysis. 3,148,275, 9–8–64, Cl. 250—51.5.

Mack, Michael J., to Deere & Co. High-low-reverse transmission. 3,149,498, 9–22–64, Cl. 74—364.

Mack Trucks, Inc.: *See*—
Heine, Lawrence J. 3,152,259.
Mintz, Gerald E. 3,151,695.
Rutman, Ralph G., and Logan. 3,146,847.
Zeller, Theodore J. 3,139,329.

Mack, Wayne M.: *See*—
Behrens, Herbert C., Mack, and Metzler. 3,163,323.

MacKay, Francis. Dental equipment. 3,130,494, 4–28–64, Cl. 32—20.

MacKay, George L.: *See*—
Jones, Bobby B. 3,151,577.
Jones, Bobby B. 3,151,578.

Mackay, Hugh J. Fishing lure storage facilities. 3,146,544, 9–1–64, Cl. 43—57.5.

Mackay, James B.: *See*—
Henle, Robert A., and Mackay. Re. 25,573.

MacKay, James K. L., to North American Aviation, Inc. Tilt-wing aircraft. 3,141,633, 7–21–64, Cl. 244—7.

Mackay, Johnstone S.: *See*—
Crowley, Edgar I., Mackay, Manes, and Vancheri. 3,158,-611.

MacKay, Joseph H., Jr., and M. J. McKellar. Finishing articles and support members therefor, finishing materials and method of making same. 3,149,442, 9–22–64, Cl. 51—195.

MacKay, Joseph H., Jr., and M. J. McKellar. Finishing article holder and support pad. 3,158,972, 12–1–64, Cl. 51—377.

Mackay, Joyce M. Shoe covering. 3,141,247, 7–21–64, Cl. 36—7.1.

MacKay, Julia F.: *See*—
Jones, Bobby B. 3,151,577.
Jones, Bobby B. 3,151,578.

MacKay, Kenneth: *See*—
Jones, Bobby B. 3,151,577.
Jones, Bobby B. 3,151,578.

MacKay, Kenneth H., Jr.: *See*—
Jones, Bobby B. 3,151,577.
Jones, Bobby B. 3,151,578.

Mackay, Lottie E.: *See*—
Hitchings, George H., Elion, and Mackay. 3,128,274.
Hitchings, George H., Elion, and Mackay. 3,149,111.

Mackay, Ralph S., E. Marg, and R. W. Oechsli, to The Regents of the University of California. Tonometer. 3,150,520, 9–29–64, Cl. 73—80.

Mackay, Ralph S., E. Marg, and R. W. Oechsli, to The Regents of the University of California. Tonometer. 3,150,521, 9–29–64, Cl. 73—80.

Mackay, William F., to Automatic Electric Laboratories, Inc. Shipping container. 3,136,414, 6–9–64, Cl. 206—46.

MacKellar, Alexander C.: *See*—
Nichols, John W. D. and MacKellar. 3,154,743.

Macken, John T.: *See*—
Rosemond, Leland E., and Macken. 3,119,903.

MacKenzie, Burton T., Jr.: *See*—
Anderson, Robert P., and MacKenzie. 3,118,785.
Katchman, Arthur, and MacKenzie. 3,118,786.

MacKenzie, Edward T. Automatic poultry feeding device. 3,130,708, 4–28–64, Cl. 119—53.

MacKenzie Electronics, Inc.: *See*—
MacKenzie, Louis G., Crabtree, and Cooper. 3,117,184.

MacKenzie, Forbes. Life saving devices. 3,121,240, 2–18–64, Cl. 9—316.

Mackenzie, Frederick W., to Letraset Ltd. Adhesive transfers. 3,131,106, 4–28–64, Cl. 156—230.

MacKenzie, Gerald L.: *See*—
Camp, Albert T., and MacKenzie. 3,156,595.

MacKenzie, John. Drainage container. 3,116,682, 1–7–64, Cl. 100—112.

MacKenzie, Louis G. Actuating mechanism for endless tape cartridges. 3,126,162, 3–24–64, Cl. 242—55.19.

MacKenzie, Louis G., L. F. Crabtree, and P. A. Cooper, to Automatic Electric Laboratories, Inc., and MacKenzie Electronics, Inc. Switching arrangements for announcing systems. 3,117,184, 1–7–64, Cl. 179—6.

Mackey, James C.: *See*—
Feay, Darrell C., Mackey, and Byrne. 3,121,706.

Mackey, Marlyn E., ½ to Guy States. Ignition points. 3,160,151, 12–8–64, Cl. 123—146.5.

Mackey, Richard C., to Space Technology Laboratories, Inc. Double sideband suppressed carrier balanced modulator using a ferrit circulation. 3,136,950, 6–9–64, Cl. 325—138.

Mackie, Donald: *See*—
Harris, William M., Mackie, and Meredith. 3,123,452.

Mackie, Harry A., to General Motors Corp. Air cushion load supporting device. 3,161,247, 12–15–64, Cl. 180—7.

Mackie, James, & Sons Ltd.: *See*—
Mackie, John K. P. 3,130,454.
Mackie, John K. P. 3,136,006.

Mackie, John K. P., to James Mackie & Sons Ltd. Textile drafting apparatus. 3,130,454, 4–28–64, Cl. 19—249.

Mackie, John K. P., to James Mackie & Sons Ltd. Textile sliver drafting machines. 3,136,006, 6–9–64, Cl. 19—252.

Mackie, William L., to United States of America, Navy. Light weight-high thermal resistant airfoil. 3,145,000, 8–18–64, Cl. 244—123.

Mackiewicz, Czeslaw, to Harvey Hubbell, Inc. Weatherproof lift cover plate for electrical wiring devices. 3,137,407, 6–16–64, Cl. 220—24.3.

Mackin, P. A.: *See*—
Jackson, Carroll R., Sr. 3,153,833.

MacKinney, John J.: *See*—
Van Sciver, Herbert D., II, MacKinney, and Hurlebaus. 3,131,726.

MacKinney, Paul M. Apparatus for mixing concrete. 3,117,-640, 1–14–64, Cl. 177—80.

Mackinnon, John, to General Electric Co. Process for preparing organohalosilanes. 3,132,168, 5–5–64, Cl. 260—448.2.

MacKinnon, Louis P.: *See*—
Goodloe, Paul M., and MacKinnon. 3,154,430.

Mackiw, Vladimir N.: *See*—
Brown, Eldon L., and Mackiw. 3,141,765.

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Mackles, Leonard: *See*—
Livingston, Sidney, and Mackles. 3,125,475.

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MacKool, Lewis J. Hatchet scabbard. 3,130,883, 4–28–64, Cl. 224—5.

Macks, Elmer F. Nocontacting dirt seal for an electric motor. 3,121,179, 2–11–64, Cl. 310—90.

Macks, Elmer F. Tool support and drive. 3,124,979, 3–17–64, Cl. 77—33.5.

Macks, Elmer F. Fluid supported device. 3,127,955, 4–7–64, Cl. 184—18.

Macks, Elmer F. Bearing construction. 3,150,279, 9–22–64, Cl. 310—90.

MacKusick, Meredith H.: *See*—
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MacKusick, Meredith H., to The Firestone Tire & Rubber Co. Resilient base for containers. 3,143,243, 8–4–64, Cl. 220—69.

MacKusick, Meredith H., and D. W. Voorhees, to The Firestone Tire & Rubber Co. Boat trailer. 3,122,245, 2–25–64, Cl. 214—84.

MacLagan, Robert T., to Pioneers Processing Equipment. Egg handling machinery. 3,137,330, 6–16–64, Cl. 146—2.

MacLain, Manuel A., to Bailey Meter Co. Function generator. 3,162,833, 12–22–64, Cl. 338—89.

MacLaren, Donald D.: *See*—
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Maclaren, Owen F. Seating structures. 3,124,387, 3–10–64, Cl. 297—16.

MacLaren, Richard O.: *See*—
Hurley, Thomas J., Jr., MacLaren, and Whitney. 3,143,-391.

MacLaughlin, Lucius T., and O. L. Bullerwell. Guard for spring locks. 3,149,870, 9–22–64, Cl. 292—346.

Maclay, William R., to International Business Machines Corp. Electromechanical system. 3,156,912, 11–10–64, Cl. 340—347.

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MacLean, John A., Jr. 3,157,942.

MacLean, John A., Jr., to MacLean-Fogg Lock Nut Co. Method of applying securing means. 3,157,942, 11–24–64, Cl. 29—432.

MacLean, Malcolm A., to B. R. Oster Corp. Sign construction for attachment to the side, rear or front of the roof of buses, streetcars and like vehicles. 3,152,416, 10–13–64, Cl. 40—129.

MacLean, Philip A., to Rexim Laboratories, Inc. Mixing device. 3,137,481, 6–16–64, Cl. 259—97.

MacLelland, Willis G., to Anaconda Wire and Cable Co. Lead base alloy. 3,126,278, 3–24–64, Cl. 75—166.

MacLeod, Donald A., to American Telephone and Telegraph Co. Transmission loss pad control system. 3,135,833, 6–2–64, Cl. 179—16.
MacLeod, Donald A., to American Telephone and Telegraph Co. Call distributing circuit. 3,142,728, 7–28–64, Cl. 179—27.
Macleod, John A., to Dayco Corp. Rollers. 3,152,387, 10–13–64, Cl. 29—130.
MacLeod, John H., Jr., to H. H. Robertson Co. Underfloor blind electrical terminal box. 3,131,512, 5–5–64, Cl. 50—127.
MacLeod, John N. Snow coaster rudder. 3,123,374, 3–3–64, Cl. 280—12.
MacMillan, Charles W., to Bear Mfg. Co. Wheel alinement apparatus. 3,135,052, 6–2–64, Cl. 33—46.
MacMillan, Donald M. Roll top matrix loader. 3,137,032, 6–16–64, Cl. 18—2.
MacMillan, Henry J., and R. R. Kelleher, to Albany Felt Co. Method of constructing a dimensionally stable dryer felt. 3,123,892, 3–10–64, Cl. 28—72.2.
MacMillan, Raymond A., to United States of America, Air Force. Automatic phase stabilizer system. 3,130,362, 4–21–64, Cl. 323—101.
MacMillan, Robert E., to The Delman Co. Pressure operated switch and actuator combination. 3,149,213, 9–15–64, Cl. 200—83.
MacMillan, Robert E., to The Delman Co. Fluid check valve unit. 3,159,175, 12–1–64, Cl. 137—493.
MacMullen, Clinton W., and A. Marzocchi, to Cowles Chemical Co. Stable silane triol composition and method of treating glass therewith. Re. 25,622, 7–28–64, Cl. 117—126.
MacNair, Donald, to Bell Telephone Laboratories, Inc. Thermionic cathode. 3,159,461, 12–1–64, Cl. 29—195.
MacNeill, John H., to Soroban Engineering, Inc. Variable dwell and lift mechanism for valves. 3,157,166, 11–17–64, Cl. 123—90.
MacNeill, John H., J. E. Bellinger, Jr., and S. D. Bloemendaal, to Socoban Engineering, Inc. Punch and tape feed verifying apparatus. 3,159,337, 12–1–64, Cl. 234—33.
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Macovski, Albert, to Radio Corp. of America. Automatic chroma control from chroma signal. 3,141,064, 7–14–64, Cl. 178—5.4.
Macovski, Albert, and L. F. Schaefer, to Radio Corp. of America. Screen grid pulsing of chroma and burst amplifier. 3,136,846, 6–9–64, Cl. 178—5.4.
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Phillips, Benjamin, Starcher, and MacPeek. 3,141,027.
MacPhail, Donald C., and R. A. Tyler, to National Research Council. Combined gas and stream power plant. 3,148,503, 9–15–64, Cl. 60—39.18.
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MacPherson, John I.: *See*—
Flower, Archibald T., and MacPherson. 3,161,723.
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Lucas, Robert A., MacPhillamy, and Robison. 3,118,893.
Lucas, Robert A., MacPillamy, and Robison. 3,120,532.
MacPhillamy, Harold B., and G. De Stevens, to Ciba Corp. Derivatives of 3,4-dihydro-2H-1,2,4-benzothiadiazine-1,1-dioxides. 3,133,918, 5–19–64, Cl. 260—243.
MacPlum, R. A., Industries, Inc.: *See*—
Umanoff, Martin. 3,148,469.
Umanoff, Martin. 3,157,871.
MacRoberts, Donald T., E. D. Nuttall, and L. E. Savory, to United Gas Corp. Method and system of writing and reading visible and magnetic characters of different magnetic flux densities. 3,125,748, 3–17–64, Cl. 340—174.1.
Macrow, Lawrence: *See*—
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Macrow, Lawrence, to Carrier Corp. Refrigeration systems operable at low condenser pressures. 3,161,029, 12–15–64, Cl. 62—197.
MacSween, George A., to Canadian Ingersoll-Rand Co., Ltd. Drill bit with fluid passages. 3,155,180, 11–3–64, Cl. 175—418.
MacTaggart, Scott & Co. Ltd.: *See*—
Russell, Robert C. 3,122,971.
MacTavish, James A., and C. J. Rawley, to Texas Tennessee Industries, Inc. Recessed handle. 3,153,491, 10–20–64, Cl. 220—9.
Macura, Karl, to Vereinigte Glanzstoff-Fabriken AG. Production of elastic filaments of polyesters containing isocyanate end groups. 3,121,764, 2–18–64, Cl. 264—181.
Macurdy, William B., and H. E. Noweck, to Bell Telephone Laboratories, Inc. Telephone switching system. 3,127,479, 3–31–64, Cl. 179—18.
Macy, Christian D.: *See*—
Murphy, Laurence W., and Macy. 3,135,017.
Macy, Christian D., P. C. Ludvigsen, F. M. Brown, and J. A. Zillgitt, to Geo. A. Hormel & Co. Process and apparatus for producing skinless sausages. 3,132,950, 5–12–64, Cl. 99—109.
Macy, Edgar O., to The B. F. Goodrich Co. Printing plate. 3,130,670, 4–28–64, Cl. 101—376.
Macy, John M., to Dodge Mfg. Corp. Motor mount. 3,125,211, 3–17–64, Cl. 198—213.
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Granzer, Joseph F., III, and Macy. 3,137,060.
Macy, Ruben W.: *See*—
Hebb, Edwin E., Jr., and Macy. 3,118,308.
Maczka, Romwald W. Method for coating silica rods. 3,125,428, 3–17–64, Cl. 65—3.
Madansky, Leslie E., to California Plasteck, Inc. Lamp assembly for panel. 3,132,811, 5–12–64, Cl. 240—8.16.
Madansky, Leslie E., to California Plasteck, Inc. Illuminated instrument panel. 3,153,782, 10–20–64, Cl. 340—366.
Madany, George H., ¼ to V. D. Jarvis. Centrifugal extractor. 3,133,880, 5–19–64, Cl. 233—15.
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Madaras, Julius D. Method of melting sponge iron. 3,153,588, 10–20–64, Cl. 75—12.
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Madden, Thomas J. Book mark. 3,143,998, 8–11–64, Cl. 116—119.
Madding, Robert T. Steam cooker. 3,122,135, 2–25–64, Cl. 126—377.
Maddix, Harold S., to Microwave Associates, Inc. Noise-free TR cells operable in presence of an output VSWR up to 3.0. 3,151,275, 9–29–64, Cl. 315—39.
Maddocks, Fred S.: *See*—
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Maddox, Jim, Jr., and R. B. Perry, to Texaco Inc. Treatment of underground formations to render them less permeable. 3,118,500, 1–21–64, Cl. 166—29.
Maddy, Wilbur L. Loud-speaker enclosure. 3,132,712, 5–12–64, Cl. 181—31.
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Mader, Charles K., and J. Celada, ½ to Pullman Inc., and ½ to Hojalata y Lamina, S.A. Method for reducing metal oxides. 3,136,623, 6–9–64, Cl. 75—34.
Mader, Charles K., and J. Celada, ½ to Pullman Inc., and ½ to Hojalata y Lamina, S.A. Method for reducing metal oxides. 3,136,624, 6–9–64, Cl. 75—34.
Mader, Charles K., and J. Celada, ½ to Pullman Inc., and ½ to Hojalata y Lamina, S.A. Method for reducing metal oxides. 3,136,625, 6–9–64, Cl. 75—34.
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Mades, Rudolf. Ship propellers. 3,122,207, 2–25–64, Cl. 170—160.34.
Madge, Charles H., and W. R. Nagel, to Union Carbide Corp. Process for producing solid chain-terminated polymers of ethylene and alkyl acrylates. 3,117,110, 1–7–64, Cl. 260—86.7.
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Vandersteeg, William J. 3,131,585.
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Madl, Joseph, Jr. Removable partition. 3,126,986, 3–31–64, Cl. 189—34.
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Madwed, Albert, to Automatic Casting Corp. Die casting methods and apparatus. 3,123,875, 3–10–64, Cl. 22—70.
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Magers, Lloyd E., deceased (State Bank and Trust Co., trustee and executor), to Gaylord Bros., Inc. Book stand. 3,149,726, 9–22–64, Cl. 211—134.
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Maggiolo, Allison, to The Welsbach Corp. Method of producing carbonate esters from formals using ozone. 3,139,440, 6–30–64, Cl. 260—340.2.
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Smith, Traver J. 3,145,741.
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Magnuson, Roy M., deceased, by Morton Salt Co., assignee. Apparatus for spraying and/or dispensing liquid. Re. 25,511, 1–7–64, Cl. 141—160.
Magnuson, Roy M., deceased, by Morton Salt Co., assignee. Method of spraying and dispensing liquid. Re. 25,535, 3–10–64, Cl. 99—182.
Magnusson, Bengt G. Low-loss voltage control circuit. 3,117,273, 1–7–64, Cl. 323—22.
Magnusson, Bengt G., to Telefonaktiebolaget L. M. Ericsson. Current regulating arrangement for coincidence memories. 3,155,842, 11–3–64, Cl. 307—88.5.
Magnusson, Folke, and S. H. Monteus; said Magnusson assor. to Aktiebolaget Svenska Flaktfabriken and said Monteus assor. to Aktiebolaget Landsverk. Manufacturing lump sugar. 3,122,107, 2–25–64, Cl. 107—15.
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Englert, Joseph A., Magos, and Bredtschneider. 3,162,455.
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Mahn, Herbert, to Jos. Schneider & Co. Optische Werke. Focusing mechanism for photographic or cinematographic objectives. 3,122,079, 2–25–64, Cl. 95—45.

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Mahoney, Ralph P., to Beloit Corp. Apparatus for improving the surface characteristics of a paper web. 3,124,481, 3–10–64, Cl. 118—60.

Mahoney, Ralph P., to Beloit Iron Works. Method of waxing paper and paper board and apparatus. 3,145,118, 8–18–64, Cl. 117—65.2.

Mahoney, Ralph P., and E. J. Justus, to Beloit Corp. Hot pressure finishing apparatus for web materials. 3,124,480, 3–10–64, Cl. 118—60.

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Maier, Curtis E., to Continental Can Co., Inc. Plastic cup with spaced and tapered radial hollow projections of 90 degrees or less in the finger contact area thereof. 3,157,335, 11–17–64, Cl. 229—1.5.

Maier, Curtis E., and R. M. Brick, to Continental Can Co., Inc. Production of tubular structures. 3,121,950, 2–25–64, Cl. 29—528.

Maier, Curtis E., and R. M. Brick, to Continental Can Co., Inc. Apparatus and method for continuous carting of ingots having longitudinal channels and spacer member therein. 3,136,008, 6–9–64, Cl. 22—57.2.

Maier, Curtis E., and R. M. Brick, to Continental Can Co., Inc. Apparatus for the production of laminate strip. 3,162,907, 12–29–64, Cl. 22—57.2.

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Maier, Elmar. Miniature-type calculating machines. 3,143,291, 8–4–64, Cl. 235—63.

Maier, Eugene, to Soule Steel Co. Expanded metal apparatus. 3,161,943, 12–22–64, Cl. 29—6.2.

Maier, Guenther, to Robert Bosch G.m.b.H. Impulse control arrangement for electromagnetic clutches. 3,163,273, 12–29–64, Cl. 192—84.

Maier, Hartmut W., and E. E. Kühner, to Elba-Werk, Ettlinger Baumaschinen- und Hebezeugfabrik G.m.b.H. Batching plant, particularly for the preparation of concrete with aggregates and concrete binders. 3,124,272, 3–10–64, Cl. 222—77.

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Main, Earl L., and W. L. Mann, Jr., to National Lead Co. System for automatically adding a lime slurry to water. 3,129,717, 4–21–64, Cl. 137—93.
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Mairs, William H., and F. E. Macalady, to United States of America, Navy. Dynamic missile simulator. 3,128,671, 4–14–64, Cl. 89—1.7.
Mairs, William J. Electrical contact device. 3,151,307, 9–29–64, Cl. 338—158.
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Maki, Charles E., to Textron Electronics, Inc. Vibration testing system. 3,157,045, 11–17–64, Cl. 73—71.6.
Maki, Eino J., to Cook-Waite Laboratories, Inc. Disposable cartridge and needle unit. 3,150,661, 9–29–64, Cl. 128—218.
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Makovka, Alexander, to Wims Research Laboratories Inc. Cigarette paper and method of making same. 3,126,010, 3–24–64, Cl. 131—15.
Makow, David M., to National Research Council. Variable-temperature portable testing chambers. 3,130,553, 4–28–64, Cl. 62—3.
Makowski, Alexander G., to American Can Co. Dispensing container having a spout with separable attaching means therefor. 3,122,287, 2–25–64, Cl. 222—542.
Makowski, Alexander G., to American Can Co. Cutter. 3,129,621, 4–21–64, Cl. 82—59.
Makowski, Alexander G., to American Can Co. Hollow plastic article and process of making. 3,137,748, 6–16–64, Cl. 264—97.
Makowski, Alexander G., to American Can Co. Containers and method of making. 3,144,495, 8–11–64, Cl. 264—248.
Makowski, Stephen. Fishing lure. 3,139,695, 7–7–64, Cl. 43—42.36.
Malachowski, Frank, and L. Trillich, to Alsco Inc. Sash clip. 3,137,901, 6–23–64, Cl. 20—40.
Malagari, Frank A., Jr., to Allegheny Ludlum Steel Corp. Austenitic steel. 3,148,979, 9–15–64, Cl. 75—124.
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Malan, George L. Vibrator with separate bearing and compartment-forming surfaces. 3,129,925, 4–21–64, Cl. 259—1.
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Malchair, Armand, to Bureau d'Etudes Armand Malchair Societe Anonyme. Vegetal composition, method and apparatus for its production. 3,131,064, 4–28–64, Cl. 99—2.
Malcho, Robert E., to Aerojet-General Corp. Shaft synchronizing and phasing motor control system. 3,135,905, 6–2–64, Cl. 318—74.
Malchodi, Robert J., to United States of America, Army. Self-energizing clutch. 3,161,272, 12–15–64, Cl. 192—74.
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Malcolm, Vincent T., to Chapman Division-Crane Co. Process for nitriding steels of the low, medium and high alloy types by first removing the passive oxide surface film. 3,140,205, 7–7–64, Cl. 148—16.6.
Malden, Ancile E., to International Business Machines Corp. Parity circuit. 3,122,630, 2–25–64, Cl. 235—146.1.
Malec, Robert E., to Standard Oil Co. Motor fuel. 3,139,330, 6–30–64, Cl. 44—63.
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Malenick, John, and R. P. Riche, to General Motors Corp. Capacitive pickoff for displacement signal generator. 3,121,839, 2–18–64, Cl. 323—75.
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Maley, Gerald A., to International Business Machines Corp. Full adder. 3,138,703, 6–23–64, Cl. 235—175.
Maley, Gerald A., to International Business Machines Corp. Double trigger composed of binary logic elements. 3,154,-744, 10–27–64, Cl. 328—92.
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Malina, Frank J. Lighted, animated and everchanging picture arrangement. 3,160,975, 12–15–64, Cl. 40—132.
Malina, Marshall A., to Velsicol Chemical Corp. Method and apparatus for the continuous measurement of freezing points. 3,150,515, 9–29–64, Cl. 73—17.
Malinowski, Chester A., to Lindberg Engineering Co. Electric heating furnace. 3,134,836, 5–26–64, Cl. 13—25.
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Malischewski, Bernard, to Varta Aktiengesellschaft. Manufacture of microporous plastic separators for storage batteries. 3,123,654, 3–3–64, Cl. 264—126.
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Malkoff, Hyman, D. E. Kramer, and O. J. Nussbaum, to Kramer Trenton Co. Vapor compression air conditioning system or apparatus and method of operating the same. 3,139,735, 7–7–64, Cl. 62—173.
Malkowski, Leonard, to Anocut Engineering Co. Electrolytic cavity sinking apparatus. 3,130,140, 4–21–64, Cl. 204—224.
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Malley, Thomas J., and H. D. Schindler, to American Cyanamid Co. Process for preparing high density fluid alumina base catalyst material. 3,124,418. 3–10–64, Cl. 23—143.
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Mallory, Arnie M., Jr. Structural truss components or the like. 3,152,671, 10–13–64, Cl. 189—37.
Mallory, Edwin E., and A. Cantarutti, to National Rubber Machinery Co. Ply stitching device. 3,125,481, 3–17–64, Cl. 156—408.
Mallory, Edwin E., J. W. Brundage, and G. N. Murphy, to National Rubber Machinery Co. Tire curing press. 3,153,-263, 10–20–64, Cl. 18—17.
Mallory, Harvey E., to Great Western Drilling Co. Method of drilling a well through a subsurface formation employing an oil-in-water emulsion drilling fluid. 3,150,085, 9–22–64. Cl. 252—8.5.
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Malmstrom, Homer E., and K. C. Martiny, to Kimberly-Clark Corp. Papermaking drier drum. 3,118,743, 1–21–64, Cl. 34—110.
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Malone, Erle W., to Boeing Airplane Co. Mechanical acceleration retarder. 3,125,885, 3–24–64, Cl. 73—517.
Malone, Harold H. Time card blotter. 3,116,941, 1–7–64, Cl. 282—23.
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Maloney, Bernard, to Amsted Industries Inc. Brake rotor. 3,120,882, 2–11–64, Cl. 188—218.
Maloney, Bernard, R. G. Altherr, and R. D. Blew, to American Steel Foundries. Liquid cooled disk brake arrangement. 3,121,477, 2–18–64, Cl. 188—72.
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Maloney, James E. Insulated conduit system. 3,144,050, 8–11–64, Cl. 138—106.
Maloney, James E., and W. H. Ross, Jr., to Detrex Chemical Industries, Inc. Method of pretreating and phosphatizing a metal surface for siccative coatings. 3,118,-793, 1–21–64, Cl. 148—6.15.
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Maloof, Samuel R., to Avco Corp. Refractory composite rocket nozzle and method of making same. 3,145,529, 8–25–64, Cl. 60—35.6.
Maloon, Fred V. Manhole shield. 3,142,234, 7–28–64, Cl. 94—38.
Malott, Raymond A., to Shell Oil Co. Underwater well drilling method and apparatus. 3,163,238, 12–29–64, Cl. 175—5.
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Maly, George P., to Union Oil Co. of California. Joint adhesives. 3,146,142, 8–25–64, Cl. 156—91.
Malz, Hugo, to Farbenfabriken Bayer Aktiengesellschaft. Amido-phosphazides. 3,132,128, 5–5–64, Cl. 260—140.
Malz, Hugo, O. Bayer, H. Freytag, and E. Kühle, to Farbenfabriken Bayer Aktiengesellschaft. Azo phosphorus compounds. 3,135,735, 6–2–64, Cl. 260—192.
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Mancy, Denise I., L. Ninet, and J. Preud'homme, to Rhone-Poulenc S.A. Process for the production of pristinamycin. 3,154,475, 10–27–64, Cl. 195—80.
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Mandelbaum, Robert, and F. G. Weis, to Union Tank Car Co. Duplex liquid handling apparatus having improved electrode-type control system. 3,155,049, 11–3–64, Cl. 103—241.
Mandelko, Melvin A., to Super-Draulic Mfg. Co. Jack device. 3,130,956, 4–28–64, Cl. 254—2.
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Mandoli, Harry A., and R. J. Rorden, to Varian Associates. Voltage doubling power supply. 3,118,103, 1–14–64, Cl. 321—15.
Mandroian, Harold, to Spacelabs, Inc. Turbine driven air bearing dental handpiece. 3,128,988, 4–14–64, Cl. 253—2.
Mandy, Gaylord G., and R. E. Gietl. Portable piano. 3,146,658, 9–1–64, Cl. 84—177.
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Mandy, Robert R., to The Delman Co. Windshield clearing system, 3,131,411, 5–5–64, Cl. 15—250.02.
Mandy, Robert R., to The Delman Co. Windshield cleaner control. 3,133,302, 5–19–64, Cl. 15—250.02.
Mandy, Robert R., to The Delman Co. Windshield washer and wiper combination. 3,137,881, 6–23–64, Cl. 15—250.02.
Mandy, Robert R., and E. E. Lovell, to The Delman Co. Fluid responsive switch actuating assembly. 3,116,505, 1–7–64, Cl. 15—250.02.
Manea, Sebastian. Game. 3,121,566, 2–18–64, Cl. 273—131.
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Maneri, Remo R., to Dow Corning Corp. Silicone elastomers heat-stabilized with heavy metal oxides. 3,137,670, 6–16–64, Cl. 260—37.
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Manificat, Marcel J. G., to Nord-Aviation Societe Nationale de Constructions Aeronautiques. Captive flying platform unit. 3,148,847, 9–15–64, Cl. 244—17.17.
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Manke, Elmer W. High pressure centrifugal pump. 3,129,670, 4–21–64, Cl. 103—223.
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Mankowich, Abraham, to United States of America, Army. Method of improving the storage properties of alkali detergent compositions. 3,154,497, 10–27–64, Cl. 252—135.
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Manley, Inc. : *See*—
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Manley, John A., to Nalco Chemical Co. Process of improving inorganic filler retention in paper by addition of ethylene oxide homopolymer. 3,141,815, 7–21–64, Cl. 162—164.

Manley, John A., to Nalco Chemical Co. Method of improving operational efficiency of white water recovery systems. 3,141,816, 7–21–64, Cl. 162—190.

Manley, John C., to Corning Glass Works. Apparatus for feeding powder. 3,149,759, 9–22–64, Cl. 222—193.

Manly, Donald G., J. P. O'Halloran, and F. J. Rice, Jr., to The Quaker Oats Co. Production of piperidine and substituted piperidines from tetrahydrofurfuryl alcohol. 3,163,652, 12–29–64, Cl. 260—293.2.

Mann, Alfred E., M. B. Dubey, M. Wolf, E. L. Ralph, R. L. Oliver, and S. Shuster, to Spectrolab, a division of Textron Electronics, Inc. Solar cell system. Re. 25,647, 9–22–64, Cl. 136—89.

Mann, Charles J. Chuck construction. 3,157,408, 11–17–64, Cl. 279—106.

Mann, David J., and M. S. Cohen, to Thiokol Chemical Corp. Preparation of monoalkoxy decaboranes. 3,160,652, 12–8–64, Cl. 260—462.

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Mann, Edward W., to Geophysics Corp. of America. Measuring device. 3,130,345, 4–21–64, Cl. 315—19.

Mann, Edwin F. Blow game sighting apparatus. 3,149,622, 9–22–64, Cl. 124—12.

Mann, Emmett H., and R. J. Carr, to Wire Rope Corp. of America, Inc. Method of making wire rope. 3,124,927, 3–17–64, Cl. 57—161.

Mann, Estle R., to United States of America, Atomic Energy Commission. Servo-controlled regulator for neutronic reactors. 3,136,698, 6–9–64, Cl. 176—24.

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Mann, Fred W. Corn planter. 3,134,346, 5–26–64, Cl. 111—86.

Mann, Frederick W. Automatic insecticide applicator. 3,135,241, 6–2–64, Cl. 119—157.

Mann, Friedrich H., and A. V. Miller, to General Electric Co. I.F.-controlled squelch circuit for narrow bandwidth receivers. 3,155,910, 11–3–64, Cl. 325—478.

Mann, Henry, and A. E. Ruppel, to Bell Telephone Laboratories, Inc. Random pulse distribution indicator. 3,160,740, 12–8–64, Cl. 235—92.

Mann, Herman L., to Niranium Corp. Dental coping and alloy useful in making the same. 3,121,629, 2–18–64, Cl. 75—171.

Mann, Horace T., to Space Technology Laboratories, Inc. Method for the deposition of thin film by electron bombardment. 3,132,046, 5–5–64, Cl. 117—212.

Mann, Horace T., to Space Technology Laboratories, Inc. Superconductive information handling apparatus. 3,156,902, 11–10–64, Cl. 340—173.1.

Mann, Jabez H. : *See*—
Feaster, Donavon L., and Mann. 3,117,469.

Mann, Jabez H., R. W. Herr, R. L. Pifer, and T. L. Stoner, to Bowman Instrument Corp. Automatically reversing revolution counter. 3,118,599, 1–21–64, Cl. 235—132.

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Mann, Johnny. Fishing rod holder. 3,139,252, 6–30–64, Cl. 248—40.

Mann, Joseph K., to Varian Associates. Thermionic emitter for high frequency tube apparatus. 3,125,701, 3–17–64, Cl. 315—5.

Mann, Leonard J., and R. S. Hanson, to General Motors Corp. Refrigerator with water repellant wall. 3,125,866, 3–24–64, Cl. 62—272.

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Mann, Robert L., to Continental Oil Co. Methods and compositions for well completion. 3,146,828, 9–1–64, Cl. 166—12.

Mann, Robert L., to Continental Oil Co. Method and composition for well completion. 3,146,829, 9–1–64, Cl. 166—12.

Mann, Robert W., and E. R. Lindsay, Jr., to Chemical Flow Control, Inc. Reciprocating pump. 3,119,280, 1–28–64, Cl. 74—571.

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Mann, William L. Full bore deflection drilling apparatus. 3,129,776, 4–21–64, Cl. 175—76.

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Mannheimer, David, to Sperry Rand Corp. Scan modulated Doppler radar. 3,146,444, 8–25–64, Cl. 343—9.

Manning, Charles H. Combination container and cushion. 3,143,748, 8–11–64, Cl. 5—344.

Manning, Charles S. Color display system. 3,130,263, 4–21–64, Cl. 178—5.4.

Manning, Clarence F., J. Staley, and T. E. Lewis, to Reynolds Metals Co. Method for producing strip conductors having uniformly insulated edges. 3,128,547, 4–14–64, Cl. 29—527.

Manning, David J., and E. Bembenek, to The Standard Electric Time Co. Control circuit means for supervising fuses and wires. 3,135,871, 6–2–64, Cl. 307—64.

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Manning, Edward V. : *See*—
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Manning, Edward V., to The New York Air Brake Co. Hydraulic system and method. 3,156,229, 11–10–64, Cl. 123—179.

Manning, Edward V., and J. R. Parr, to The New York Air Brake Co. Hydraulic engine starting method. 3,130,540, 4–28–64, Cl. 60—17.

Manning, Emmett C. : *See*—
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Manning, John R. Wire hose clamp. 3,131,444, 5–5–64, Cl. 24—27.

Manning, Joseph F., and D. J. McKendry, to Interchemical Corp. New flocked articles and method of making them. 3,130,065, 4–21–64, Cl. 117—33.

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Minty, John E. 3,142,387.
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Manor, Neil D., and N. Aygun, to The National Cash Register Co. Electrostatic drive apparatus. 3,157,330, 11–17–64, Cl. 226—74.

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Mansell, Geoffrey A., to Robertshaw Controls Co. Operation and stopping mechanism for program control and the like. 3,123,976, 3–10–64, Cl. 60—60.

Mansell, Geoffrey A., to Robertshaw Controls Co. Combination discharge valve and switch assembly. 3,162,734, 12–22–64, Cl. 200—61.86.

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Mansfield, Vaughn. Coal processing oven and product recovery system. 3,146,175, 8–25–64, Cl. 202—22.
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Manshel, Jack C. Pistol holster. 3,118,580, 1–21–64, Cl. 224—2.
Manshel, Jack C. Tool for trimming cartridges. 3,137,914, 6–23–64, Cl. 29—1.32.
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Clinton, Raymond O., and Manson. 3,135,749.
Clinton, Raymond O., and Manson. 3,140,285.
Clinton, Raymond O., and Manson. 3,145,200.
Manson, Harry G., to Hansen Mfg. Co., Inc. Collector-ring assembly. 3,136,590, 6–9–64, Cl. 339—5.
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Manson, Simon V., to Curtiss-Wright Corp. Rocket nozzle cooling system. 3,151,449, 10–6–64, Cl. 60—35.6.
Manson, Walter J., to National-Standard Co. Wire collecting device. 3,138,342, 6–23–64, Cl. 242—83.
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Pasini, Claudio, and Mantegazzini. 3,155,672.
Mantel, Edward R., to General Motors Corp. Heat treatment of bearing steel to eliminate retained austenite. 3,131,097, 4–28–64, Cl. 148—125.
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Mantelet, Jean, to Societe d'Etudes & d'Exploitation Chimie & Mecanique E.C.E.M. Moulinex. Breaking up and stirring apparatus provided with deflecting blades. 3,116,771, 1–7–64, Cl. 146—68.
Mantell, Cornelius, Jr. Hiking and survival back pack. 3,144,014, 8–11–64, Cl. 126—38.
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Manteuffel, Erich W., to General Electric Co. Solid state power stage amplifier employing silicon rectifiers and half-cycle response magnetic amplifiers. Re. 25,574, 5–12–64, Cl. 323—58.
Manteuffel, Erich W., to General Electric Co. Magnetic amplifier with shunt-load and amplitude controlled output voltage. 3,129,381, 4–14–64, Cl. 323—89.
Manteuffel, Erich W., to General Electric Co. Direct current motor. 3,159,777, 12–1–64, Cl. 318—138.
Mantovanello, Giovanni, and S. Bruni, to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Suspension of anodic casings in cells for the electrolytic production of aluminum. 3,127,338, 3–31–64, Cl. 204—225.
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Salgado, Alvaro, and Manyak. 3,124,550.
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Manz, August F., to Union Carbide Corp. Electric arc working process and apparatus. 3,130,295, 4–21–64, Cl. 219—131.
Manz, August F., to Union Carbide Corp. Work-in-circuit consumable electrode arc welding. 3,141,085, 7–14–64, Cl. 219—140.
Manz, August F., to Union Carbide Corp. Gas-shielded-metal arc welding. 3,158,734, 11–24–64, Cl. 219—131.
Manzolillo, Francis D. Marine engine control. 3,147,636, 9–8–64, Cl. 74—472.
Mapel, William S., and R. D. Jenkins, to W. L. Brickson. Injection gun. 3,141,583, 7–21–64, Cl. 222—309.
Maples, Frederick M., S. P. Rhodes, and J. F. Wynn, Jr. Portable brake lock. 3,125,898, 3–24–64, Cl. 74—532.
Mapp, George W., Jr.: *See*—
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Maradyn, Edward D., to The Northern Engineering & Supply Co. Ltd. Track assembly for endless track vehicle. 3,116,956, 1–7–64, Cl. 305—11.
Maramonte, Michael D. Concrete block cubing apparatus. 3,155,243, 11–3–64, Cl. 214—6.
Marans, Nelson S., and W. D. Addy, to W. R. Grace & Co. Polyethylene modified with a vinyl compound. 3,137,674, 6–16–64, Cl. 260—45.5.
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Marbach, Bernard O. Infusion apparatus. 3,124,133, 3–10–64, Cl. 128—214.
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Marcatili, Enrique A. J., to Bell Telephone Laboratories, Inc. Microwave amplifier and oscillator utilizing negative resistance device. 3,160,826, 12–8–64, Cl. 330—61.
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Marchand, Jacques, to Marco Systems, Inc. Ski pole. 3,151,-875, 10–6–64, Cl. 280—11.37.
Marchand, Jacques, to Marco Systems, Inc. Mono ski. 3,154,312, 10–27–64, Cl. 280—11.13.
Marchand, Jean F., to North American Philips Co., Inc. Magnetic core storage with dynamic read-out. 3,131,380, 4–28–64, Cl. 340—174.
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Marchant, Francis C. I., and R. W. Jaggard, to Bristol Siddeley Engines Ltd. Controls for vertical take-off aircraft. 3,140,841, 7–14–64, Cl. 244—23.
Marchant, Henry F. Hot water heating system having a wide range temperature equalizer control. 3,144,991, 8–18–64, Cl. 237—8.
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Marchetti, Augusto, to G. Buehler. Vertical type endless conveyor. 3,131,801, 5–5–64, Cl. 198—20.
Marchioli, Giorgio, and G. Gremigni. Apparatus for shaping and compressing on a mould sheets of plastic material, particularly asbestos cement. 3,118,808, 1–21–64, Cl. 162—402.
Marchis, Carlos, 15% to T. P. Mahoney. Boring head. 3,144,792, 8–18–64, Cl. 77—58.
Marchman, William A., to Moore Business Forms, Inc. Zig-zag typewriter form stands. 3,134,474, 5–26–64, Cl. 197—133.
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Marcy, Gerald P., to Worthington Corp. Inlet structure for gas compressors. 3,140,043, 7–7–64, Cl. 230—207.
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Margiloff, Irwin B. Apparatus for the production of fresh water. 3,116,611, 1–7–64, Cl. 62—123.
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Marietta, Michael T. Two part detachable liner for safety helmets. 3,153,792, 10–27–64, Cl. 2—3.
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Marietta, Walter E., to The New York Air Brake Co. Engine. 3,131,643, 5–5–64, Cl. 103—126.
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Marino, Joseph, T. P. Nowalk, and W. R. Schaefer, to Westinghouse Electric Corp. Hermetically sealed semiconductor devices. 3,155,885, 11–3–64, Cl. 317—234.
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Markoff-Moghadam, Leo. Safety clip. 3,148,425, 9–15–64, Cl. 24—161.
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Marquis, Duane E., and J. H. Province, to Phillips Petroleum Co. Dies for pipe and tubing tongs. 3,124,023, 3–10–64, Cl. 81—186.
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Marquis, Edgar E. and J. A. 3,127,230.
Marquis, John F., to Furnas Electric Co. Bi-metallic overload relay having snap switch toggle action. 3,152,235, 10–6–64, Cl. 200—122.
Marquiss, Robert W., to Monsanto Co. Method and apparatus for forming indicia on articles. 3,159,100, 12–1–64, Cl. 101—40.
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Marr, Russell G., to Marmac Products Inc. Push-pull cable construction. 3,135,131, 6–2–64, Cl. 74—501.
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Marrian, Denis H., and E. A. Evans, to United Kingdom Atomic Energy Authority. Tritiated-2-methyl-napthaquinol-(1,4)diphosphoric acids. 3,157,684, 11–17–64, Cl. 260—461.
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Marrs, Ralph E., to International Business Machines Corp. Resilient recording disk. 3,155,977, 11–3–64, Cl. 346—74.
Marrs, Roscoe E., to General Electric Co. Plural motor drive for rolling mill winding reel. 3,132,293, 5–5–64, Cl. 318—46.
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Marsch, Robert W., and F. H. Deckman, to Quartz Mosaic, Inc. Tile assembly. 3,125,831, 3–24–64, Cl. 50—268.
Marschak, Howard J. Support for a stand and the like. 3,141,557, 7–21–64, Cl. 211—177.
Marschall, Franz, H. B. Freyermuth, and W. W. Williams, to General Aniline & Film Corp. Brightening agents. 3,157,644, 11–17–64, Cl. 260—240.
Marsden, George B. Chuck arrangement. 3,123,371, 3–3–64, Cl. 279—110.
Marsee, Fred J., and N. M. Romeo, to Holley Carburetor Co. Float controlled fuel bowl. 3,153,422, 10–20–64, Cl. 137—434.
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Marsh, Byron E., E. Jungermann, and C. E. Tippett, to Armour and Co. Composition for treating materials. 3,147,244, 9–1–64, Cl. 252—136.
Marsh, Charles W. Surgical instrument for conization of the cervix. 3,147,749, 9–8–64, Cl. 128—2.
Marsh, David M., to Huntley, Ltd. Bottle covering. 3,136,-438, 6–9–64, Cl. 215—12.
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Marsh, Glenn A., and R. L. Littler, to The Pure Oil Co. Method of inhibiting corrosion in ferrous metal containers exposed to the atmosphere. 3,150,086, 9–22–64, Cl. 252—8.55.
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Marsh, Julius E. Process for drying lumber. 3,131,034, 4–28–64, Cl. 34—30.
Marsh, Lyle. Fluid dispenser. 3,122,272, 2–25–64, Cl. 222—26.
Marsh, Robert J., to American Home Products Corp. Aqueous PVP solution in two phase aerosol hair spray. 3,148,-127, 9–8–64, Cl. 167—87.1.
Marsh, Sam, to Marsh Associates. Inedible rendering process. 3,158,634, 11–24–64, Cl. 260—412.6.
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Marsh, Walter G. Sheet metal brake. 3,161,223, 12-15–64, Cl. 153—16.
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Marshall, Andrew C., to Hexcel Products Inc. Energy absorber. 3,130,819, 4–28–64, Cl. 188—1.
Marshall, Calvert D. Tool for removing keys on poppet valves. 3,138,855, 6–30–64, Cl. 29—249.
Marshall, Charles E., to Potter Instrument Co., Inc. Electromagnetic pinch roller actuator. 3,125,271, 3–17–64, Cl. 226—176.
Marshall, Claire B., to Chemetron Corp. Apparatus and method for feeding fabricated welding wire. 3,119,042, 1–21–64, Cl. 314—68.
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Marshall, Donald E. Method and apparatus for intensified refining of deformable solids. 3,153,688, 10–20–64, Cl. 264—349.
Marshall, Douglas W., to Norton Co. Alumina abrasive. 3,141,747, 7–21–64, Cl. 51—309.
Marshall, Edward E., and J. E. Ullman, to Huntingdon Industries Inc. Apparatus for spraying adhesive on cartons. 3,152,923, 10–13–64, Cl. 118—2.
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Marshall, George S.: *See*—
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Marshall, Hamilton W.: *See*—
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Marshall, Harold E. Dog leash with automatic tension and rewind. 3,123,052, 3–3–64, Cl. 119—124.
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Marshall, John M., to United States of America, Navy. Piezoelectric time-of-arrival gage. 3,146,360, 8–25–64, Cl. 310—8.7.
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Marshall, Leonard J., to Combustion Engineering, Inc. Steam generation. 3,119,378, 1–28–64, Cl. 122—4.
Marshall, Leslie H. High temperature furnace. 3,155,759, 11–3–64, Cl. 13—25.
Marshall, Louis. Hand luggage and lining construction therefor. 3,126,077, 3–24–64, Cl. 190—53.
Marshall, Mervin D., and R. F. Bratton, to Callery Chemical Co. Process for making ozonides by reacting ozone with superoxide. 3,139,327, 6–30–64, Cl. 23—184.
Marshall, Preston F., to The Kendall Co. Textile fabric. 3,154,111, 10–27–64, Cl. 139—420.
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Marshall, Vincent, to Eli Lilly and Co. Canine distemper vaccine. 3,138,531, 6–23–64, Cl. 167—78.
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Marshall, William E., and A. P. Kerschbaum, to Armco Steel Corp. Methods of reducing fine iron ore in a fluidized-solids reactor. 3,126,276, 3–24–64, Cl. 75—26.
Marshall, William J.: *See*—
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Marshall, William L.: *See*—
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Marsteller, James H., to Universal Natural Resources, Inc. Method and means for melting and conveying metal. 3,159,704, 12–1–64, Cl. 266—33.
Marsteller, Kenneth E., to Philco Corp. Air conditioning apparatus. 3,134,319, 5–26–64, Cl. 98—94.
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Muller, Georges, Martel, and Bardoneschi. 3,128,270.
Martel, Robert W., and H. G. Stroble, to The National Cash Register Co. Ink coating for pressure sensitive transfer record sheet. 3,129,103, 4–14–64, Cl. 106—20.
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Martelli, Homer A.: *See*—
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Marten, Jerome H., and A. Warshaw, to Chemical Construction Corp. Production of low biuret, non-caking urea product. 3,151,156, 9–29–64, Cl. 260—555.
Martens, Alexander E., to Bausch & Lomb Inc. Interrupter circuit. 3,145,347, 8–18–64, Cl. 330—51.
Martens, Charles H., to United States of America, Army. High energy forming process. 3,156,039, 11–10–64, Cl. 29—421.
Martens, Gunther, and G. Wolf, to Kienzle Apparate G.m.b.H. Magnetic core matrix accumulator. 3,118,056, 1–14–64, Cl. 235—160.
Martens, Gunter, to Kienzle Apparate G.m.b.H. Electronic storage and calculating arrangement. 3,127,507, 3–31–64, Cl. 235—173.
Martens, Herbert A., to The Cross Co. Tool detector. 3,133,-456, 5–19–64, Cl. 77—5.
Martens, Herbert A., to The Cross Co. Multiple tool condition detecting system. 3,133,457, 5–19–64, Cl. 77—5.
Martens, Jack E., to The Anderson Co. Adjustable holding mechanism. 3,127,783, 4–7–64, Cl. 74—424.8.
Martens, Jack E., to The Anderson Co. Position-retaining device. 3,127,788, 4–7–64, Cl. 74—586.
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Martens, Jean V., to International Standard Electric Corp. Electrical signalling system. 3,140,358, 7–7–64, Cl. 179—90.
Martens, Jean V., A. L. M. Fettweis, and K. L. Daems, to International Standard Electric Corp. Impedance matched hybrid network. 3,143,715, 8–4–64, Cl. 333—8.

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Martenson, Earl D.: *See*—
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Marti, Frederic, and G. Braunschweig. Speed governor for miniature electric motor. 3,121,811, 2–18–64, Cl. 310—48.
Marti, Walter, to J. Wyssen. Hoisting unit. 3,158,231, 11–24–64, Cl. 188—90.
Marticorena, Gaston. Snap-lock device for interchanging jewelry. 3,133,331, 5–19–64, Cl. 24—230.
Martin, Albert E., to Sir Howard Grubb Parsons & Co. Ltd. Means for analysing combustion products and varying air fuel ratio. 3,123,295, 3–3–64, Cl. 236—15.
Martin, Albert E., and J. Shields, to Sir Howard Grubb Parsons & Co. Ltd. Apparatus for the analysis of substances by absorption of radiation. 3,137,757, 6–16–64, Cl. 88—14.
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Martin, Alfred D., and O. C. Wells, to Ericsson Telephones Ltd. Plural path magnetostrictive pulse delay line having separation and recombination of the pulse train. 3,156,896, 11–10–64, Cl. 340—167.
Martin, Alfred D., and J. Dawson, to Ericsson Telephones Ltd. Testing and control system for supervisory circuits in electronic telephone exchanges. 3,161,732, 12–15–64, Cl. 179—175.2.
Martin, Andrew M. Animal trap. 3,161,984, 12–22–64, Cl. 43—85.
Martin, Arthur F., to Hercules Powder Co. Apparatus for producing controllable slow neutron chain reaction. 3,154,473, 10–27–64, Cl. 176—37.
Martin, Arthur L. Device for taking clippings from magazines or the like. 3,160,954, 12–15–64, Cl. 30—294.
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Martin, Bruce E., to E. I. du Pont de Nemours and Co. Process for treating polypropylene fibers. 3,152,380, 10–13–64, Cl. 28—72.
Martin, Carlos C., to Industrial Nucleonics Corp. Control system for cigarette making machine. 3,130,733, 4–28–64, Cl. 131—21.
Martin, Carrie L. Foundation garment. 3,149,634, 9–22–64, Cl. 128—441.
Martin, Cecil, to General Electric Co. Release mechanism for automatic molding machine. 3,156,008, 11–10–64, Cl. 18—2.
Martin, Charles F., 25% to W. J. Cooper. Liquid mixing device. 3,147,957, 9–8–64, Cl. 259—96.
Martin, Claude R. M., to Compagnie des Machines Bull (Societe Anonyme). High-speed printing apparatus. 3,133,497, 5–19–64, Cl. 101—93.
Martin, David E. Tape cutter. 3,159,322, 12–1–64, Cl. 225—56.
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Martin, Donald F.: *See*—
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Martin, Donald W., J. S. Warwick, and R. F. Ubelhoer, to Sperry Rand Corp. Obstacle type switch detent. 3,126,758, 3–31–64, Cl. 74—565.
Martin, Douglas H., and P. S. Nix, Jr., to The M. W. Kellogg Co. Apparatus for stripping contaminated catalytic material. 3,142,544, 7–28–64, Cl. 23—288.
Martin, Earl C.: *See*—
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Martin, Edna K. Heel guard. 3,153,289, 10–20–64, Cl. 36—72.
Martin, Edward. Interconnecting clamp for tool and cultivator bar. 3,157,415, 11–17–64, Cl. 287—54.
Martin, Elmer W. Demountable building. 3,119,153, 1–28–64, Cl. 20—2.
Martin, Elmore L., to E. I. du Pont de Nemours and Co. Process for the preparation of tetracyanoethylene. 3,118,929, 1–21–64, Cl. 260—465.8.
Martin, Elmore L., to E. I. du Pont de Nemours and Co. 1-halo-1,2,3,3-tetra(negatively substituted) propenes and salts thereof, and methods for preparing said compounds. 3,133,084, 5–12–64, Cl. 260—326.5.
Martin, Elmore L., to E. I. du Pont de Nemours and Co. 2-butenehexacarbonitriles and process for the preparation thereof. 3,144,477, 8–11–64, Cl. 260—465.
Martin, Elmore L., to E. I. du Pont de Nemours and Co. Disulfonylheptatriene tetracarbonitriles and their preparation. 3,150,164, 9–22–64, Cl. 260—465.

Martin, Emil L., Jr., to Collins Radio Co. Movable slug inductor tuned tank circuit having capacitor means compensating mechanical vibration. 3,135,936, 6–2–64, Cl. 334—68.
Martin, Emmet L.: *See*—
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Martin, Ernest N. Drink mixing device. 3,123,255, 3–3–64, Cl. 222—145.
Martin, Eugene C., R. C. Binning, L. M. Adams, and R. J. Lee, to Standard Oil Co. Separation process. 3,140,256, 7–7–64, Cl. 210—23.
Martin, Frank E.: *See*—
Barlow, John A., Martin, Maugham, Chapman, and Dalby. 3,137,926.
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Martin, Fred O.: *See*—
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Martin, Furman H., Jr., to The Springs Cotton Mills. Method and means of measuring and locating variations in size in a length of material during processing or handling. 3,135,054, 6–2–64, Cl. 33—129.
Martin, George: *See*—
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Martin, George E.: *See*—
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Martin, George E., to United States Steel Corp. Die-sinking press for marking plates while in motion. 3,120,175, 2–4–64, Cl. 101—4.
Martin, George E., to United States of America, Air Force. Height computer. 3,143,735, 8–4–64, Cl. 343—10.
Martin, George J., to Parker-Hannifin Corp. Fluid system and relief valve assembly therefor. 3,160,076, 12–8–64, Cl. 91—414.
Martin, George J., to Parker-Hannifin Corp. Valve assembly. 3,160,167, 12–8–64, Cl. 137—101.
Martin, George W.: *See*—
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Martin, Gregory L., to Goodyear Aerospace Corp. Apparatus for sampling, storing and summing signals. 3,142,822, 7–28–64, Cl. 340—173.
Martin, Harold B., to The Thomas & Betts Co. Polytetrafluoroethylene insulated splice connector. 3,143,595, 8–4–64, Cl. 174—84.
Martin, Harry, to Permanent Hair Waving Corp. Compositions suitable for hair curling. 3,148,126, 9–8–64, Cl. 167—87.1.
Martin, Heinz, and H. Vogt, to Siemens-Schuckertwerke Aktiengesellschaft. Semiconductor rectifier device for electric machines. 3,160,771, 12–8–64, Cl. 310—68.
Martin, Henry, to Ciba Ltd. Preparations for combating phytopathogenic microorganisms. 3,151,023, 9–29–64, Cl. 167—30.
Martin, Henry, and H. Aebi, to Ciba Ltd. Herbicidal composition containing as the active ingredient a phenyl ether urea. 3,119,682, 1–28–64, Cl. 71—2.6.
Martin, Henry, and H. Aebi, to Ciba Ltd. Method for destroying weeds. 3,134,665, 5–26–64, Cl. 71—2.6.
Martin, Henry A., to Smith & Stone Ltd. Container closure. 3,151,757, 10–6–64, Cl. 215—41.
Martin, Henry E., to United Aircraft Corp. Speed responsive control system. 3,119,055, 1–21–64, Cl. 318—452.
Martin, Hiram V. Extensible draw bar. 3,158,387, 11–24–64, Cl. 280—478.
Martin, Homer Z., to Esso Research and Engineering Co. Cyclic adsorption process. 3,149,934, 9–22–64. Cl. 55—58.
Martin, Howard F. Rocking crib or cradle. 3,129,440, 4–21–64, Cl. 5—109.
Martin, Howard F. Combination safety socket and fuse box. 3,163,728, 12–29–64, Cl. 200—50.
Martin, Howard L., to Sperry Rand Corp. Preparation of barretters. 3,157,587, 11–17–64, Cl. 204—228.
Martin, Hubert, B. E. Deal, and L. Swanson, to Kaiser Aluminum and Chemical Corp. Method of forming a composite aluminum article. 3,153,278, 10–20–64, Cl. 29—424.
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Martin, James. Ejection of one body from another. 3,124,324, 3–10–64, Cl. 244—122.
Martin, James. Selectively operable line cutting device. 3,142,219, 7–28–64, Cl. 83—639.
Martin, James. Vehicle ejection seats. 3,152,781, 10–13–64, Cl. 244—122.
Martin, James. Harness for airmen. 3,159,241, 12–1–64, Cl. 182—6.
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Elam, Edward U., and Martin. 3,161,674.
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Martin, James C., to Eastman Kodak Co. α,α-dialkyl-β-propiolactones stabilized with trinitrophenols. 3,117,980, 1–14–64, Cl. 260—343.9.
Martin, James C., to Eastman Kodak Co. Preparation of tetraalkylallenes. 3,131,234, 4–28–64, Cl. 260—681.

Martin, James C., to Eastman Kodak Co. Preparation of tertiaryamino unsaturated ketones. 3,141,880, 7–21–64, Cl. 260—247.7.
Martin, James C., to Eastman Kodak Co. 1,3-cyclobutanediisocyanates. 3,161,665, 12–15–64, Cl. 260—453.
Martin, James C., to Eastman Kodak Co. Cyclobutane derivatives containing aromatic amine or imine groups. 3,161,681, 12–15–64, Cl. 260—566.
Martin, James C., and E. U. Elam, to Eastman Kodak Co. 3-amino-2,2,4,4-tetraalkylcyclobutanols. 3,125,569, 3–17–64, Cl. 260—563.
Martin, James S., to Bunn Capitol Co. Coffee making machine. 3,149,556, 9–22–64, Cl. 99—291.
Martin, James S. Row marker. 3,158,204, 11–24–64, Cl. 172—126.
Martin, James W., to Oil Recovery Corp. Recovery of uranium by carbonated water and surface action agents and wetting agents. 3,130,960, 4–28–64, Cl. 262—3.
Martin, Jean-Claude: *See*—
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Martin, Jerome L.: *See*—
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Shurter, Robert A., Jr., and Martin. 3,117,835.
Martin, Jerome L., to Commercial Solvents Corp. Water-soluble combination of normally water-insoluble zinc bacitracin with anhydrous citric acid. 3,145,141, 8–18–64, Cl. 167—65.
Martin, Jesse E., and A. T. Ferguson. Liquid soil conditioner and the method for applying said composition to the soil. 3,140,938, 7–14–64, Cl. 71—1.
Martin, John. Machine for fabricating seamless high optical quality glass articles. 3,142,552, 7–28–64, Cl. 65—229.
Martin, John E., to Marmac Chemical Corp. Apparatus for treating crude oil emulsions within a tank. 3,125,537, 3–17–64, Cl. 252—359.
Martin, John J., to Highway Trailer Industries, Inc. Folding king pin. 3,135,528, 6–2–64, Cl. 280—433.
Martin, John J., to Highway Trailer Industries, Inc. Equalizing bogie structure. 3,154,319, 10–27–64, Cl. 280—104.5.
Martin, John L., to Herco Products, Inc. Strings for musical instruments. 3,130,626, 4–28–64, Cl. 84—297.
Martin, John R. Indicating device. 3,129,588, 4–21–64, Cl. 73—362.
Martin, Joseph A., Jr., and A. F. Paddock, to Cook Electric Co. Loading coil unit. 3,134,854, 5–26–64, Cl. 178—46.
Martin, Joseph E. Heat treating furnaces. 3,144,245, 8–11–64, Cl. 263—34.
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Martin, Perry S., to Shenandoah Equipment Co. Automatic stock watering fountain. 3,133,524, 5–19–64, Cl. 119—78.
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Martin, Ralph E., to Clary Corp. Collating machine. 3,147,969, 9–8–64, Cl. 270—52.
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Martin, William A., to Chicago Lock Co. Servicing tool for barrel-type locks. 3,149,487, 9–22–64, Cl. 70—394.
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Martinez, Louis, to Pantronic, Inc. Magnetic tone generator for musical instruments. 3,161,713, 12–15–64, Cl. 84—1.01.
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Mason, James C. Well bridging tool. 3,130,787, 4–28–64, Cl. 166—187.
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Mason, Joseph C., Jr., to Sun Oil Co. Production of naphthalene and benzene. 3,150,196, 9–22–64, Cl. 260—672.
Mason, Joseph C., Jr., to Sun Oil Co. Preparation of naphthalene and dimethylnaphthalenes. 3,153,675, 10–20–64, Cl. 260—668.
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Mason, Paul B., and A. J. Sable, to Polaroid Corp. Photographic document copying apparatus. 3,140,646, 7–14–64, Cl. 95—75.
Mason, Paul B., L. Rubenstein, and A. J. Sable, to Polaroid Corp. Photographic apparatus. 3,143,941, 8–11–64, Cl. 95—11.
Mason, Richard C. Shock absorber for pumping equipment. 3,156,459, 11–10–64, Cl. 267—70.
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Mason, Warren P., to Bell Telephone Laboratories, Inc. Precision frequency piezoelectric crystals. 3,122,662, 2–25–64, Cl. 310—9.5.
Mason, Warren P., to Bell Telephone Laboratories, Inc. Pulse group generator producing time spaced output pulses in dependence on spatial distribution of magnetic transducers along delay line. 3,129,395, 4–14–64, Cl. 333—30.
Mason, Warren P., to Bell Telephone Laboratories, Inc. Methods and apparatus employing torsionally vibratory energy. 3,131,515, 5–5–64, Cl. 51—58.
Mason, Warren P., to Bell Telephone Laboratories, Inc. Single crystal quartz filter elements, oscillators and transducers. 3,143,672, 8–4–64, Cl. 310—9.5.
Mason, Warren P., to Bell Telephone Laboratories, Inc. Thermoelectric generators. 3,149,246, 9–15–64, Cl. 310—4.
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Mason, William C. Emergency fuel supply system. 3,144,-172, 8–11–64, Cl. 222—51.
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Massey, Richard P., to Bell Telephone Laboratories, Inc. Transistor converter with self starting circuit. 3,145,348, 8–18–64, Cl. 331—113.
Massey, Richard P., to Bell Telephone Laboratories, Inc. Transistor core converter with current feedback. 3,149,-291, 9–15–64, Cl. 331—113.
Massey, Richard P., and R. M. Rickert, to Bell Telephone Laboratories, Inc. Regulated voltage converter circuit. 3,134,940, 5–26–64, Cl. 321—2.
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Massoll, Stanley R., to General Motors Corp. Concealed windshield wiper mechanism. 3,121,902, 2–25–64, Cl. 15—250.17.
Massop, Anthony H. Method of cleaning and finishing drapes. 3,151,345, 10–6–64, Cl. 8—150.
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Mathews, Bernard C. Rotary scythe. 3,159,957, 12–8–64, Cl. 56—24.
Mathews, Bernard C. Rotary chopper for hay and like crops. 3,159,958, 12–8–64, Cl. 56—24.
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Mathias, Benny B., to Owens-Illinois Glass Co. Inspecting sealed containers for vacuum. 3,131,815, 5–5–64, Cl. 209—111.5.
Mathias, Benny B., to Owens-Illinois Glass Co. Forming narrow neck glass containers. 3,148,969, 9–15–64, Cl. 65—356.
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Matkovich, Vlado I., and E. Colton, to Allis-Chalmers Mfg. Co. Tetraboronsilicide (B_4Si). 3,138,468, 6–23–64, Cl. 106—55.
Matlack, Albert S., to Hercules Powder Co. Stabilization of polyolefins. 3,127,372, 3–31–64, Cl. 260—45.75.
Matlow, Sheldon L., to Hoffman Electronics Corp. Alloy-junction semiconductors and method for making the same. 3,124,493, 3–10–64, Cl. 148—178.
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Matovich, Mitchel J., Jr., to United States of America, Navy. Tape drum Geneva drive apparatus with intermittently engaged clutch. 3,136,168, 6–9–64, Cl. 74—125.5.
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Matsch, Ladislas C., to Union Carbide Corp. Thermal insulation. 3,139,206, 6–30–64, Cl. 220—9.
Matsch, Ladislas C., E. F. Yendall, W. H. Lauer, and H. Koehn, to Union Carbide Corp. Process and apparatus for purifying and separating compressed gas mixtures. 3,119,676, 1–28–64, Cl. 62—13.
Matsch, Ladislas C., D. I. J. Wang, A. M. Bekelman, and H. Cheung, to Union Carbide Corp. Process and apparatus for purifying gases by absorption. 3,121,624, 2–18–64, Cl. 55—44.
Matsch, Ladislas C., E. F. Yendall, W. H. Lauer, and H. Koehn, to Union Carbide Corp. Process and apparatus for purifying and separating compressed gas mixtures. 3,141,751, 7–21–64, Cl. 62—14.
Matsch, Ladislas C., and J. H. Beckman, to Union Carbide Corp. Vacuum panel insulation. 3,161,265, 12–15–64, Cl. 189—34.
Matson, Carl G., to Vibrator Mfg. Co. Motor-vibrator. 3,154,293, 10–27–64, Cl. 259—1.
Matson, Howard J., to Sinclair Research Inc. Lubricating composition. 3,125,531, 3–17–64, Cl. 252—54.6.
Matson, Howard J., to Sinclair Research Inc. Synthetic ester lubricant containing a polyester of chlorendic acid. 3,157,600, 11–17–64, Cl. 252—54.6.
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Matsubayashi, Kanji, and O. Fukushima, ¾ to Kurashiki Rayon Co., Ltd., and ¼ to Air Reduction Co., Inc. Process of making polyvinyl alcohol fibers exhibiting improved dyeability by incorporating therein a water insoluble polymer containing basic nitrogen. 3,137,673, 6–16–64, Cl. 260—45.5.
Matsubayashi, Kanji, and O. Fukushima, to Kurashiki Rayon Co. Ltd. Fibers and shaped articles consisting of acetalized polyvinyl alcohol and a copolymer of vinylidene cyanide and vinyl acetate and method of making same. 3,137,675, 6–16–64, Cl. 260—45.5.
Matsubayashi, Kanji, and O. Fukushima, ¾ to Kurashiki Rayon Co., Ltd., and ¼ to Air Reduction Co., Inc. Process of producing improved polyvinyl alcohol fibers. 3,155,632, 11–3–64, Cl. 260—29.6.
Matsubayashi, Kanji, and O. Fukushima, ¼ to Air Reduction Co., Inc., and ¾ to Kurashiki Rayon Co., Ltd. Production of polyvinyl alcohol having improved dyeability and compostion therefor including polymers containing basic nitrogen. 3,161,699, 12–15–64, Cl. 260—898.

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Matsukasa, Isao, and Y. Ishizaki, to Nippon Electric Co., Ltd. Moving target radar delay line filter. 3,157,875, 11–17–64, Cl. 343—7.7.
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Matsumoto, Sojin. Watertube boiler. 3,161,178, 12–15–64, Cl. 122—321.
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Matsumura, Eizo. Process for preparing vitamin B_6 and related compounds. 3,155,673, 11–3–64, Cl. 260—295.5.
Matsumura, Joji: *See*—
Iizuka, Masao, Yamamoto, Matsummura, and Yoshida. 3,147,253.
Matsumura, Koji, to Toyo Kogyo Co., Ltd. Vehicle for road and railroad. 3,134,343, 5–26–64, Cl. 105—215.
Matsumura, Tetsuya: *See*—
Okamura, Kenji, Mumata, and Matsumura. 3,161,079.
Matsunaga, Takaho, to Sanyo Electric Co., Ltd., and Yamano Electric Mfg. Co., Ltd. Combined variable resistor and switch devices. 3,161,847, 12–15–64, Cl. 338—172.
Matsushita Electric Industrial Co., Ltd.: *See*—
Hori, Takeo. 3,134,365.
Imanaka, Toshio. 3,140,432.
Sakamoto, Tatsunosuke, Inoue, Sano, and Nakahara. 3,147,689.
Matsushita Electric Works, Ltd.: *See*—
Noda, Miyoshi, and Nakajima. 3,135,657.
Matsuyama, George, to Beckman Instruments, Inc. Electrode assembly. 3,145,158, 8–18–64, Cl. 204—195.
Matsuzaki, Meiki: *See*—
Kawaguchi, Hiroshi. Okanishi, Miyaki, Ohmori, Matsuzaki, Koshiyama, and Tsukiura. 3,142,671.
Matsuzaki, Takeo, to Nippon Electric Co., Ltd. Multi-channel phase shift code transmission system. 3,163,716, 12–29–64, Cl. 178—66.
Matsuzuka, Kiyoto, J. Momozaki, and Y. Shirane, to Yawata Iron and Steel Co., Ltd. Treatment of iron ores containing nickel and chromium. 3,141,764, 7–21–64, Cl. 75—82.
Matt, Richard J., to Thompson Ramo Wooldridge Inc. Zero gravity lubrication system. 3,121,474, 2–18–64, Cl. 184—6.
Matt, Richard J., to Thompson Ramo Wooldridge Inc. Zero gravity lubricating system. 3,151,702, 10–6–64, Cl. 184—6.
Matt, Richard J., to Thompson Ramo Wooldridge Inc. Gas assisted zero gravity lubrication system. 3,152,333, 10–6–64, Cl. 184—6.
Matt, William J., Jr.: *See*—
Anania, James A. 3,128,535.
Mattano, Leonard A., to The Dow Chemical Co. Odor improvement of resin beads made through the sulfonium salt process. 3,162,608, 12–22–64, Cl. 260—2.1.
Mattatuck Mfg. Co., The: *See*—
Liebreich, Oscar P. 3,130,825.
Mattel, Inc.: *See*—
Ryan, John W. 3,147,609.
Ryan, John W. 3,153,364.
Ryan, John W. 3,163,330.
Mattens, George L. H.: *See*—
Billen, Ernest E. G., and Mattens. 3,141,894.
Matter, Gustave O. Measuring dispenser. 3,128,915, 4–14–64, Cl. 222—156.
Matter, Gustave O. Container cover retaining strip guide and removing key. 3,130,858, 4–28–64, Cl. 220—52.
Matter, Max, and R. Glatthard, to Ciba Corp. Polyoxyaminoalkyl aminofenzoates. 3,118,931, 1–21–64, Cl. 260—472.
Matter, Max, C. Vogel, and R. Bosshard, to Haco A.G. Certain 2-aryl-4-isoxazoline-3-ones and their production. 3,119,832, 1–28–64, Cl. 260—307.
Matterson, Peter D., to Doity Cranes Ltd. Gear box mountings for cranes. 3,145,663, 8–25–64, Cl. 105—136.
Matteson, Donald W., to Cosmic Voice, Inc. Binding post. 3,150,911, 9–29–64, Cl. 339—254.
Matteson, Emory F., to Shampaine Industries, Inc. Laboratory autoclaves. 3,150,935, 9–29–64, Cl. 23—290.
Matteucci, Romano: *See*—
Falcone, Luigi, and Matteucci. 3,159,596.
Matthaeus, Georg, M. Quaedvlieg, W. Theuer, G. Sinn, and W. Hagge, to Farbenfabriken Bayer Aktiengesellschaft. Process for stabilizing natural and synthetic rubber foams. 3,120,498, 2–4–64, Cl. 260—2.5.
Matthai, Louis B., to Ross-Matthai Corp. Display and storage device. 3,161,291, 12–15–64, Cl. 206—79.
Matthei, Wesley G.: *See*—
Gaertner, Wolfgang W., and Matthei. 3,132,258.
Mattheis, Harley H.: *See*—
Krieps, Frank J., and Mattheis. 3,142,404.
Matthew, Morton P. Selective bird feeder. 3,126,870, 3–31–64, Cl. 119—51.
Matthew, Morton P., to Bausch & Lomb Inc. Variable speed transmission. 3,162,058, 12–22–64, Cl. 74—354.
Matthews, Clifford N., to Diamond Alkali Co. Chemical composition and method. 3,117,983, 1–14–64, Cl. 260—429.
Matthews, Clinton A. Hospital gown. 3,144,659, 8–18–64, Cl. 2—83.
Matthews, Donald K.: *See*—
Funk, Charles R., and Matthews. 3,159,887.
Matthews, Edward R. Adjustable camera supporting bracket device. 3,146,984, 9–1–64, Cl. 248—122.
Matthews, Eric J., to Babcock & Wilcox Ltd. Fluid heater cleaners. 3,157,903, 11–24–64, Cl. 15—317.
Matthews, Florence M., and P. K. Shumpert, to Lockheed Aircraft Corp. Fluid flow directing arrangement and method of operation. 3,147,773, 9–8–64, Cl. 137—637.
Matthews, George A., to Ericsson Telephones Ltd. Magnetic core memory matrices. 3,136,980, 6–9–64, Cl. 340—172.5.
Matthews, George T., to Western Electric Co., Inc. Gage for determining size and angle of countersink. 3,116,560, 1–7–64, Cl. 33—174.
Matthews, Herbert, to Bell Telephone Laboratories, Inc. Isolator having magnetically controlled acoustogyric material coupling elastically dichroic input and output polarizing elements. 3,121,849, 2–18–64, Cl. 333—24.2.
Matthews, Jas. H., & Co.: *See*—
Ayers, John S. 3,125,949.
Ayers, John S. 3,125,950.
Ayers, John S. 3,144,824.
Ayers, John S. 3,146,699.
Tweddell, James C. 3,142,936.
Matthews, John W. Adjustable indicator dial head for cash registers. 3,117,718, 1–14–64, Cl. 235—23.
Matthews, Kenneth V., to Beckman Instruments, Inc. Programmed slit control for analyzers. 3,123,660, 3–3–64, Cl. 88—14.
Matthews, Lyle E. Self-sustaining momentum motor. 3,129,559, 4–21–64, Cl. 60—1.
Matthews, Richard A., to Samuel Moore & Co. Composite tubing. 3,116,760, 1–7–64, Cl. 138—125.
Matthews, Richard J.: *See*—
Collins, Robert J., and Matthews. 3,161,567.
Matthews, Richard R. Self-tapping flush insert. 3,117,486, 1–14–64, Cl. 85—47.
Matthews, Richard R. Nut anchor. 3,117,610, 1–14–64, Cl. 151—41.71.
Matthews, Richard R. Clinch nut having adjacent frustoconical surfaces adapted to be secured in a sheet metal member. 3,117,611, 1–14–64, Cl. 151—41.73.
Matthews, Robert, to Decca Ltd. Tracking radar. 3,120,660, 2–4–64, Cl. 343—11.
Matthews, Robert, and R. T. A. Howell, to Decca Ltd. Radar-controlled guidance system. 3,155,968, 11–3–64, Cl. 343—7.
Matthews, Robert W.: *See*—
Keene, William A., and Matthews. 3,135,078.
Matthews, Russell B., to Penn Controls, Inc. Fuel control and ignition system. 3,151,661, 10–6–64, Cl. 158—124.
Matthews, Russell E.: *See*—
Foerster, George S., and Matthews. 3,148,952.
Matthews, Russell R., and J. L. Hubbard, to Nohasco Industries, Inc. One-shot modified Axminster weave and method of making same. 3,126,919, 3–31–64, Cl. 139—7.
Matthews, Stephen, and R. Brown, to Block & Anderson Ltd. Rotary hectographic duplicating machines. 3,158,091, 11–24–64, Cl. 101—132.5.
Matthews, Thomas A., and M. A. Hicks, to B. T. Crump Co., Inc. Buckle. 3,121,272, 2–18–64, Cl. 24—196.
Matthews, William J., to General Signal Corp. Remote controlled locomotive control system. 3,140,068, 7–7–64, Cl. 246—167.
Matthewson, Edwin H., and F. A. Howard, to Leigh Products, Inc. Sprayers of the portable manually manipulatable type (open top sprayer—renewable liner). 3,135,431, 6–2–64, Cl. 222—183.
Matthias, Bernd T., to Bell Telephone Laboratories, Inc. Molybdenum-technitium super-conducting composition and magnet. 3,157,830, 11–17–64, Cl. 317—158.
Matthias, George L.: *See*—
Weissman, Stanley N., and Matthias. 3,155,753.
Matthies, Alan A., to Controls Co. of America. Bimetal operated poppet valve. 3,121,315, 2–18–64, Cl. 62—180.
Matthies, Alan A., to Controls Co. of America. Defrost control responsive to frost accumulation. 3,134,238, 5–26–64, Cl. 62—140.
Matthiessen, Roy A. Conduit support. 3,138,360, 6–23–64, Cl. 248—72.
Matthysse, Irving F., to Burndy Corp. Connector for insulated wires. 3,156,762, 11–10–64, Cl. 174—87.
Mattia, Virginius D., Jr., to Hoffmann-La Roche Inc. Compositions for treating bronchospastic disorders comprising theophylline, ephedrine, and 7-chloro-2-methylamino-5-phenyl-3H-1,4-benzodiazepine-4-oxide. 3,138,526, 6–23–64, Cl. 167—55.
Mattie, Eugene A. Muffler for internal combustion motors. 3,135,350, 6–2–64, Cl. 181—56.
Mattimoe, Paul T., W. L. Elton, and J. J. Hofmann, to Libbey-Owens-Ford Glass Co. Apparatus for mounting rear view mirrors. 3,130,103, 4–21–64, Cl. 156—391.
Mattingly, Denis A. E., to The Klinger Mfg. Co. Ltd. Apparatus for the production of crimped or bulk yarn. 3,153,272, 10–20–64, Cl. 28—1.

Mattingly, Lawrence J., to Motorola, Inc. Gain controlled frequency modulation detector system. 3,122,708, 2–25–64, Cl. 329—169.
Mattingly, Lester J., and W. W. Happe. Boring apparatus with screw anchor. 3,148,739, 9–15–64, Cl. 173—46.
Mattingly, Virdean R. Method of repairing high pressure slush pumps. 3,145,461, 8–25–64, Cl. 29—402.
Mattingly, Ronald R.: *See*—
Stricklin, John E., and Mattingly. 3,140,903.
Mattivi, James E.: *See*—
Hawk, Gary D., and Mattivi. 3,116,864.
Mattix, Emory D., to Cities Service Oil Co. Controlled addition of gas to liquid. 3,136,325, 6–9–64, Cl. 137—3.
Mattos, Manuel A. Needle guide for baler. 3,124,060, 3–10–64, Cl. 100—23.
Mattox & Moore, Inc.: *See*—
Tyler, Robert R. 3,160,156.
Mattox, William J.: *See*—
Arey, William F., Jr., and Mattox. 3,163,594.
Mattox, William J., to Esso Research and Engineering Co. Desulfurization process. 3,128,155, 4–7–64, Cl. 23—284.
Mattox, William J., and E. M. Gladrow, to Esso Research and Engineering Co. Catalytic process. 3,121,754, 2–18–64, Cl. 260—672.
Mattox, William J., C. N. Kimberlin, Jr., and Z. W. Wilchinsky, to Esso Research and Engineering Co. Hydrocarbon desorption process. 3,160,581, 12–8–64, Cl. 208—310.
Mattson, Allen D.: *See*—
Mattson, Elvin and A. D. 3,155,169.
Mattson, Charles A., to Sunbeam Corp. Sawdust discharge for circular saw. 3,123,111, 3–3–64, Cl. 143—157.
Ottosen, Frederick O., Mattson, and Laama. 3,144,258.
Mattson, Charles A., G. W. Schleicher, and F. O. Ottosen, deceased (H. Ottosen, executrix), to Sunbeam Corp. Grass catcher for rotary lawn mower. 3,143,842, 8–11–64, Cl. 56—202.
Mattson, Clarence H., to Radio Corp. of America. Cathode-grid assembly for electron guns. 3,128,407, 4–7–64, Cl. 313—82.
Mattson, Elvin and A. D. Cultivator shield device. 3,155,169, 11–3–64, Cl. 172—512.
Mattson, Guy C., to The Dow Chemical Co. Germicidal compositions. 3,152,039, 10–6–64, Cl. 167—31.
Mattson, John R.: *See*—
Mattson, Roy D. and J. R. 3,153,397.
Mattson, John R., to Minnesota Mining and Mfg. Co. Copolymers of diallyl barbituric acids and sulfur dioxide. 3,134,756, 5–26–64, Cl. 260—79.3.
Mattson, Robert E., to Joseph Bancroft & Sons Co. Method for space dyeing yarn. 3,135,039, 6–2–64, Cl. 28—75.
Mattson, Rodney A., to General Electric Co. X-ray analyzer system with ionization detector containing nitrogen, helium and a low atomic number of quenching gas. 3,126,479, 3–24–64, Cl. 250—51.5.
Mattson, Roy D. and J. R. Outboard motor apparatus. 3,153,397, 10–20–64, Cl. 115—17.
Mattsson, Melte K. E., and R. O. Holm, to Svenska Metallverken, Aktiebolaget. Method for applying green patina to objects, preferably made from copper or copper alloys. 3,152,927, 10–13–64, Cl. 148—6.14.
Matulis, Joseph J., to Minneapolis-Honeywell Regulator Co. Electrical programming apparatus. 3,142,813, 7–28–64, Cl. 338—201.
Maturi, Rodolphe G., and C. Bellotti. Convertible boat hull. 3,129,443, 4–21–64, Cl. 9—2.
Matuschkovitz, Richard K., to Chemetron Corp. Injection of solid material into molten metal. 3,157,492, 11–17–64, Cl. 75—51.
Matuschkovitz, Richard K., and H. J. Christensen, to Chemetron Corp. Purification of metals. 3,124,450, 3–10–64, Cl. 75—57.
Matuszak, Alfred H.: *See*—
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Matuszak, Alfred H., and S. J. Metro, to Esso Research and Engineering Co. Synthetic ester lubricating oil composition. 3,126,344, 3–24–64, Cl. 252—51.5.
Matuszak, Alfred H., and S. J. Metro, to Esso Research and Engineering Co. Synthetic lubricating oil. 3,126,403, 3–24–64, Cl. 260—448.2.
Matuszak, Charles A.: *See*—
Morgan, Willard L., and Matuszak. 3,138,563.
Matyko, Rudolph W. Game projectile with handle and shiftable center of gravity. 3,163,421, 12–29–64, Cl. 273—106.
Matz, Allen S.: *See*—
Kompanek, Andrew J., and Matz. 3,122,942.
Matz, George C., to Swiss Knitting Co., Inc. Method of knitting a fabric having jersey knit and rib knit portions. 3,134,249, 5–26–64, Cl. 66—148.
Matz, Samuel A. Enzyme source. 3,139,390, 6–30–64, Cl. 195—67.
Mauch, Walter A.: *See*—
Paine, Stuart R., Johnson, Mauch, and Sells. 3,123,837.
Mauchly, John W.: *See*—
Eckert, John P., Jr., and Mauchly. 3,120,606.
Eckert, John P., Jr., and Mauchly. 3,149,285.
Mauck, Randall L.: *See*—
McKeever, James K., and Mauck. 3,118,541.
Mauck, Robert J., ½ to Dr. R. V. Fisher. Socket wrench having magnetic nut-holding means. 3,145,595, 8–25–64, Cl. 81—125.
Maud, Fred: *See*—
Bangs, John R., and Maud. 3,121,168.
Maud, Fred, and T. Horne, to The Budd Co. Radioactive source handling apparatus with shock absorbing means for holding and releasing radioactive pellets. 3,123,713, 3–3–64, Cl. 250—106.
Maud, Fred, and T. Horne, to The Budd Co. Irradiation vault. 3,132,251, 5–5–64, Cl. 250—106.
Mauderer, Ewald, to Elba-Werk, Ettlinger Baumaschinen-und Hebezeugfabrik G.m.b.H. Apparatus for distributing and weighing of goods in bulk. 3,136,434, 6–9–64, Cl. 214—100.
Mauduech, Robert, and R. Gouttebel, to Automatic Electric Laboratories, Inc. Eccles-Jordan flip-flop with closed ferrite cores in the cross coupling paths. 3,140,404, 7–7–64, Cl. 307—88.5.
Mauer, Helmut H. Aquatic vehicle. 3,158,129, 11–24–64, Cl. 115—70.
Mauer, Paul B.: *See*—
Carnall, Edward, Jr., Mauer, Parsons, and Roy. 3,131,025.
Carnall, Edward, Jr., Mauer, Parsons, and Roy. 3,131,238.
Mauge, Robert L. H.: *See*—
Nicolaux, Genevieve J. M., Gay, Matet, Mauge, Sandevoir, and Wasmer. 3,145,233.
Mauget, J. J., Co., Inc.: *See*—
Mauget, James J. 3,130,519.
Mauget, James J. Plant injection device. 3,124,904, 3–17–64, Cl. 47—57.5.
Mauget, James J., to J. J. Mauget Co., Inc. Device for injection feeding of plants. 3,130,519, 4–28–64, Cl. 47—57.5.
Maugham, George T.: *See*—
Barlow, John A., Martin, Maugham, Chapman, and Dalby. 3,137,926.
Maui Pineapple Co., Ltd.: *See*—
Bainbridge, Marvin, and Tsutsumi. 3,151,644.
Mauk, Robert R., to National Dairy Products Corp. Manufacture of cheese. 3,117,008, 1–7–64, Cl. 99—116.
Maul Bros. Inc.: *See*—
Powers, Whitney S., Jr. 3,132,933.
Maul, John A., to Addressograph-Multigraph Corp. Printing machines. 3,138,091, 6–23–64, Cl. 101—45.
Maulard, Jean: *See*—
Filloleau, Etienne, Haffemayer, and Maulard. 3,139,384.
Maulbetsch, John L.: *See*—
Burris, Donald J., and Maulbetsch. 3,161,716.
Mauler, Rudolf: *See*—
Hennessen, Walter, Mauler, and Ross. 3,143,473.
Maumee Chemical Co.: *See*—
Staiger, Roger P., Schlaudecker, and Miller. 3,123,631.
Maupas, Jean-Pierre. Roller faced suction box. 3,122,471, 2–25–64, Cl. 162—373.
Maure, Douglas R., to Telemetrics, Inc. Synchronous clock pulse generator. 3,142,802, 7–28–64, Cl. 328—55.
Maurer, Carl M., to Kartonax GmbH. Ball game. 3,118,673, 1–21–64, Cl. 273—85.
Maurer, Charly: *See*—
Erismann, Gerard, Maurer, and Rossel. 3,120,098.
Maurer, Donald D. Hair curler. 3,126,016, 3–24–64, Cl. 132—37.
Maurer, Elmer W., A. J. Stirton, and J. K. Weil, to United States of America, Agriculture. Preparation of long chain alkylsulfuric acids and salts thereof. 3,133,946, 5–19–64, Cl. 260—439.
Maurer, Gisela H., M. Brandmeier, and G. K. Lichtner., to Marg Maschinenbau G.m.b.H. Transport mixer for concrete and other building material. 3,126,197, 3–24–64, Cl. 259—161.
Maurer, John A., to Chicago Aerial Industries, Inc. Focal plane shutter mechanism. 3,133,486, 5–19–64, Cl. 95—57.
Maurer, John A., and K. R. Lappin, to The Weber Dental Mfg. Co. Syringe construction. 3,137,297, 6–16–64, Cl. 128—173.1.
Maurer, Michael H., to Chemical Construction Corp. Sulfuric acid process. 3,147,074, 9–1–64, Cl. 23—168.
Maurer, Richard E.: *See*—
Howe, Donald J., Mauer, and Henry. 3,161,509.
Maurer, Waldemar, K. Koch, and E. Eisinger, to Dynamit Nobel Aktiengesellschaft. Target practice ammunition of thermoplastic material. 3,146,712, 9–1–64, Cl. 102—41.
Maurice, Jean, to Francaise du Ferdo, Societe Anonyme. Clutch with elastic washer. 3,130,828, 4–28–64, Cl. 192—66.
Maurice, Jean, to du Ferodo Francaise, Societe Anonyme. Diaphragm clutch with de-clutching ring. 3,160,253, 12–8–64, Cl. 192—89.
Maurits, Orville C., and E. J. Krook. Articulating faceplate for a door latch. 3,142,506, 7–28–64, Cl. 292—337.
Maurushat, Joseph, Jr., and N. A. Newell, to Bell Telephone Laboratories, Inc. Automatic test equipment for multiterminal communication systems. 3,138,670, 6–23–64, Cl. 179—175.3.
Maury, Alfred D., and C. M. Lyon, to Martin Automatic Fishing Reel Co., Inc. Fishing reel. 3,152,771, 10–13–64, Cl. 242—84.2.
Maury, Robert R. Radiant energy sterilizer lamp for therapeutic hydrotherapy bath tanks. 3,134,897, 5–26–64, Cl. 250—42.
Maus, Otfrid G. H.: *See*—
Federn, Klaus, and Maus. 3,151,485.
Giers, Alfred J. A., and Maus. 3,122,926.
Giers, Alfred J. A., and Maus. 3,130,576.
Mauser, Alfons. Containers and method and apparatus for closing same. 3,163,314, 12–29–64, Cl. 220—24.

Mauser, Alfons, to Mauser Kommandit-Gesellschaft. Stackable box of synthetic material. 3,163,319, 12–29–64, Cl. 220—97.
Mauser Kommandit-Gesellschaft: *See*—
Mauser, Alfons. 3,163,319.
Mautner, Henry R.: *See*—
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Mautner, Henry R., to General Aniline & Film Corp. Coloration of polyacrylonitrile material. 3,117,831, 1–14–64, Cl. 8—55.
Mautner, Jacob E., to Allied Doll & Toy Corp. Rocking cradle. 3,156,932, 11–17–64, Cl. 5—109.
Mauvernay, Roland Y., to Laboratoire d'Analyses et de Recherches R. Y. Mauvernay. Thienyl phenyl ethyl morpholyl carbinol. 3,145,204, 8–18–64, Cl. 260—247.1.
Mauvernay, Roland Y., to R. Y. Mauvernay Laboratoire d'Analyses et de Recherches. Method of increasing potassium levels by administering potassium salts of ethylene-1:2-dicarboxylic acid. 3,154,469, 10–27–64, Cl. 167—55.
Mauvernay, Roland Y., to R. Y. Mauvernay Laboratoire d'Analyses et de Recherches. Laxative composition containing gleditsia mucilage and method of using same. 3,158,539, 11–24–64, Cl. 167—56.
Mauvernay, Roland-Yves, to Centre Europeen de Recherches Maurvernay. Method of producing anti-tussive action with 2-allyloxy-benzoic acid derivatives. 3,160,557, 12–8–64, Cl. 167—55.
Mauvernary, Roland-Yves, to Centre Europeen de Recherches Mauvernay. Method of producing anti-tussive action with 4-trifluoromethyl-benzoic acid derivatives. 3,160,558, 12–8–64, Cl. 167—55.
Maux, Raymond: *See*—
Delassus, Marcel, Maux, and Vasseur. 3,162,506.
Mauz & Pfeiffer: *See*—
Kuchar, Anton, and Heyd. 3,148,397.
Worwag, Eberhard. 3,148,400.
Maves, Walter F., to Nunn-Bush Shoe Co. Apparatus for and method of applying ornamental stitching to shoes or the like. 3,126,853, 3–31–64, Cl. 112—421.
Mavrakis, Gus H. Tackle box. 3,151,790, 10–6–64, Cl. 224—5.
Mavrovic, Ivo: *See*—
Kurpit, Stanley S., Mavrovic, and Saffian. 3,155,723.
Mavrovic, Ivo, to Chemical Construction Corp. Recovery of residual ammonia and carbon dioxide in the synthesis of urea. 3,155,722, 11–3–64, Cl. 260—555.
Mawson, Robert R.: *See*—
De Julio, James A., and Mawson. 3,160,014.
Maxant, Richard C., to H. & R. Mfg. Co. Cutting apparatus. 3,162,991, 12–29–64, Cl. 56—305.
Maxey, Alexander R., to Ampex Corp. Tape handling device. 3,143,267, 8–4–64, Cl. 226—95.
Maxey, Alexander R., to Ampex Corp. Tape transport. 3,149,207, 9–15–64, Cl. 179—100.2.
Maxey, Alexander R., to Ampex Corp. Magnetic tape apparatus. 3,159,501, 12–1–64, Cl. 179—100.2.
Maxey, Carl L., and C. H. Parker. Automatic vehicle door window closer. 3,147,034, 9–1–64, Cl. 296—44.
Maxfield, David K.: *See*—
Maxfield, John F. 3,147,344.
Maxfield, Grace K.: *See*—
Maxfield, John F. 3,147,344.
Maxfield, John F., a minor (D. K. and G. K. Maxfield, guardians), 30% to W. H. Peet. Anonymous call-checking device. 3,147,344, 9–1–64, Cl. 179—18.
Maxia, Joseph C., deceased; M. Maxia, executrix. Cleaning implements for drain pipes and sewers. 3,118,160, 1–21–64, Cl. 15—104.19.
Maxia, Marie: *See*—
Maxia, Joseph C. 3,118,160.
Maxim, George. Salt and pepper shaker. 3,122,275, 2–25–64, Cl. 222—142.4.
Maxim, John R. Surveillance aiding illumination system. 3,128,049, 4–7–64, Cl. 240—9.
Maximoff, Paul A.: *See*—
Just, Alex, Maximoff, and Krause. 3,136,591.
Olsson, Billy E., and Maximoff. 3,116,960.
Olsson, Billy E., and Maximoff. 3,141,717.
Maximoff, Paul A., and B. E. Olsson, to Malco Mfg. Co. Solder well terminal. 3,156,517, 11–10–64, Cl. 339—220.
Maxion, Emil J.: *See*—
Livingston, Daniel I., Maxion, and Mesrobian. 3,157,560.
Maxon, Glenway, Jr. Portable concrete mixing and batching plant. 3,151,849, 10–6–64, Cl. 259—161.
Maxson, Donald D., to Thiokol Chemical Corp. Rocket engine control. 3,134,222, 5–26–64, Cl. 60—35.6.
Maxson Electronics Corp.: *See*—
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Kulesza, Stanley, Voldstad, and Kahn. 3,136,253.
Potter, Norman S., and Jorysz. 3,120,578.
Tashjian, Albert L. 3,137,856.
Zemke, Joseph J., and Geremia. 3,144,529.
Maxson, John C. Sun glasses construction. 3,147,488, 9–8–64, Cl. 2—13.
Maxson Premix Burner Co., Inc.: *See*—
Yeo, Robert H., and Waid. Re. 25,626.
Maxwell, Charles E., III, to Chas. Pfizer & Co., Inc. Stabilization of iodine isomerized vitamin A esters. 3,136,794, 6–9–64, Cl. 260—410.
Maxwell, Charles T.: *See*—
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Maxwell, Donald A., and B. N. Stuckey, to Eastman Kodak Co. Anti-icing agent. 3,128,162, 4–7–64, Cl. 44—70.
Maxwell, Donald A., and B. N. Stuckey, to Eastman Kodak Co. Anti-icing agent. 3,140,162, 7–7–64, Cl. 44—66.
Maxwell, John W., C. C. Booth, and T. F. Duncan, to The Borden Co. Process for bonding cellulosic particles. 3,133,031, 5–12–64, Cl. 260—17.3.
Maxwell, Kenneth E. Anti-fire blight composition and method. 3,152,952, 10–13–64, Cl. 167—18.
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Doak, Edmond R., Maxwell, and Reichert. 3,163,571.
Maxwell, Stewart A., to Fisher & Ludlow Ltd. Lock for drawer assemblies. 3,123,419, 3–3–64, Cl. 312—333.
Maxwell, Stewart A., to Fisher & Ludlow Ltd. Coin-freed mechanism. 3,126,082, 3–24–64, Cl. 194—94.
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Ash, Anthony S. F. Creighton, and Wragg. 3,133,056.
Ash, Anthony S. F. Creighton, and Wragg. 3,133,069.
Ash, Anthony S. F., Creighton, and Wragg. 3,147,260.
Berg, Samuel S. 3,143,461.
Hemingway, Elizabeth J., Lee, Orton, and Wragg. 3,133,066.
Slack, Ronald, Squires, and Wooldridge. 3,145,214.
May, Charles W., to United States of America, Navy. Drift angle computer. 3,137,848, 6–16–64, Cl. 343—7.4.
May, Charles W., to Borg-Warner Corp. Fuel injection pump. 3,142,261, 7–28–64, Cl. 103—154.
May, Claude H., to Walker Mfg. Co. Fuel injector-igniter. 3,117,564, 1–14–64, Cl. 123—33.
May, Claude H., and K. H. Rhodes, to Walker Mfg. Co. Combustion system for internal combustion engines. 3,124,113, 3–10–64, Cl. 123—75.
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May, Ellwood H., and V. J. Kritske, to Mayline Co., Inc. Counterbalanced tiltable table. 3,131,654, 5–5–64, Cl. 108—2.
May, Everette L., to United States of America, Department of Health, Education and Welfare. New benzomorphans (methanobenzazocines) and preparation thereof. 3,138,-603, 6–23–64, Cl. 260—294.3.
May, Frank H., and J. L. Bradford, to American Potash & Chemical Corp. Production of boron trichloride by hydrochlorination of titanium diboride. 3,144,306, 8–11–64, Cl. 23—205.
May, Frank H., and H. N. Hammar, to AFN, Inc. Recovery of boron in borane polymers as boron trichloride. 3,148,-030, 9–8–64, Cl. 23—205.
May, George, and D. D. White. Apparatus for producing a stack of unexpanded honeycomb material. 3,160,544, 12–8–64, Cl. 156—387.
May, George E. Hand propelled amusement vehicle. 3,149,-857, 9–22–64, Cl. 280—247.
May, Gordon C.: *See*—
Lefebvre, Arthur H., and May. 3,151,453.
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May, Gordon C., to Rolls-Royce Ltd. Propulsion nozzles. 3,157,027, 11–17–64, Cl. 60—35.6.
May, Gordon C., and A. Stewart, to Rolls-Royce Ltd. Vertical lift gas turbine engine. 3,157,373, 11–17–64, Cl. 244—23.
May, Gordon H., to International Business Machines Corp. Interlocked open keyboards with electric restoring. 3,152,-759, 10–13–64. Cl. 235—145.
May, Harold F.: *See*—
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May, Harry: *See*—
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May, Harry C., to Westinghouse Air Brake Co. Fluid pressure brake apparatus with periodic acknowledgement type safety control. 3,136,587, 6–9–64, Cl. 303—19.
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May, Harry J., to Vogel Tool & Die Corp. Perforating apparatus for tubing. 3,125,149, 3–17–64, Cl. 153—2.
May, Harry M., and H. A. Nadler, Jr. Method of preparing a soil conditioning composition from sugar cane bagasse. 3,163,517, 12–29–64, Cl. 71—26.
May, Horace A., and G. W. Miller, to United Aircraft Corp. Oil divider. 3,129,983, 4–21–64, Cl. 308—36.1.
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May, Howard F., to General Electric Co. Multi-pressure waste heat boiler. 3,147,742, 9–8–64, Cl. 122—7.
May, Howard J., to ACF Industries, Inc. Long travel draft gear. 3,139,193, 6–30–64, Cl. 213—43.
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May, Maurice, to Anaconda Aluminum Co. Snap-in glass setting construction. 3,123,869, 3–10–64, Cl. 20—56.4.
May, Melvin M., to Computer Products Inc. Switch with plural inputs to, and plural feedback paths from, an operational amplifier. 3,140,408, 7–7–64, Cl. 307—88.5.
May, Patrick L., and R. L. Moore, to International Harvester Co. Stripper finger for bale tyer. 3,117,512, 1–14–64, Cl. 100—31.
May, Patrick L., and R. E. Beyer, to International Harvester Co. Fabricated baler needle. 3,126,815, 3–31–64, Cl. 100—24.
May, Patrick L., and J. R. Majkrzak, to International Harvester Co. Bale thrower. 3,132,736, 5–12–64, Cl. 198—127.
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May, Winston L., Jr., and J. B. Wolfe, to Johnson & Johnson. Waterproof panty. 3,150,665, 9–29–64, Cl. 128—288.
Maya, Gregorio E., to United Shoe Machinery Corp. Heels and component top lift-post units therefor. 3,138,882, 6–30–64, Cl. 36—34.
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Mayer, Alfred, to Radio Corp. of America. Method of producing gallium. 3,150,965, 9–29–64, Cl. 75—84.5.
Mayer, Alfred A., C. E. Miller, and C. O. Williams., to Olin Mathieson Chemical Corp. Metalrimmed plastic cartridge case. 3,125,924 3–24–64, Cl. 86—11.
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Mayer, Charles M., E. C. Dalenberg, and F. G. Constance, to The Tappan Co. Gas range. 3,130,719, 4–28–64, Cl. 126—37.
Mayer, David P., to Velsicol Chemical Corp. Controlling nematodes with 2-chloro-3-hydroxy-4-nitrobenzaldehyde. 3,129,136, 4–14–64, Cl. 167—30.
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Mayer, Gary L.: *See*—
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Mayer, Heinz: *See*—
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Mayer, Ivan, and R. V. Trense, to Esso Research and Engineering Co. Optimizing reducing gas production with hydrogen-containing fuels. 3,146,089, 8–25–64, Cl. 75—41.
Mayer, James F., to Standard Oil Co. Hardboard saturant compositions. 3,132,034, 5–5–64, Cl. 106—123.
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Mayer, Jiří J. Ctvrtnik, and O. Nemeček, to Spofa, Sdruzeni Podniku pro zdravotnickou vyrobu. Process for producing 1,2 - diphenyl-3,5-dioxo-4-(gamma-oxybutyl) - pyrazolidine. 3,123,616, 3–3–64, Cl. 260—310.
Mayer, Joseph E. Wringer roll for hay conditioners. 3,146,-568, 9–1–64, Cl. 56—1.
Mayer, Joseph H., and J. Levy, to Universal Oil Products Co. 3-lower-alkylthiophenothiazines and method of producing the same. 3,136,762, 6–9–64, Cl. 260—243.
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Mayer, Louis, to Owens-Illinois Glass Co. Shipping container. 3,158,307, 11–24–64, Cl. 229—14.
Mayer, Mitchell L., H. T. Brey, and H. Stein. Rotary cutlery carriers. 3,145,510, 8–25–64, Cl. 51—164.
Mayer, Nathan. Joinder for knitted fabrics and method of manufacture. 3,119,121, 1–28–64, Cl. 2—239.
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Mayes, Fred M., to Sun Oil Co. Bore hole logging apparatus with means for providing a pulse space modulated record of detected potentials. 3,141,127, 7–14–64, Cl. 324—1.
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Mayfield, Wayne W. and G. W. Flexible tractor borne planter. 3,133,599, 5–19–64, Cl. 172—448.
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Mayhew, Myron A., to National Distillers and Chemical Corp. Moving heater strip temperature control. 3,119,920, 1–28–64, Cl. 219—19.
Mayhew, Myron A., to National Distillers and Chemical Corp. Constant heat sealer. 3,119,922, 1–28–64, Cl. 219—21.
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Mayland, Bertrand J., to Girdler Corp. Removal of carbon dioxide from gaseous mixtures. 3,144,301, 8–11–64, Cl. 23—2.
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Maynard, John T., to A. O. Smith Corp. Ultrasonic vibration control of thermionic devices. 3,123,726, 3–3–64, Cl. 310—4.
Maynard, John T., to A. O. Smith Corp. Dynamoelectric machines. 3,135,885, 6–2–64, Cl. 310—87.
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Maynard, Robert W., to The Mosler Safe Co. Safe door construction. 3,139,047, 6–30–64, Cl. 109—72.
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Maynard, Wheeler D., to General Signal Corp. Data posting indicator having plural concentric disc commutator control. 3,142,053, 7–21–64, Cl. 340—324.
Maynard, Wheeler D., and K. W. Abendroth, to General Signal Corp. Impact detector. 3,145,571, 8–25–64, Cl. 73—492.
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Mayrath, Martin. Bale conveyor unloader. 3,135,376, 6–2–64, Cl. 198—185.
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Mayrath, Martin. Snap-over clamp for conveyor tubes. 3,141,642, 7–21–64, Cl. 248—74.
Mayrath, Martin. Carriage and saddle for conveyors. 3,147,-855, 9–8–64, Cl. 198—238.
Mayrath, Martin. Apparatus for anchoring the seams of lock seam tubing. 3,154,037, 10–27–64, Cl. 113—34.
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Smith, Thomas R. 3,136,402.
Smith, Thomas R. 3,136,926.
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Smith, Thomas R. 3,160,023.
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Natta, Giulio, Pino, and Mazzanti. 3,141,872.
Mazzarelli, Samuel. Staircase elevator. 3,121,476, 2–18–64, Cl. 187—12.
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McAfee, Richard J., and C. Steckle, to United States Steel Corp. Rope drive for swinging boom of a jib crane. 3,144,-136, 8–11–64, Cl. 212—66.
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McAllan, John G., and J. D. Laing, to International Standard Electric Corp. Television signal receiver terminal. 3,144,-512, 8–11–64, Cl. 178—7.3.
McAllise, Raymond J. Photoelectric control device responsive to two light sources. 3,160,757, 12–8–64, Cl. 250—209.
McAllister, Don M., ½ to R. E. Steele. Distributor having a contact blade movable in response to rotational speed. 3,148,250, 9–8–64, Cl. 200—24.
McAllister, Harry E. Telephone equipment. Re. 25,551, 4–7–64, Cl. 179—175.2.
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McAlpine, John B., to Symington Wayne Corp. Lifting device. 3,141,390, 7–21–64, Cl. 92—248.
McAnally, Carl G., to Marvel Specialty Co., Inc. Hose seam flattening device. 3,126,134, 3–24–64, Cl. 223—43.
McAndrew, Francis B.: *See*—
Suter, Hans A., and McAndrew. 3,156,671.
McAndrews, Anthony J., to General Motors Corp. Method of casting. 3,118,225, 1–21–64, Cl. 29—529.
McAnelly, John K., to Swift & Co. Method for producing a soybean protein product and the resulting product. 3,142,-571, 7–28–64, Cl. 99—14.
McAnney, William H.: *See*—
Gruodis, Algirdas J., Lange, and McAnney. 3,155,845.
McArthur, Colin S.: *See*—
Harrison, Edmund, Jr., McArthur, and Yelverton. 3,146,-780.
McArthur, Donald S.: *See*—
Heigl, John J., Wilson, and McArthur. 3,136,887.
McArthur, Gerald W.: *See*—
Hood, Paul F., and McArthur. 3,151,568.
McArthur, William, and A. Marchant, to Imperial Chemical Industries Ltd. Gasoline purification by polymerization. 3,162,599, 12–22–64, Cl. 208—255.
McAtee, Joseph P. Locking relay for gauges and the like. 3,142,005, 7–21–64, Cl. 317—154.
McAuley, Anthony, to A. B. Chance Co. Stringing block. 3,130,958, 4–28–64, Cl. 254—134.3.

McAuley, James W., to Libbey-Owens-Ford Glass Co. High frequency sonic transducers. 3,145,312, 8–18–64, Cl. 310—26.
McAuliffe, John F., and A. D. Parone, to Pratt & Whitney Co., Inc. Collet for fluted shankless tool. 3,136,561, 6–9–64, Cl. 279—9.
McAvoy, Bruce R.: *See*—
Feldman, Donald W., and McAvoy. 3,136,963.
McBain, Donald C.: *See*—
Liu, Uee J., Campbell, and McBain. 3,122,721.
McBee, Earl T., to Purdue Research Foundation. Tetrahalocyclopentadienyldiamine compounds. 3,136,764, 6–9–64, Cl. 260—247.5.
McBee, Earl T., to Purdue Research Foundation. Cyclopentadienylimines process for their production and condensation products thereof. 3,141,043, 7–14–64, Cl. 260—566.
McBrady, Joseph K. Container cleaning device. 3,159,164, 12–1–64, Cl. 134—69.
McBriar, Charles H. Fishing bobber. 3,141,256, 7–21–64, Cl. 43—43.11.
McBride, Le Roy C., to L. C. and M. B. McBride. Machine to generate and control an airstream. 3,128,036, 4–7–64, Cl. 230—116.
McBride, Mary M. Boot for iron. 3,121,965, 2–25–64, Cl. 38—97.
McBride, Margaret B.: *See*—
McBride, Le Roy C. 3,128,036.
McBride, William R., and H. W. Kruse, to United States of America, Navy. Preparation of tetraalkyltetrazenes. 3,135,800, 6–2–64, Cl. 260—583.
McBrien, Edward F., and R. A. Sommer, to The Ohio Crankshaft Co. Induction heating coil. 3,125,655, 3–17–64, Cl. 219—10.49.
McBrien, Roger W. Unitized titration apparatus. 3,145,876, 8–25–64, Cl. 222—113.
McBroome, Cecil R. Apparatus for use in construction of welded pipe systems. 3,149,422, 9–22–64, Cl. 33—189.
McBurney, Charles H.: *See*—
Richter, George A., Jr., McBurney, and Kine. 3,140,265.
McBurney, Faye M., and E. E. Moore. Fishing pole holder. 3,140,069, 7–7–64, Cl. 248—40.
McCabe, John F.: *See*—
Kaptur, Vincent D., Jr., McCabe, and Myal. 3,147,617.
McCabe, Owen J.: *See*—
Nelson, Alfred B., Greene, and McCabe. 3,128,384.
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Balogh, Roy O., and Bakula. 3,154,199.
McCabe, Thomas E.: *See*—
Camp, James B., and McCabe. 3,130,363.
McCabe, Thomas J.: *See*—
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McCafferty, Edward A., to The National Marking Machine Co. Fluorescent pigments. 3,162,642, 12–22–64, Cl. 260—304.
McCafferty, James E., to Kingsbury Machine Works, Inc. Equalizing thrust load between thrust bearings. 3,154,355, 10–27–64, Cl. 308—160.
McCaffrey, Francis, to United States of America, Navy. Gyroscope mounted cassegrain telescope with central support for secondary mirror. 3,158,676, 11–24–64, Cl. 88—32.
McCain, Cecil C., and B. L. Wright, to Western Electric Co., Inc. Article feed device. 3,128,873, 4–14–64, Cl. 198—219.
McCain, Clyde S.: *See*—
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McCaleb, Elman R., and D. E. Yadon, to The American Coleman Co. Rotatable prime mover. 3,154,162, 10–27–64, Cl. 180—6.66.
McCaleb, Stanley B.: *See*—
Bennett, John D., and McCaleb. 3,151,689.
McCall, Clarence I., to Lewis Engineering Co. Foldable leg construction. 3,155,362, 11–3–64, Cl. 248—359.
McCall, Donald O., to Basalt Rock Co., Inc. Mold for casting elongated hollow objects. 3,146,510, 9–1–64, Cl. 25—128.
McCall, Howard W., C. H. Laschley, and R. W. Zumwalt, to Texas Eastern Transmission Corp. Storage system. 3,149,472, 9–22–64, Cl. 62—55.
McCall, John T.: *See*—
Danko, Nicholas S., Shaw, and McCall. 3,129,961.
McCall, Marvin A.: *See*—
Coover, Harry W., Jr., McCall, and Guillet. 3,121,070.
McCall, Patrick P.: *See*—
Berlin, Norton H., and McCall. 3,152,981.
McCalla, Eugene D., to Electratone, Inc. Microphone amplifier. 3,132,207, 5–5–64, Cl. 179—1.
McCammon, Robert F., and J. G. Tomkinson, to Minneapolis-Honeywell Regulator Co. Photographic flash tube and reflector. 3,127,112, 3–31–64, Cl. 240—1.3.
McCandless, Ira L., and F. J. McMahon, to Blaw-Knox Co. Screed with wing attachment. 3,125,935, 3–24–64, Cl. 94—45.
McCane, Donald I.: *See*—
Harris, John F., Jr., and McCane. 3,132,123.
Harris, John F., Jr., and McCane. 3,159,609.
McCann, Arthur S.: *See*—
Hayward, Frank S., and McCann. 3,157,013.
McCann, Clyde D., and I. Steitz. Pump. 3,127,844, 4–7–64, Cl. 103—137.
McCanse, James E., to Deere & Co. Pivot pin structure. 3,135,402, 6–2–64, Cl. 214—140.
McCardell, Willard B., to Michigan Tool Co. Tooth forming method and apparatus. 3,121,352, 2–18–64, Cl. 78—45.
McCarrick, Henry J., to Texas Instruments Inc. Motion amplification switch means. 3,158,718, 11–24–64, Cl. 200—137.
McCarter, Ed R., to Jersey Production Research Co. High dynamic range seismic recording system. 3,147,459, 9–1–64, Cl. 340—15.5.
McCarter, William L., to International Dispensing Co. Drink dispenser with metering syringe and reconstituting nozzles. 3,152,728, 10–13–64. Cl. 222—129.4.
McCarthy, Earl D., and K. E. McVey. Articulating paper apparatus. 3,126,631, 3–31–64, Cl. 32—19.
McCarthy, Eugene L.: *See*—
Honerkamp, Joseph D., Scheirman, Laurence, and McCarthy. 3,116,987.
McCarthy, Horace F., and M. H. Subilia, to Avco Corp. Surgical appliance. 3,143,114, 8–4–64, Cl. 128—303.
McCarthy, John F.: *See*—
Vander Weel, Walter H., and McCarthy. 3,148,468.
McCarthy, John J. Portable laundry device. 3,122,909, 3–3–64, Cl. 68—219.
McCarthy, John M. Electric generator. 3,129,376, 4–14–64, Cl. 321—50.
McCarthy, Patrick G., and D. E. Hewitt, to William Cotton Ltd. Pattern control mechanisms. 3,141,316, 7–21–64, Cl. 66—154.
McCarthy, Paul R.: *See*—
Ambrose, Henry A., and McCarthy. 3,159,577.
Halter, Robert E., McCarthy, and McGrath. 3,160,591.
Hedenburg, John F., and McCarthy. 3,149,075.
McCarthy, Paul R., to Gulf Research & Development Co. Lubricating oil thickened to a grease with a mixture of a 1,3,5-triazine compound, finely-divided silica and an organophilic siliceous compound. 3,160,590, 12–8–64, Cl. 252—28.
McCarthy, Paul R., and C. S. Tempalski, to Gulf Research & Development Co. Lubricating oil thickened to a grease consistency with a product of an aryl isocyanate and an amine-treated silica. 3,153,631, 10–20–64, Cl. 252—28.
McCarthy, William P., and D. D. Edie, ⅓ to R. D. Mather. Trolling motor for attachment to outboard motor. 3,139,853, 7–7–64, Cl. 115—17.
McCartney, Charles. Smoke eliminator. 3,125,613, 3–17–64, Cl. 261—17.
McCartney, Duane N.: *See*—
Herrmann, Thomas R., Shaw, and McCartney. 3,154,165.
McCartney, John, to The Budd Co. Arc welding apparatus. 3,132,240, 5–5–64, Cl. 219—127.
McCartney, Robert E.: *See*—
Craig, Bryant F., and McCartney. 3,121,841.
Craig, Bryant F., and McCartney. 3,122,705.
McCarty, George W., to The Black and Decker Mfg. Co. Vacuum dust-collecting apparatus for rotating hammer-drill. 3,162,255, 12–22–64, Cl. 175—213.
McCarty, George W., A. S. Boehm, and R. H. Riley, Jr., to The Black and Decker Mfg. Co. Masonry drilling apparatus having vacuum dust-collecting system. 3,131,947, 5–5–64, Cl. 279—103.
McCarty, George W., M. I. Sheps, and L. H. Bowen III, to The Black and Decker Mfg. Co. Bench grinder. 3,144,735, 8–18–64, Cl. 51—166.
McCarty, Horace G., to Sperry Rand Corp. Mower hitch. 3,134,609, 5–26–64, Cl. 280—478.
McCarty, James P., and C. H. Curtis, to Duval Sulphur & Potash Co. Method and system for treating ore. 3,117,734, 1–14–64, Cl. 241—29.
McCarty, James P., and C. H. Curtis, to Duval Sulphur & Potash Co. Indicating and control apparatus for cone type ore crushers. 3,125,303, 3–17–64, Cl. 241—213.
McCarty, John O., and E. H. Bryant, Jr., to The Audichron Co. Temperature announcing machine. 3,161,729, 12–15–64, Cl. 179—100.2.
McCarty, Lee A., to H. S. Watson Co. Foldable load lifting apparatus. 3,138,270, 6–23–64, Cl. 214—77.
McCarty, Leslie P., to The Dow Chemical Co. Nerve electrode apparatus. 3,157,181, 11–17–64, Cl. 128—404.
McCarty, Lewis V., to General Electric Co. Flash lamp. 3,116,623, 1–7–64, Cl. 67—31.
McCarty, Richard G.: *See*—
Biberman, Lucien M., and McCarty. 3,130,310.
McCarty, Shile D., to Jersey Production Research Co. Method and apparatus for conducting offshore drilling operations. 3,145,775, 8–25–64, Cl. 166—46.
McCarty, Willard R., to Wagner Electric Corp. Snap-action drive mechanism. 3,153,188, 10–13–64, Cl. 323—43.5.
McCarvell, John H., and W. C. Carlisle. Apparatus and arrangement for intermittently producing a well and simultaneously scraping the well pipe. 3,147,808, 9–8–64, Cl. 166—70.
McCarvell, John H., and W. C. Carlisle. Control device for controlling the upper and lower limits of the pressure in a fluid flow line. 3,161,207, 12–15–64, Cl. 137—492.5.
McCaslin, Sibley: *See*—
Glasser, Harry W., and McCaslin. 3,130,833.
McCathron, Claude B., and H. C. Zeisloft, to General Motors Corp. Gas turbine fuel system. 3,121,456, 2–18–64, Cl. 158—36.4.

McCaughey, James F.: *See*—
Gasson, Edward J., and McCaughey. 3,135,795.

McCauley, Charles F., to General Motors Corp. Filament winding machine control. 3,133,236, 5–12–64, Cl. 318—19.

McCauley, Donald R., to General Signal Corp. Automatic traffic directing system for garages. 3,158,836, 11–24–64, Cl. 340—51.

McCauley, Donald R., to General Signal Corp. Detection means for improperly lubricated journals. 3,163,384, 12–29–64, Cl. 246—169.

McCauley, Edward W., and M. L. Headman, to Western Gear Corp. Radioactive torque sensing device. 3,122,639, 2–25–64, Cl. 250—83.3.

McCauley, Herbert J. Bicycle stand. 3,116,836, 1–7–64, Cl. 211—21.

McCauley, John H., and S. Gavurnik, to Burroughs Corp. Indicator tube. Re. 25,603, 6–16–64, Cl. 313—109.5.

McCauley, John H., J. R. Bethke, and C. W. Ericson, to Burroughs Corp. Indicator tubes. Re. 25,655, 10–6–64, Cl. 315—136.

McCauley, Porter T.: *See*—
Gardner, Ernest A., and McCauley. 3,133,607.

McCauley, William H., to C. F. Braun & Co. Feeder for solid particles. 3,118,575, 1–21–64, Cl. 222—349.

McCaw, Robert J.: *See*—
Ely, Paul C., Jr., and McCaw. 3,124,345.

McClain, Edward L., to Super Laundry Machinery Co. Folding machine controller. 3,154,726, 10–27–64, Cl. 317—142.

McClain, Marshall A. Dispensing device. 3,144,967, 8–18–64, Cl. 222—144.5.

McClain, Michael J., E. E. Reese, and T. E. Stark, to General Motors Corp. Windshield wiper arm. 3,131,412, 5–5–64, Cl. 15—250.35.

McClain, Raymond L. Kite control. 3,138,356, 6–23–64, Cl. 244—155.

McClanahan, Bernard E.: *See*—
Russell, James A., and McClanahan. 3,118,430.

McClay, Norman C.: *See*—
Dwyer, Anthony A., Garnell, Sealock, and McClay. 3,159,351.

McClay, Richard L., to P. R. Mallory & Co., Inc. Transistor circuit interrupting device. 3,147,400, 9–1–64, Cl. 317—22.

McCleary, Roy E., to Atwood Vacuum Machine Co. Ball head construction for ball and socket coupler. 3,130,993, 4–28–64, Cl. 287—90.

McClellan, Edward L., to Universal Products Corp. Coin box anti-theft device. 3,128,037, 4–7–64, Cl. 232—63.

McClellan, Marcus E., G. R. Sutherland, and G. L. Myers, to Deere & Co. Crop handling machine. 3,147,577, 9–8–64, Cl. 56—504.

McClellan, Ralph E. Drawer slide mechanism. 3,124,401, 3–10–64, Cl. 312—337.

McClellan, Ralph E., to Meilink Steel Safe Co. Follower for filing cabinet drawers. 3,130,732, 4–28–64, Cl. 129—28.

McClellan, Robert S., to Gouverneur Talc Co., Inc. Pneumatic conveying and conditioning method and apparatus. 3,148,865, 9–15–64, Cl. 259—4.

McClellan, Robert S., and H. W. Adam, to Gouverneur Talc Co., Inc. Pneumatic conveying and reclaiming method and apparatus. 3,148,864, 9–15–64, Cl. 259—4.

McClelland, Etheridge R., and C. R. Olson, to Filper Corp. Pear orienting machine. 3,139,172, 6–30–64, Cl. 198—33.

McClelland, Stewart B., J. W. Light, N. H. Moon, and R. Fowler, to Thiokol Chemical Corp. Constrain holder for elastomeric test specimens. 3,117,443, 1–14–64, Cl. 73—103.

McClenahan, William F. Valve-actuating mechanism. 3,118,464, 1–21–64, Cl. 137—360.

McClenahan, William F. Combination water fixture. 3,118,605, 1–21–64, Cl. 239—24.

McClenahan, William F. Plumbing installation device. 3,129,437, 4–21–64, Cl. 4—252.

McClenahan, William F. Combination faucet and drinking fountain. 3,133,701, 5–19–64, Cl. 239—25.

McClendon, Gerald O. Turning radius gauge. 3,143,810, 8–11–64, Cl. 33—203.12.

McClintock, John H., to Esso Research and Engineering Co. Selective separation of oil from water. 3,146,192, 8–25–64, Cl. 210—40.

McCloskey, Allen L.: *See*—
Steinberg, Howard, and McCloskey. 3,139,453.

McCloud, Donald E., ½ to J. D. Stafford. Miter guide box. 3,124,175, 3–10–64, Cl. 143—6.

McCloud, James R., to I-T-E Circuit Breaker Co. Baffle structure for oil circuit breaker tank. 3,157,769, 11–17–64, Cl. 200—150.

McClow, John H., Jr.: *See*—
Downing, James R., and McClow. 3,160,879.

McClung, Miley B., ⅓ to E. G. Hawn. Game apparatus comprising successively playable goals with ball transfer means therebetween. 3,145,992, 8–25–64, Cl. 273—105.

McClure, Carroll D.: *See*—
Loper, George B., McClure, and Simpson. 3,124,781.

McClure, Glenn T., to Westinghouse Air Brake Co. Fluid pressure brake control apparatus with empty and load changeover. 3,136,588, 6–9–64, Cl. 303—23.

McClure, Glenn T., and T. F. Hursen, to Westinghouse Air Brake Co. Railway brake control valve device. 3,160,446, 12–8–64, Cl. 303—36.

McClure, Glenn T., and T. F. Hursen, to Westinghouse Air Brake Co. Railway brake control valve device with continual quick service feature. 3,160,447, 12–8–64, Cl. 303—83.

McClure, Gordon W. Gas ionizer. 3,156,842, 11–10–64, Cl. 313—63.

McClure, James D., to Shell Oil Co. Derivatives of dodecahydro-1,4,7,9-tetraazaphenalene. 3,134,777, 5–26–64, Cl. 260—256.4.

McClure, James D., to Shell Oil Co. Production of dioxane derivatives. 3,140,296, 7–7–64, Cl. 260—340.6.

McClure, Louis C., Sr., ½ to C. P. Humphrey. Organ stop selector. 3,124,992, 3–17–64, Cl. 84—345.

McClure, Robert C.: *See*—
Ellis, Charles R., and McClure. 3,155,918.

McClure, Robert E., and D. A. Shermer, to Olin Mathieson Chemical Corp. Process for preparing 2-mercapto-pyridine-N oxide. 3,159,640, 12–1–64, Cl. 260—294.8.

McClure, Robert M., to Texas Instruments, Inc. Beacon radar recording and reproducing. 3,161,872, 12–15–64, Cl. 343—6.5.

McClure, Thomas V., J. McNutt, H. L. Morgan, and R. E. Oberholtzer, to James Lees and Sons Co. Method for dyeing and treating textile material. 3,137,056, 6–16–64, Cl. 28—75.

McClure, William L., to Sun Oil Co. Contacting of gas with granular solid material. 3,149,064, 9–15–64, Cl. 208—165.

McClurg, Ernest: *See*—
Hanley, William G., and McClurg. 3,131,583.

McColl, John D.: *See*—
Johnson, Willard J., and McColl. 3,148,115.

McColl, William, to Babcock & Wilcox, Ltd. Shot cleaning systems for heat exchangers. 3,130,778, 4–28–64, Cl. 165—11.

McColl, William, to Babcock & Wilcox Ltd. Fluid heater cleaners. 3,138,819, 6–30–64, Cl. 15—317.

McColley, Maurice R. Drywall construction over a bath tub. 3,134,197, 5–26–64, Cl. 50—74.

McCollough, Daniel C.: *See*—
Hickin, Robert J., and McCollough. 3,140,809.

McColm, Eugene M., and W. Ferrell, to United States Rubber Co. Process of tempering nylon. 3,150,435, 9–29–64, Cl. 28—76.

McCombs, Frank P.: *See*—
Shannon, Richard F., and McCombs. 3,158,519.

McCombs, Howard L., Jr., to The Bendix Corp. Fluid servo. 3,125,002, 3–17–64, Cl. 91—365.

McCombs, Howard L., Jr., to The Bendix Corp. Normal and acceleration fuel control for a gas turbine engine having a variable drop control. 3,138,926, 6–30–64, Cl. 60—39.28.

McCombs, Howard L., Jr., to The Bendix Corp. Gas turbine load sharing system. 3,159,000, 12–1–64, Cl. 60—39.15.

McConaghy, James W., to The F. E. Myers & Bro. Co. Submersible pump. 3,158,295, 11–24–64, Cl. 222—333.

McConeghey, William J., to E. I. du Pont de Nemours and Co. Coating composition, coated polyoxymethylene, and process for coating polyoxymethylene. 3,141,789, 7–21–64, Cl. 117—73.

McConkie, Howard S. Tire valve stem. 3,134,418, 5–26–64, Cl. 152—427.

McConkie, Howard S. Tire valve stem. 3,134,419, 5–26–64, Cl. 152—427.

McConkie, Howard S. Inner tube and rubber valve. 3,134,420, 5–26–64, Cl. 152—429.

McConnaughay, Kenneth E. Emulsifier. 3,140,860, 7–14–64, Cl. 259—9.

McConnell, Albert L.: *See*—
Reuther, Richard H. Kasinkas, and McConnell. 3,160,273.

McConnell, Albert L., to Scott Paper Co. Dispensing package for rolled plastic wrap. 3,156,356, 11–10–64, Cl. 206—58.

McConnell, Frank J., to The American Hardware Corp. Latchbolt holdback for doorlocks. 3,141,320, 7–21–64, Cl. 70—150.

McConnell, James L.: *See*—
Phillips, Guy D., and McConnell. 3,125,203.

McConnell, John: *See*—
Kruse, William P., and McConnell. 3,122,740.

McConnell, John E.: *See*—
Halley, James W., and McConnell. 3,140,168.

McConnell, John E. W.: *See*—
Collier, Charles P., and McConnell. 3,144,342.

McConnell, John R. Fabricating of structural steel members or units. 3,127,661, 4–7–64, Cl. 29—33.

McConnell, John R. Fabricating of structural steel members or units. 3,128,366, 4–7–64, Cl. 219—78.

McConnell, John W. Rake for maintenance of sand traps and putting greens of golf courses. 3,146,831, 9–1–64, Cl. 172—21.

McConnell, Kennedy, to Acme Steel Co. Drive-in pallet rack. 3,144,944, 8–18–64, Cl. 211—148.

McConnell, Paul H.: *See*—
Speak, Richard C., and McConnell. 3,154,494.

McConnell, Richard L., and H. W. Coover, Jr., to Eastman Kodak Co. Organophosphorus derivatives of lactones. 3,121,105, 2–11–64, Cl. 260—461.

McConnell, Roland G., to Sebago-Moc Co. Moccasin type shoe. 3,135,060, 6–2–64, Cl. 36—11.

McConnell, Wayne V.: *See*—
Moore, William H., and McConnell. 3,133,091.

McConnell, William M., to Taylor-Wilson Mfg. Co. Method of supporting and rotating pipe for threading operation. 3,128,482, 4–14–64, Cl. 10—1.
McConnell, William M., to United States Steel Corp. Pipe threading machine with rigid tool cross slide. 3,130,427, 4–28–64, Cl. 10—101.
McConnell, William M., to Taylor-Wilson Mfg. Co. Method and apparatus for cutting elongated articles to length or into multiples. 3,131,588, 5–5–64, Cl. 82—47.
McConnell, William M., to Taylor-Wilson Mfg. Co. Taper cutting bar attachment. 3,159,857, 12–8–64, Cl. 10—87.
McConnell, William M., and R. L. Carey, to Taylor-Wilson Mfg. Co. Apparatus for handling elongated articles. 3,118,546, 1–21–64, Cl. 214—1.
McConnell, William M., and G. P. Whitfield, to Taylor-Wilson Mfg. Co. Apparatus for hydraulically pressurizing pipe. 3,137,159, 6–16–64, Cl. 73—49.1.
McConnell, Willie, and G. Head, said McConnell assor. to G. Head. Tabbing machine. 3,155,544, 11–3–64, Cl. 118—410.
McCoogan, George D., to Mannesman-Meer, Inc. Bundle separator. 3,151,747, 10–6–64, Cl. 214—1.
McCool, John C.: *See*—
Layer, Robert W., and McCool. 3,135,796.
McCord Corp.: *See*—
Gale, William S. 3,119,179.
Gobb, Arthur F. 3,143,355.
Urso, Ralph F. 3,139,156.
McCord, Goldwin C., and M. R. Priban. Portable luggage having retractable wheels. 3,141,680, 7–21–64, Cl. 280—38.
McCorkle, John E., to Johns-Manville Corp. Self-sealing shingle. 3,138,897, 6–30–64, Cl. 50—243.
McCorkle, Max, to Thompson Ramo Wooldridge Inc. Rocket nozzle with expandible joints. 3,133,411, 5–19–64, Cl. 60—35.6.
McCorkle, Max, to Thompson Ramo Wooldridge Inc. Submarine mounted telescoping antenna. 3,158,865, 11–24–64, Cl. 343—709.
McCormack, Austin F., Jr. Deaerating steam trap. 3,147,920, 9–8–64, Cl. 236—53.
McCormack, John F.: *See*—
Schneble, Frederick W., Jr., McCormack, Zeblisky, and Polichette. 3,146,125.
McCormack, Mark E., to United States of America, Army. Expendable impact energy absorption device for aerial delivery. 3,130,890, 4–28–64, Cl. 229—14.
McCormack, Mark E., to United States of America, Army. Air-conditioned protective garment and air-supply-and-conditioning apparatus for the same. 3,161,192, 12–15–64, Cl. 126—204.
McCormack, Mark E., and F. M. Milos, to United States of America, Army. Cargo tiedown and locking device. 3,120,946, 2–11–64, Cl. 254—79.
McCormack, Robert K.: *See*—
Davidson, Arthur R., and McCormack. 3,138,939.
McCormick, Colin C.: *See*—
Hamer, Allan N., and McCormick. 3,142,752.
McCormick, Daniel F., to Kiekhaefer Corp. Steering control means for inboard-outboard drives. 3,136,283, 6–9–64, Cl. 115—35.
McCormick, Francis A., and W. T. Nachtrab, to Owens-Illinois Glass Co. Article feed control apparatus and method. 3,133,481, 5–19–64, Cl. 93—37.
McCormick, James B. to Lab-Tek Plastics Co. Container. 3,119,491, 1–28–64, Cl. 206—56.
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McCormick, Martin M., and L. D. Loring, Jr., to Sinclair Research Inc. Method of making greases. 3,117,087, 1–7–64, Cl. 252—41.
McCormick, Martin M., to Sinclair Research, Inc. Complex lubricant. 3,155,619, 11–3–64, Cl. 252—39.
McCormick, Maurice D., to Bear Mfg. Co. Recording attachment for wheel alinement testers. 3,129,516, 4–21–64, Cl. 33—203.14.
McCormick, Robert H., and H. Lawroski, to Esso Research and Engineering Co. Liquid-liquid extraction tower containing individual stages. 3,140,924, 7–14–64, Cl. 23—310.
McCormick, Robert W., to Union Bag-Camp Paper Corp. Combination splint and litter. 3,151,343, 10–6–64, Cl. 5—82.
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McCoy, Frederic C., E. C. Knowles, and H. V. Hess, to Texaco, Inc. Method of preparing finely-divided wax. 3,152,917, 10–13–64, Cl. 106—271.
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McCoy, John H., and W. H. Greenberg, to Riverside Plastics Corp. Sonar dome and self-damping component thereof. 3,136,380, 6–9–64, Cl. 181—5.
McCoy, Marianne. Measuring instrument using a glow tube operated below its ignition threshold. 3,141,131, 7–14–64, Cl. 324—96.
McCoy, Paul E., to American Bitumuls & Asphalt Co. Process for electro-deposition of bituminous materials. 3,159,558, 12–1–64, Cl. 204—181.
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McCreight, Donald O., and R. E. Birch, to Harbison-Walker Refractories Co. Fired silica refractories. Re. 25,572, 5–12–64, Cl. 106—58.
McCreight, Louis R., to General Electric Co. Transpiration cooling system. 3,138,009, 6–23–64, Cl. 62—315.
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McCrory, Rollin J., F. A. Creswick, and R. W. King, to The Battelle Development Corp. Free-piston engine compressor. 3,143,282, 8–4–64, Cl. 230—56.
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McDonald, Donald. Dryer construction. 3,136,612, 6–9–64, Cl. 34—91.
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McDonald, Gerald W. G., to Universal Oil Products Co. Contacting of fluids. 3,133,128, 5–12–64, Cl. 260—683.58.
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McDonald, Lyell J., to Penn Controls Inc. Servomechanism employing a shaded pole motor. 3,153,754, 10–20–64, Cl. 318—28.
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McDowell, Maurice J., and W. G. Tyson, Jr., to E. I. du Pont de Nemours and Co. Coating compositions for container lining. 3,136,449, 6–9–64, Cl. 220—64.
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McElroy, Wilbur R., to Mobay Chemical Co. Method of dissolving polyurethanes. 3,117,940, 1–14–64, Cl. 260—2.3.
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McEuen, Albert H., R. E. Dye, G. O. Heninger, and E. S. Oxner, to Varian Associates. Waveguide hybrid junctions for mutually orthogonal waveguide modes. 3,138,757, 6–23–64, Cl. 325—446.
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McEvoy, Richard T., to Allied Chemical Corp. Mixing process and apparatus for producing polyurethane plastics. 3,141,865, 7–21–64, Cl. 260—75.
McEwan, James. Lawn mower sharpener. 3,126,675, 3–31–64, Cl. 51—48.
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McEwen, John C., to General Motors Corp. Swiveling fluid jet exhaust nozzle construction. 3,147,591, 9–8–64, Cl. 60—35.55.
McFadden, John J. Nock setters. 3,121,280, 2–18–64, Cl. 29—200.
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McFadyen, May A. Safety attachment for tractors. 3,146,-001, 8–25–64, Cl. 280—150.
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McFall, Charles R., to Johnson City Foundry and Machine Works, Inc. Brick machine die changing device. 3,130,-468, 4–28–64, Cl. 25—17.
McFarlan, Alden I. Cooling tower control means. 3,130,557, 4–28–64, Cl. 62—171.
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McFarland, Rolland, Jr., to Hills-McCanna Co. Weir valve. 3,154,286, 10–27–64, Cl. 251—331.
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McGahen, Joe W., to E. I. du Pont de Nemours and Co. Method of disinfecting with formaldehyde-colloidal silica aquasols. 3,148,110, 9–8–64, Cl. 167—26.
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McGaughy, William W., and H. W. Schulz, to Union Carbide Corp. Process for refining polyolefins. 3,119,797, 1–28–64, Cl. 260—93.7.
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McGay, John B., to Rockwell Mfg. Co. Pressure responsive measuring device. 3,136,130, 6–9–64, Cl. 60—54.5.
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McGee, Archie A., Jr., to General Electric Co. Indicator lamp circuit. 3,140,422, 7–7–64, Cl. 315—132.
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Cairns, Theodore L. S., and McGeer. 3,140,308.
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McGlamery, Roger M., to Phillips Petroleum Co. Reducing die swell of extruded ethylene polymers with an additive of iron phthalocyanine and zinc pentachlorothiophenol. 3,157,612, 11–17–64, Cl. 260—30.2.
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McGrath, Thomas J., to Burndy Corp. Connector. 3,125,397, 3–17–64, Cl. 339—272.
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McGrath, William L., S. J. Rachfal, and W. E. Clark, to Carrier Corp. Refrigeration system and apparatus for operating at partial loads. 3,141,311, 7–21–64, Cl. 62—510.
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Abromaitis, Andre T. 3,128,412.
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Goettl, Adam D. 3,136,035.
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Schultz, Fred J., and Sankey. 3,159,765.
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McGraw, Robert P., and H. A. Snyder. Dispensing machine. 3,125,269, 3–17–64, Cl. 226—110.
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McGregor, Eugene R., to Aerotec Industries, Inc. Seats. 3,131,970, 5–5–64, Cl. 297—445.
McGreight, Donald O., B. Davies, and A. L. Renkey, to Harbison-Walker Refractories Co. Silica refractory shapes. 3,144,345, 8–11–64, Cl. 106—58.
McGrew, Frank C., to E. I. du Pont de Nemours and Co. Fluorothiiranes, their preparation and homopolymers thereof. 3,136,744, 6–9–64, Cl. 260—79.
McGrew, Frank C., to E. I. du Pont de Nemours and Co. Aerosols. 3,144,385, 8–11–64, Cl. 267—39.
McGuffey, James W., to Tranter Mfg., Inc. Truck refrigeration system. 3,156,101, 11–10–64, Cl. 62—223.
McGuigan, John H., to Bell Telephone Laboratories, Inc. Magnetic core memory circuits. 3,126,527, 3–24–64, Cl. 340—174.
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McGuire, Hubert E., to Martin-Marietta Corp. Optimum coding technique. 3,153,196, 10–13–64, Cl. 325—143.
McGuire, Jack C., and J. A. Frye, to Halliburton Co. Plug valve with removable insert and liner means. 3,133,722, 5–19–64, Cl. 251—309.
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McGuire, William J., Jr., L. R. Kern, R. E. Wyant, and T. K. Perkins, to The Atlantic Refining Co. Method and a composition for treating subsurface fractures. 3,127,937, 4–7–64, Cl. 166—42.
McGuire, William J., Jr., L. R. Kern, and W. F. Kieschnich, Jr., to The Atlantic Refining Co. Increasing permeability of subsurface formations. 3,155,159, 11–3–64, Cl. 166—29.
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McHenry, Thomas F.: *See*—
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Collins, Benjamin T., and McHugh. 3,141,817.
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McHugh, John E., Jr. Buckle. 3,162,916, 12–29–64, Cl. 24—198.
McHugh, John F., and H. H. Nickell, to Interchemical Corp. Pressure sensitive transfer member and pressure transferable inks therefor. 3,159,592, 12–1–64, Cl. 260—23.7.
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McIlvaine, Oran T., to Energy Kontrols, Inc. Humidity responsive drying apparatus. 3,116,982, 1–7–64, Cl. 34—45.
McIlvaine, Oran T., deceased, by St. Charles National Bank, administrator, to N. R. McIlvaine. Thermally actuated switch compensated for ambient temperature variations. 3,162,743, 12–22–64, Cl. 200—138.
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McIninch, Glenn W., and D. F. Rosterman, to Auburn Machine Works, Inc. Auxiliary transmission for tractors. 3,139,759, 7–7–64, Cl. 74—15.6.
McInnis, Andrew M., to Pendleton Tool Industries, Inc. Ratchet adapter for torque-applying tool. 3,149,707, 9–22–64, Cl. 192—43.1.
McIntire, Donald B., to Union Carbide Corp. Beer lagering process. 3,128,188, 4–7–64, Cl. 99—78.
McIntire, Junius M., and C. C. Loo, to Dairy Foods Inc. Fat-containing dried dairy product and method of manufacture. 3,120,438, 2–4–64, Cl. 99—56.
McIntosh, Donald P., and W. D. Waldron, to The Dow Chemical Co. Rotary valve. 3,157,195, 11–17–64, Cl. 137—375.
McIntosh, Harold A., to Rehrig Pacific Co. Pressure regulating valve. 3,120,856, 2–11–64, Cl. 137—505.36.
McIntosh, Harold A., to International Telephone and Telegraph Corp. Reset circuit for electrical trip-out. 3,149,-267, 9–15–64, Cl. 317—157.
McIntosh, Joseph J. Portable magnetic memorandum device or the like. 3,150,296, 9–22–64, Cl. 317—159.
McIntosh, Joseph J. Magnetic holder for pencils or the like. 3,159,372, 12–1–64, Cl. 248—359.
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McIntyre, Daniel, to Gustin-Bacon Mfg. Co. Brake cylinder release valve. 3,123,408, 3–3–64, Cl. 303—68.
McIntyre, Daniel, W. R. Diehl, and W. A. Olsen, to Emhart Mfg. Co. Method and means for packing articles of tapered shape. 3,143,223, 8–4–64, Cl. 214—6.5.
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McIntyre, Robert L., to General Precision, Inc. Analog-digital converter. 3,143,730, 8–4–64, Cl. 340—347.
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McIver, Norman E., G. A. Leap, and R. W. Cope, to The Bendix Corp. Distance measuring system. 3,144,645, 8–11–64, Cl. 343—12.
McJones, Robert W., to Sperry Rand Corp. Solid propellant cartridge. 3,136,122, 6–9–64, Cl. 60—39.47.
McKay, Arthur F., and D. L. Garmaise, to Monsanto Canada Ltd. N,N′,N′-trisubstituted guanidines. 3,117,994, 1–14–64, Cl. 260—564.
McKay, Arthur F., and J.-M. Billy, to Monsanto Canada Ltd. Substituted 1,2,4-dioxazines. 3,142,677, 7–28–64, Cl. 260—244.
McKay Co., The: *See*—
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McKay, Frank: *See*—
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McKay, Frank C., to Sterling Drug Inc. Peptide synthesis with acylamino acids-alkyl and arene sulfonic acid mixed anhydrides. 3,124,564, 3–10–64, Cl. 260—112.
McKay, George R., Jr., and E. Menefee, to E. I. du Pont de Nemours and Co. Polymerization of ethylene with aluminum hydrocarbon allylic metal alcoholate catalysts. 3,124,-563, 3–10–64, Cl. 260—94.9.
McKay, James G. Synchronizing device for carton printing apparatus and the like. 3,122,993, 3–3–64, Cl. 101—35.
McKay, Lester M., and B. B. Roe. Cannula for heart and vascular surgery. 3,154,079, 10–27–64, Cl. 128—348.
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McKean Tube Co.: *See*—
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McKee, Douglas W., to Union Carbide Corp. Separation of an oxygen-nitrogen mixture. 3,140,933, 7–14–64, Cl. 55—68.
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McKee, Robert E. Sleeper. 3,143,121, 8–4–64, Cl. 135—1.
McKee, Robert G., to G. G. Kraft. Screening device. 3,151,-781, 10–6–64, Cl. 222—189.
McKee, Robert O. Portable two bath solvent vapor parts cleaner. 3,154,084, 10–27–64, Cl. 134—57.
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McKeever, James K., and R. L. Mauck. Necktie rack. 3,118,-541, 1–21–64, Cl. 211—13.
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McKellar, Robert R., J. D. Lynch, G. R. Marsh, J. W. Couture, and F. Haynes. Dryer cylinder with an air impinging hood. 3,163,503, 12–29–64, Cl. 34—122.
McKelvey, George L., to Starn Tool and Mfg. Co. Tire mounting device. 3,123,238, 3–3–64, Cl. 214—332.
McKelvey, Harold E., to Pittsburgh Plate Glass Co. Method of bending glass sheets. 3,146,084, 8–25–64, Cl. 65—107.
McKelvey, Harold E., and D. H. Doehlert. Bending glass. 3,162,523, 12–22–64, Cl. 65—289.
McKelvey, James G., Jr., and K. S. Spiegler, to Gulf Research & Development Co. Ultrafiltration of electrolyte solutions through ion-exchange membranes. 3,132,094, 5–5–64, Cl. 210—23.
McKelvey, John B.: *See*—
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McKenna, Howard W., to General Motors Corp. Binary timer control. Re. 25,658, 10–13–64, Cl. 324—68.
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McKenna, Philip M., to Kennametal Inc. Crushing rolls. 3,138,338, 6–23–64, Cl. 241—294.
McKenney, Clarence M., Jr., and S. K. McKenney. Warming and cooling rack. 3,157,108, 11–17–64, Cl. 99—339.
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McKenney, Clarence M., Jr., and S. K. McKenney. 3,157,-108.
McKenzie, Archibald B., to Rolls-Royce Ltd. Multi-stage axial compressor. 3,142,438, 7–28–64, Cl. 230—122.
McKenzie, George D.: *See*—
Ganguet, William A., and McKenzie. 3,144,744.
McKenzie, Gordon D. Pipe templets and methods of cutting pipe. 3,128,560, 4–14–64, Cl. 33—174.
McKenzie, James H. Tamping tool. 3,122,034, 2–25–64, Cl. 78—47.
McKenzie, Robert W.: *See*—
Schaffer, Francis C., and McKenzie. 3,142,589.
McKenzie, William G., to Walker Mfg. Co. Lubricator. 3,121,475, 2–18–64, Cl. 184—7.
McKenzie, William G., to Walker Mfg. Co. Lubricator. 3,145,-804, 8–25–64, Cl. 184—29.
McKeough, Daniel H., and K. K. Franz, to Canadian Westinghouse Co., Ltd. Temperature-compensated pressure switches for controlling gas blast circuit interrupters. 3,129,309, 4–14–64, Cl. 200—148.
McKeown, Cornelius J., to United States of America, Army. Backing plate hanger. 3,157,931, 11–24–64, Cl. 24—263.
McKeown, Patrick J.: *See*—
Grimm, George W., and McKeown. 3,155,937.
McKibben, Lloyd E. Tank cleaning apparatus. 3,121,536, 2–18–64, Cl. 239—253.
McKibben, Robert F.: *See*—
Forinash, Dana M., and McKibben. 3,121,016.
McKie, George F. Seating accessory for use with chairs arranged in a series. 3,152,835, 10–13–64, Cl. 297—423.
McKindary, Thomas W.: *See*—
Lockwood, Horace C., and McKindary. 3,150,872.
McKinley, Paul G., to Pagebar, Inc. Double saw cutting assembly. 3,130,758, 4–28–64, Cl. 143—6.
McKinley, William: *See*—
Balmer, Vere E., and McKinley. 3,138,120.
McKinnell, John C.: *See*—
Meldau, Robert F., and McKinnell. 3,159,215.
McKinnell, John C., to California Research Corp. Underground initiated miscible bank flooding. 3,126,957, 3–31–64, Cl. 166—11.
McKinney, Chester M., to United States of America, Navy. Method for obtaining high range resolution with continuous transmission frequency. 3,140,461, 7–7–64, Cl. 340—1.
McKinney, Claude O.: *See*—
Hertwig, Waldemar R., and McKinney. 3,117,073.
McKinney, Donald L., to Continental Can Co., Inc. Sheet or coil cooling tank. 3,154,085, 10–27–64, Cl. 134—107.
McKinney, Lawrence A.: *See*—
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McKinney Mfg. Co.: *See*—
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Dickinson, Lloyd R., and Vessalo. 3,148,405.
McKinney, Ralph E., to Hoover Ball and Bearing Co. Discharge apparatus for bins. 3,135,432, 6–2–64, Cl. 222—185.
McKinney, Ralph E., to Hoover Ball and Bearing Co. Apparatus for discharging bulk material from bins. 3,138,-297, 6–23–64, Cl. 222—185.
McKinney, Ralph E., to Hoover Ball and Bearing Co. Apparatus for leveling bulk material in a container. 3,146,997, 9–1–64, Cl. 259—75.
McKinnon, Allen G., to United States Rubber Co. Elastic core yarn. 3,127,731, 4–7–64, Cl. 57—152.
McKinnon, Malcolm N. Auxiliary fuel system for vehicles. 3,132,685, 5–12–64, Cl. 158—46.5.
McKinnon, Roy A., to Thompson Ramo Wooldridge Inc. Internal burning engine configuration. 3,125,853, 3–24–64, Cl. 60—35.6.
McKinnon, Roy A., to Thompson Ramo Wooldridge Inc. Monopropellant reaction motor having perforated wall propellant container. 3,154,041, 10–27–64, Cl. 114—25.
McKinstry, William S. Ear muff. 3,144,663, 8–18–64, Cl. 2—209.
McKinven, Robert, Jr., to Chicago Rawhide Mfg. Co. Bearing seal and installation. 3,163,476, 12–29–64, Cl. 308—187.1.
McKinzie, Adrien P. Dual purpose arrow head. 3,138,383, 6–23–64, Cl. 273—106.5.
McKissick, John, and O. J. McCurry. Football helmet cover. 3,155,981, 11–10–64, Cl. 2—3.
McKnight, George R. Lightable push-button switch assembly. 3,118,038, 1–14–64, Cl. 200—167.
McKnight, Harold S., Jr., R. G. Schemehorn, and N. V. Constantine, to General Industries, Inc. Method and apparatus for fabricating foam core walls. 3,159,514, 12–1–64, Cl. 156—79.
McKnight, James T., to Johnson & Johnson. Edible collagen casing and method of preparing same. 3,123,483, 3–3–64, Cl. 99—176.
McKnight, James T., to Johnson & Johnson. Collagen casing. 3,151,990, 10–6–64, Cl. 99—176.
McKnight, William E., to Westinghouse Electric Corp. Proximity detector. 3,129,415, 4–14–64, Cl. 340—258.
McKowen, William, to Meredith Publishing Co. Plastic spine construction for books. 3,159,411, 12–1–64, Cl. 281—25.
McKown, Ernest M. Leak detecting and indicating mechanism for hydraulic lines. 3,154,651, 10–27–64, Cl. 200—82.
McKown, William L.: *See*—
Holahan, John L., McKown, Moen, and Weiss. 3,134,683.
McKoy, James W. H., and N. Swanson, to The Dow Chemical Co. Preparation of carboxylic acids from olefins, carbon monoxide and water in the presence of a nickel- or cobalt-boric acid catalyst. 3,151,155, 9–29–64, Cl. 260—533.
McLachlan, Peter M., and M. Neale, to Imperial Chemical Industries Ltd. Process for the preparation of ammonium chloride from the liquor of an ammonia-soda process. 3,121,610, 2–18–64, Cl. 23—100.
McLafferty, George H., to United Aircraft Corp. Nuclear magnetohydroelectric generator. 3,140,410, 7–7–64, Cl. 310—11.
McLafferty, George H., to United Aircraft Corp. Supersonic scoop inlet. 3,163,379, 12–29–64, Cl. 244—53.
McLain, Joseph H., and C. T. Rittenhouse, to Olin Mathieson Chemical Corp. Solid propellant composition and method of propulsion using metal oxides. 3,118,275, 1–21–64, Cl. 60—35.4.
McLain, Stuart. Method of operating a nuclear reactor. 3,119,744, 1–28–64, Cl. 176—33.
McLane, Charles K., to Union Carbide Corp. Magnetically-stabilized low pressure arc apparatus and method of operation. 3,127,536, 3–31–64, Cl. 313—162.
McLarty, Frank W. Cotton harvesting machines. 3,124,920, 3–17–64, Cl. 56—12.
McLauchlan, Arthur B. Machine for slicing berries in half. 3,124,183, 3–10–64, Cl. 146—73.
McLaughlin, Emmett J., to Westinghouse Electric Corp. Wiring device and wire release arrangement therefor. 3,152,-851, 10–13–64, Cl. 339—95.
McLaughlin, George E., to Bell Telephone Laboratories, Inc. Differential demodulator. 3,130,266, 4–21–64, Cl. 178—6.
McLaughlin, George H.: *See*—
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McLaughlin, George H., H. A. Harvey, W. O. Cartier, and W. O. Robinson, to Crossland Licensing Corp. Ltd. Method and means for geophysical prospecting utilizing the earth's magnetic time transients. 3,126,510, 3–24–64, Cl. 324—7.
McLaughlin, Homer C., Jr.: *See*—
Ramos, Joe, and McLaughlin. 3,136,360.
Ramos, Joseph, McLaughlin, and Koch. 3,157,232.
McLaughlin, James N. Jack. 3,132,833, 5–12–64, Cl. 248—357.
McLaughlin, John J.: *See*—
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Pennington, Neal A. 3,116,612.
McLaughlin, Lawrence M. Collapsible tube stand. 3,134,507, 5–26–64, Cl. 222—100.
McLaughlin, Paul J., and W. W. Toy, to Rohm & Haas Co. Mineral coated paper products and methods for making them. 3,152,922, 10–13–64, Cl. 117—155.
McLaughlin, Robert B. Vending machines. 3,163,276, 12–29–64, Cl. 194—7.
McLaughlin, Robert L., and J. W. Schick, to Socony Mobil Oil Co., Inc. Preparation of 1,1,3-trimethyl-3-phenylindanes and heat transfer fluids and lubricants therefrom. 3,161,692, 12–15–64, Cl. 260—668.
McLaughlin, Russell A., to Mission Mfg. Co. Taper cup back piston. 3,131,611, 5–5–64, Cl. 92—244.
McLaughlin, Russell B., and R. R. Sinclair, to AMP Inc. Method of making a lead cable assembly. 3,152,028, 10–6–64, Cl. 156—48.
McLaughlin, Thomas F., Jr.: *See*—
Guillotte, John E., and McLaughlin. 3,133,193.
McLay, Alexander, and E. A. Weremeychik, to Allegheny Ludlum Steel Corp. Method and apparatus for metal rolling. 3,162,069, 12–22–64, Cl. 80—32.
McLean, Allan D., to Pacific Car and Foundry Co. Air-ride truck suspension. 3,154,321, 10–27–64, Cl. 280—124.
McLean, Colin C. Convertible seat. 3,151,342, 10–6–64, Cl. 5—29.
McLean, David A.: *See*—
Basseches, Harold, McGeough, and McLean. 3,148,129.
McLean, David A., and W. J. Pendergast, to Bell Telephone Laboratories, Inc. Stabilized tantalum film resistors. 3,159,556, 12–1–64, Cl. 204—37.
McLean, Douglas K., to Harvest Queen Mill & Elevator Co. Shuttle system for internal pipe coating. 3,118,791, 1–21–64, Cl. 118—408.
McLean, Douglas K., to Harvest Queen Mill & Elevator Co. Pipeline coating unit. 3,135,629, 6–2–64, Cl. 118—408.
McLean, Francis P., to The Boeing Co. Cutting fluid. 3,129,182, 4–14–64, Cl. 252—54.
McLean, Howard J., to General Electric Co. Traction motor suspension. 3,135,224, 6–2–64, Cl. 105—136.
McLean, James N.: *See*—
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McLean, James O., to General Electric Co. Adjustable fan support stand. 3,121,548, 2–18–64, Cl. 248—13.
McLean, James O., and W. A. Peslak, to General Electric Co. Motorized drapery puller tensioning means. 3,117,-767, 1–14–64, Cl. 254—175.3.
McLean, John B., and P. L. Sandler, to United States of America, Air Force. Controlled pulse width transmitter comprising multiplex inputs to individual modulator-delay means. 3,124,750, 3–10–64, Cl. 325—142.
McLean, Lawrence W.: *See*—
Small, Augustus B., and McLean. 3,135,721.
McLean, Lorne E. Aquaboard. 3,154,046, 10–27–64, Cl. 115—32.
McLean, Robert E., to Rival Mfg. Co. Wedge action can opener improvement. 3,129,509, 4–21–64, Cl. 30—15.5.
McLean, Robert K.: *See*—
Flint, Hyland C., and McLean. 3,138,373.
McLean, Scott, to L. F. Strassheim Co. Folding chair. 3,138,401, 6–23–64, Cl. 297—36.
McLean, William B., 50% to W. G. Finch. Torque converting propeller. 3,129,767, 4–21–64, Cl. 170—135.4.
McLean, William B., 50% to W. G. Finch. Jet propelled aerostat. 3,152,777, 10–13–64, Cl. 244—30.
McLellan, Silas B. Stud engaging wrench having a fluted gripping surface. 3,161,090, 12–15–64, Cl. 81—53.
McLellan, William H., to Electro-Optical Systems, Inc. High output electrical strain transducers. 3,160,844, 12–8–64, Cl. 338—4.
McLelland, David G.: *See*—
Davis, Lincoln K., and McLelland. 3,140,912.
McLen, Clyde L. Listening pillow. 3,141,179, 7–21–64, Cl. 5—337.
McLennan, Donald W.: *See*—
Conti, Alfred R., and McLennan. 3,138,846.
McLennan, Ian C., to Shell Oil Co. Method of treating wells. 3,137,346, 6–16–64, Cl. 166—20.
McLeod, Charles A.: *See*—
Morgan, John W., and McLeod. 3,142,148.
McLeod, Donald W., to Burndy Corp. Cable tray connector. 3,119,472, 1–28–64, Cl. 189—35.
McLeod, Gordon D.: *See*—
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McLeod, Norman F., to Phillips Petroleum Co. Method and apparatus for controlling catalyst concentration in the production of solid olefin polymers. 3,156,537, 11–10–64, Cl. 23—288.
McLeod, Norman F., and R. N. Carlson, to Phillips Petroleum Co. Separation apparatus. 3,143,482, 8–4–64, Cl. 202—234.
McLeod, Paul C.: *See*—
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Testerman, Maurice K., and McLeod. 3,144,767.
McLeod, Willard W., Jr.: *See*—
Wimberly, Floyd T., McLeod, and Kramp. 3,150,365.
McLeod, Willard W., Jr., to Raytheon Co. Locked oscillator systems. 3,127,572, 3–31–64, Cl. 331—55.
McLeod, William, to Halsam Products Co. Snap fastened end-closure for toy containers and the like. 3,161,345, 12–15–64, Cl. 229—45.
McLin, Frank D.: *See*—
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McLin, Frank D., and G. W. Sellers, to Collins Radio Co. Transmitter automatic frequency control network including modulation cancelling means. 3,137,816, 6–16–64, Cl. 325—148.
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Bowers, William E., and McLoad. 3,137,988.
McLoad, Kenneth W., to Vector Cable Co. Mounting for electrical sensing devices on cables. 3,163,703, 12–29–64, Cl. 174—11.
McLouski, Raymond M., to Westinghouse Electric Corp. Process for making semiconductor devices. 3,117,899, 1–14–64, Cl. 156—17.
McLucas, John L., to HRB-Singer, Inc. Collision warning system. 3,127,610, 3–31–64, Cl. 343—112.
McMackin, John: *See*—
Sloan, Theodore H., Paruolo, and McMackin. 3,159,279.
McMahan, Eugene A. Two cycle engine. 3,119,462, 1–28–64, Cl. 184—6.
McMahon, Floyd J.: *See*—
McCandless, Ira L., and McMahon. 3,125,935.
McMahon, Howard O., and J. L. Miles, to Arthur D. Little, Inc. Electronic devices and process for forming same. 3,149,299, 9–15–64, Cl. 338—32.
McMahon, James F., Jr., to The Electromark Corp. Electrolytic marking apparatus. 3,130,141, 4–21–64, Cl. 204—224.
McMahon, John F., Jr., and J. H. Michel, to Philco Corp. Apparatus for fabricating semiconductor devices. 3,130,-031, 4–21–64, Cl. 65—155.
McMahon, Joseph F., to Pullman Inc. Process for hydrogen production. 3,119,667, 1–28–64, Cl. 23—212.
McMahon, Lawrence E.: *See*—
Wheaton, Robert M., and McMahon. 3,133,030.
McMahon, Robert E. Internal combustion engine. 3,139,-080, 6–30–64, Cl. 123—119.
McMahon, Walter M., and C. G. Abba, to American Pipe and Construction Co. Inorganic coating composition. 3,130,-061, 4–21–64, Cl. 106—84.
McMahon, Walter M., and C. G. Abba. Inorganic coating composition. 3,142,583, 7–28–64, Cl. 117—62.
McMains, Billy D., to Master Specialties Co. Warning light device having a switch operator. 3,158,856, 11–24–64, Cl. 340—378.
McMains, Billy D., to Master Specialties Co. Illuminated warning device with replaceable component. 3,163,708, 12–29–64, Cl. 174—52.
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Weeks, Lloyd E., and McManimie. 3,159,615.
McManus, James M.: *See*—
Buck, Carl J., and McManus. 3,133,060.
McManus, James M., to Chas. Pfizer & Co., Inc. N-alkyl-N-benzyl-β-thiopropionamides. 3,161,680, 12–15–64, Cl. 260—562.
McManus, William W.: *See*—
Belden, Frederick H., McManus, and Hoffman. 3,135,-810.
McMartin, James I., to The Fenn Mfg. Co. Wire pay-off reel. 3,136,496, 6–9–64, Cl. 242—54.
McMaster, Archie J. and S. B., and R. K. Carlson, to G-M Laboratories Inc. Device for conditioning surfaces such as floors and the like. 3,132,369, 5–12–64, Cl. 15—523.
McMaster, Clarence O.: *See*—
Kimble, Donal G., McMaster, and Neher. 3,138,458.
McMaster, Elmer L.: *See*—
Nagle, Floyd B., and McMaster. 3,133,037.
McMaster, Elmer L., and F. B. Nagle, to The Dow Chemical Co. Ammonium bromide composition. 3,123,439, 3–3–64, Cl. 23—100.
McMaster, Elmer L., and F. B. Nagle, to The Dow Chemical Co. Ammonium bromide composition. 3,123,440, 3–3–64, Cl. 23—100.
McMaster, Harold A.: *See*—
Nitschke, Norman C., and McMaster. 3,130,032.
McMaster, Samuel B.: *See*—
McMaster, Archie J. and S. B., and Carlson. 3,132,369.
McMaster, William A. Dental cabinet units. 3,138,415, 6–23–64, Cl. 312—209.
McMasters, Robert A., to Southeastern Metals Co. Carrier for coils of strand material. 3,127,018, 3–31–64, Cl. 211—59.
McMeans, Sidney A. Telephone timer. 3,120,735, 2–11–64, Cl. 58—144.
McMichael Radio Ltd.: *See*—
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McMichael, Wallace T.: *See*—
Pruitt, Malcolm E., McMichael, and Pendleton. 3,130,096.
McMillan, Albert L. Tool for positioning a stud for nailing on a sill. 3,126,928, 3–31–64, Cl. 145—1.
McMillan Corp. of North Carolina, The: *See*—
McMillan, Edward B. 3,151,324.
McMillan, Edward B. 3,152,328.
McMillan, Edward B., to The McMillan Corp. of North Carolina. Wide-band electromagnetic-radiation absorber. 3,151,-324, 9–29–64, Cl. 343—18.
McMillan, Edward B., to The McMillan Corp. of North Carolina. Microwave radiation absorber comprising spaced parallel resistance discs. 3,152,328, 10–6–64, Cl. 343—18.
McMillan, Freeman: *See*—
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McMillan, Jerry N. Apparatus for finishing trousers. 3,117,-704, 1–14–64, Cl. 223—73.
McMillan, John L. Picture frame. 3,161,975, 12–22–64, Cl. 40—152.
McMillan, Stephen L., to General Electric Co. Clothes dryer condensing system. 3,132,005, 5–5–64, Cl. 34—54.
McMillan, Stephen L., to General Electric Co. Water conditioner dispenser for clothes washing machines. 3,142,-165, 7–28–64, Cl. 68—17.
McMillan, Stephen L., to General Electric Co. Clothes washing machine. 3,145,553, 8–25–64, Cl. 68—18.
McMillan, Stephen L., and D. E. Stelli, to General Electric Co. Water conditioner dispenser for clothes washing machine. 3,145,552, 8–25–64, Cl. 68—17.
McMillan, Stewart H., R. E. Mottin, W. A. Sutton, R. D. MacDonald, and E. Linck, to Parke, Davis & Co. Capsule inspection method and sorting machine. 3,123,217, 3–3–64, Cl. 209—111.5.
McMillan, William J., to The Dow Chemical Co. Method for forming articles comprising expanded thermoplastic resinous materials. 3,154,604, 10–27–64, Cl. 264—45.
McMillan, William L., to International Business Machines Corp. Phase stable switching circuits. 3,126,486. 3–24–64, Cl. 307—88.
McMillen, William H.: *See*—
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McMiller, Urban C., to Karpak Co. Car-top luggage carrier with clamping, support brackets. 3,141,588, 7–21–64, Cl. 224—42.1.
McMinn, Talmage D., Jr., to Monsanto Chemical Co. Separation of Friedel-Crafts catalyst complex from hydrocarbons with glass wool. 3,131,229, 4–28–64, Cl. 260—671.
McMullen, Frederick L. Locking hub for a rotary disc lawn mower blade. 3,157,978, 11–24–64, Cl. 56—295.
McMullen, John J.: *See*—
Penney, Norman W. 3,129,682.
McMullen, John J., Associates, Inc.: *See*—
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Ripley, Kenneth C. 3,160,136.
McMullen, Larry G., and L. B. Eberhart, to Deere & Co. Standard and beam connecting means for an earth working implement. 3,141,508, 7–21–64, Cl. 172—744.
McMullen, Thomas J. Sign washer. 3,142,084, 7–28–64, Cl. 15—524.

McMullen, Wayne W. Cylinder device. 3,150,564, 9–20–64, Cl. 91—207.
McMullen, William D.: *See*—
Johnson, Richard E., and McMullen. 3,125,446.
McMullin, Edward V.: *See*—
Donnelly, William H., and McMullin. 3,146,792.
McMullin, William B.: *See*—
Swenck, George F., and McMullin. 3,142,898.
McMurray, Eugene C., to General Motors Corp. Vehicle speed control. 3,132,711, 5–12–64, Cl. 180—82.1.
McMurray, Eugene C., and R. C. Schniers, to General Motors Corp. Vehicle speed warning and cruise control system with preengagement inhibiting means. 3,157,244, 11–17–64, Cl. 180—82.1.
McMurray, Paul H.: *See*—
Haggard, John M., and McMurray. 3,159,139.
McMurtrey, Lawrence J., to The Boeing Co. Nuclear powered water jet engine. 3,151,596, 10–6–64, Cl. 115—14.
McMurtry, George, and J. Stark, to Short Bros. & Harland Ltd. Electro-hydraulic control servo-mechanisms. 3,124,041, 3–10–64, Cl. 91—1.
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McNair, Hugh N., and A. L. Dintino. Bottle type container and dispensing combination embracing the same. 3,132,806, 5–12–64, Cl. 239—318.
McNair, Irving M., Jr., to Bell Telephone Laboratories, Inc. Voltage detector utilizing opposite conductivity type transistors and Zener diodes. 3,117,238, 1–7–64, Cl. 307—88.5.
McNair, Samuel L., to The Songrand Corp. Hydrotherapy apparatus. 3,155,092, 11–3–64, Cl. 128—66.
McNair, William T., Jr.: *See*—
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McNamara, Michael M.: *See*—
Larkin, Frank L., and McNamara. 3,124,632.
McNamara, Richard A., to Zenith Radio Corp. Tone balance indicators. 3,118,422, 1–21–64, Cl. 116—124.4.
McNaney, Joseph T. Fluid displacement light beam selection and positioning apparatus. 3,121,867, 2–18–64, Cl. 340—347.
McNaney, Joseph T., to General Dynamics Corp. Apparatus for recording information upon a record medium. 3,121,873, 2–18–64, Cl. 346—74.
McNaney, Joseph T. Electrostatic data recording apparatus. 3,126,548, 3–24–64, Cl. 346—74.
McNaney, Joseph T., to General Dynamics Corp. Dispenser cathode for cathode ray tube. 3,131,328, 4–28–64, Cl. 313—337.
McNaney, Joseph T. Photoelectric storage devices using jacketed light fibers. 3,135,866, 6–2–64, Cl. 250—213.
McNaney, Joseph T. Light responsive voltage modulating device. 3,135,868, 6–2–64, Cl. 250—227.
McNaney, Joseph T., to General Dynamics Corp. Photographic recording apparatus having cathode ray readout of a character mask. 3,138,663, 6–23–64, Cl. 178—15.
McNaney, Joseph T. Printing apparatus. 3,145,632, 8–25–64, Cl. 95—1.7.
McNaney, Joseph T., to General Dynamics Corp. Electrostrictive apparatus for changing displays. 3,146,367, 8–25–64, Cl. 313—86.
McNaney, Joseph T. Piezoelectric transducer force to motion converter. 3,154,700, 10–27–64, Cl. 310—8.3.
McNaney, Joseph T., to General Dynamics Corp. Transducing apparatus. 3,158,430, 11–24–64, Cl. 346—77.
McNaney, Joseph T. Light radiation sensitive variable resistance device. 3,162,860, 12–22–64, Cl. 346—74.
McNay, Ralph E.: *See*—
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McNay, Ralph E., to Ashland Oil & Refining Co. Emulsion polymerization. 3,157,608, 11–17–64, Cl. 260—27.
McNay, Ralph E., and W. R. Peterson, to Ashland Oil & Refining Co. Freeze resistant latex. 3,151,090, 9–29–64, Cl. 260—27.
McNay, Ralph E., and W. R. Peterson, to Ashland Oil & Refining Co. Freeze resistant latex. 3,151,093, 9–29–64, Cl. 260—27.
McNay, Ralph E., and W. R. Peterson, to Ashland Oil & Refining Co. Treatment of synthetic rubber. 3,157,609, 11–17–64, Cl. 260—27.
McNeal, Daniel R., to Andole Co. Means for simultaneous actuating plug valves in a duplex strainer. 3,116,755, 1–7–64, Cl. 137—601.
McNeely, Branch M.: *See*—
Forsman, Earl R., and McNeely. 3,156,161.
McNeely, Lowell A., to Carrier Corp. Absorption refrigeration systems. 3,131,552, 5–5–64, Cl. 62—475.
McNees, Robert A., and R. A. Potter, to United States of America, Atomic Energy Commission. Stabilized rare earth oxides for a control rod and method of preparation. 3,117,372, 1–14–64, Cl. 29—470.
McNeil, Daniel W.: *See*—
Hwa, Charles C. L., and McNeil. 3,125,541.
McNeil, Donald H., to Cockshutt Farm Equipment of Canada Ltd. Cleaner for air screen. 3,155,473, 11–3–64, Cl. 55—294.
McNeil, Gomer T., to Photogrammetry, Inc. Underwater 360° panoramic camera. 3,141,397, 7–21–64, Cl. 95—15.
McNeil, James S., Jr.: *See*—
Nelson, Theodore W., and McNeil. 3,126,953.
McNeil Laboratories, Inc.: *See*—
Poos, George I. 3,122,554.
Poos, George I. 3,133,901.
Poos, George I. 3,161,650.
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McNeil Machine & Engineering Co., The: *See*—
Cook, John F. 3,123,745.
Mueller, Carl H., and Schneller. 3,159,035.
Rotter, Lutwin C. 3,144,096.
Soderquist, Leslie E. 3,134,136.
Soderquist, Leslie E. 3,141,191.
McNeil, Manford, to Certain-Teed Products Corp. Coupling for liquid absorbent conduit having a crushable spacer. 3,129,964, 4–21–64, Cl. 285—369.
McNeil, Richard J. Display device. 3,149,728, 9–22–64, Cl. 211—169.
McNeill, Angus. Cuff link. 3,119,161, 1–28–64, Cl. 24—100.
McNeill, Robert M. Material cutting device. 3,137,192, 6–16–64, Cl. 83—455.
McNeill, Roy L.: *See*—
Heimaster, John W., Jenkins, and McNeill. 3,150,519.
McNeilly, Joseph A.: *See*—
King, Duncan E., and McNeilly. 3,119,524.
McNelis, Edward J., to Sun Oil Co. Preparation of 1,2,4-triphenylnaphthalene. 3,123,649, 3–3–64, Cl. 260—668.
McNemar, Kenneth L.: *See*—
Adamson, Bliss, Carter, and McNemar. 3,145,995.
McNinch, Joseph H., Jr.: *See*—
McCrory, Rollin J., McNinch, Daggett, and Day. 3,146,940.
McNinch, Joseph H., Jr., and R. J. Della Flora, to The De Vilbiss Co. Airless spray gun utilizing low pressure coating material source. 3,163,360, 12–29–64, Cl. 239—124.
McNulty, John G.: *See*—
Gilbert, William I., Gwynn, Hay, and McNulty. 3,160,622.
McNulty, Joseph V.: *See*—
Schymik, Walter H., and McNulty. 3,155,471.
McNutt, John: *See*—
McClure, Thomas V., McNutt, Morgan, and Oberholtzer. 3,137,056.
McPeek, Orlin A.: *See*—
Gillette, William M., Jr., McPeek, and Pearne. 3,154,206.
McPhaden, Lawrence A. Gate. 3,148,725, 9–15–64, Cl. 160—161.
McPhail, Robert G., deceased; (The Park National Bank, executor), and K. Franck, to Holophane Co., Inc. Street light refractor. 3,154,254, 10–27–64, Cl. 240—106.
McPhedran, Alexander I.: *See*—
Whitwell, Arthur L., Williams, and McPhedran. 3,156,867.
McPhee, Alexander H.: *See*—
Nimke, Helmut E., McPhee, and Reid. 3,156,939.
McPhee, Alexander H., and T. H. Reid, to Hepworth Machine Co., Inc. Centrifugal machine basket. 3,123,557, 3–3–64, Cl. 210—382.
McPherson, Alexander L., H. G. Bailey, and A. D. Stevens, to Gustin-Bacon Mfg. Co. Mandrel stripper for mat winding machine. 3,127,024, 3–31–64, Cl. 214—1.
McPherson, Alexander W., to De-Sta-Co Corp. Toggle clamp with adjustable guide. 3,149,832, 9–22–64, Cl. 269—228.
McPherson, Hector R. Parking meter. 3,153,469, 10–20–64, Cl. 194—4.
McPherson Instrument Corp.: *See*—
McPherson, Paul M. 3,161,769.
McPherson, John W., to The General Electric Co. Ltd. Variable-impedance electric circuits. 3,158,800, 11–24–64, Cl. 323—22.
McPherson, Paul M., to McPherson Instrument Corp. Ultraviolet spectrometer with means to change the length of the optical path in the fluent material. 3,161,769, 12–15–64, Cl. 250—43.5.
McPherson, Richard E.: *See*—
Kaluzny, John C., Meyer, and McPherson. 3,159,011.
McPherson, Roman H., to Dyna-Tex, Inc. Apparatus for molding designs in pressed-wood. 3,158,902, 12–1–64, Cl. 18—16.
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Lasker, Martin L. 3,160,310.
McQuade, James M., to General Electric Co. Insulating coating for magnetic sheet material and method for producing the same. 3,132,056, 5–5–64, Cl. 148—31.5.
McQuaid, Harry W. Continuous iron ore reduction process and apparatus. 3,139,335, 6–30–64, Cl. 75—40.
McQuain, David B.: *See*—
Berman, Elliot, and McQuain. 3,149,120.
McQuay-Norris Mfg. Co.: *See*—
Rodenkirchen, Theodore P. 3,140,096.

McQueary, Milton F. Arrow straightener. 3,154,982, 11–3–64, Cl. 81—15.
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Cotton, Joseph B., and McQuillan. 3,118,828.
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Richardson, William F., and McQuitty. 3,151,853.
McRae, Dougal H., to Rohm & Haas Co. Herbicidal compositions and methods. 3,134,666, 5–26–64, Cl. 71—2.7.
McRae, Dougal H., to Rohm & Haas Co. Herbicidal composition and method. 3,154,398, 10–27–64, Cl. 71—2.6.
McRae, Duncan, to Novo Industrial Corp. Combination step stool and chair. 3,125,183, 3–17–64, Cl. 182—33.6 .
McRae, Duncan, to Novo Industrial Corp. Foldable high-chair. 3,147,036, 9–1–64, Cl. 297—56.
McReynolds, Andrew W.: *See*—
Taylor, Theodore B., McReynolds, and Dyson. 3,127,325.
McReynolds, Horace J., Jr., to Waldorf Paper Products Co. Can carriers. 3,123,214, 3–3–64, Cl. 206—65.
McReynolds, Oliver B., Jr. Bridge plugs. 3,126,827, 3–31–64, Cl. 102—30.
McReynolds, Preston S.: *See*—
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McRobbie, Henry W., to Union Carbide Corp. Separation of an oxygen-nitrogen mixture. 3,140,931, 7–14–64, Cl. 55—25.
McRobert, Leon R., to FMC Corp. Root crop harvester having a specific crop separating means. 3,125,097, 3–17–64, Cl. 130—30.
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McRoberts, William C., and Golightly. 3,136,619.
McRoberts, James C., to The Bendix Corp. Servo governor having emergency manual control means. 3,139,892, 7–7–64, Cl. 137—18.
McRoberts, William C., deceased (by G. D. McRoberts, administratrix), and J. S. Golightly, to Pittsburgh Plate Glass Co. Method and apparatus for bending glass. 3,136,619, 6–9–64, Cl. 65—107.
McSeveny, Roy W., to Ford Motor Co. Carburetor. 3,151,-189, 9–29–64, Cl. 261—52.
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Cluff, Edward F., and McShane. 3,149,154.
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McSheehy, Justin A., and H. Soffer, to American Cyanamid Co. Milling process. 3,126,293. 3–24–64, Cl. 106—309.
McSorley, Malcolm S., and K. Rutenberg. Bedclothes clamp. 3,143,747, 8–11–64, Cl. 5—320.
McSpadden, Hugh J., and D. D. Kobbeman, to North American Aviation, Inc. Gas generator. 3,138,927, 6–30–64, Cl. 60—39.47.
McStravick, Peter R., to Jersey Production Research Co. Completion and working over of wells. 3,116,793, 1–7–64, Cl. 166—21.
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Ellis, Francis R., nad McVay. 3,130,734.
McVay, Raymon. Fishing lure. 3,128,572, 4–14–64, Cl. 43—42.45.
McVay, Raymon. Fishing lure. 3,146,543, 9–1–64, Cl. 43—42.45.
McVey, Emmett E.: *See*—
Reighart, June H., McVey, and Opre. 3,131,790.
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McVey, Kenneth E.: *See*—
McCarthy, Earl D., and McVey. 3,126,631.
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Johnson, Bertil, and McVicker. 3,137,981.
Krane, Robert, and McVicker. 3,153,937.
McVicker, Robert F., B. Johnson, O. Hansen, Jr., and J. C. Travis, to Lynch Corp. Wrapping machine. 3,150,474, 9–29–64, Cl. 53—66.
McVoy, Charles F., Jr.: *See*—
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McWethy, Irvin E., and J. F. Oles, to Hupp Corp. Sequential control mechanism for laundry appliance. 3,142,731, 7–28–64, Cl. 200—38.
McWhorter, Alan L.: *See*—
Rediker, Robert H., and McWhorter. 3,118,130.
McWhorter, Cullen J., to Houston Oil Field Material Co., Inc. Means for determining the inclination of well pipes. 3,129,517, 4–21–64, Cl. 33—205.
McWhorter, Donald B.: *See*—
Kasbohm, Martin L., and McWhorter. 3,121,999.
McWhorter, Wayne F., to Devoe & Raynolds Co., Inc. Siloxane modified epoxide resins. 3,154,597, 10–27–64, Cl. 260—824.
McWhorter, William B.: *See*—
Priester, Amos U., Jr., and McWhorter. 3,152,381.
McWilliams, Arthur C. Stamp dispenser. 3,152,739, 10–13–64, Cl. 225—46.
McWilliams, James B., to Railway Maintenance Corp. Railway track spiking machine. 3,120,195, 2–4–64, Cl. 104—17.
McWilliams, James B., to Railway Maintenance Corp., and Poor & Co. Track lubricator. 3,163,257, 12–29–64, Cl. 184—3.
McWilliams, John R., and L. D. Kester. Coiler for flexible members such as electric cords. 3,147,833, 9–8–64, Cl. 191—12.4.
McWilliams, Joseph E. Loading of bagged mail. 3,157,301, 11–17–64, Cl. 214—514.
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Meacham, John W., to General Electric Co. Busway with resilient connecting means for plural busbars. 3,124,642, 3–10–64, Cl. 174—88.
Meacham, Larned A., to Bell Telephone Laboratories, Inc. Telephone substation apparatus. Re. 25,507, 1–7–64, Cl. 179—81.
Mead Corp., The: *See*—
Forrer, Homer W. 3,122,266.
Forrer, Homer W. 3,128,010.
Forrer, Homer W. 3,128,906.
Gentry, Hermond G. 3,154,827.
Gentry, Hermond G., and Garrard. 3,127,720.
Hasselhoff, Carl S. 3,141,599.
Hintz, Lawrence R. 3,163,346.
Holcombe, Harold N. 3,134,525.
Jenk, Robert L. 3,129,868.
Pelletier, Andre J., and Wrist. 3,150,997.
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Wood, Prentice J. 3,130,527.
Wood, Prentice J. 3,156,404.
Mead Johnson & Co.: *See*—
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Gould, William A. 3,135,766.
Grunwald, Frederick A. 3,155,650.
Lawes, Bernard C., and Scarborough. 3,127,401.
Lish, Paul M., Bryan, and Mercer. 3,155,576.
Mercer, Neil H., and Bryan. 3,155,577.
Scarborough, Homer C. 3,139,432.
Scarborough, Homer C. 3,159,648.
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Wu, Yao H., Feldkamp, and Gould. 3,118,906.
Wu, Yao H., Feldkamp, and Gould. 3,118,907.
Wu, Yao H., Feldkamp, and Gould. 3,127,415.
Wu, Yao H., Feldkamp, and Scarborough. 3,133,082.
Mead Specialties Co., Inc.: *See*—
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Meador, Jim C. Sculpturing block. 3,123,919, 3–10–64, Cl. 35—26.
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Meadows Mfg. Co.: *See*—
Meadows, Ernest D. 3,116,590.
Meads, Marshall M., to General Motors Corp. Gear pump. 3,130,682, 4–28–64, Cl. 103—126.
Meagher, Frederick L., to American Can Co. Handle for nestable cups. 3,151,798, 10–6–64, Cl. 229—1.5.
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Means, Herbert E., to United Aircraft Corp. Heat exchanger. 3,134,432, 5–26–64, Cl. 165—161.
Means, James O., F. H. Braunlich, Jr., and A. R. Hendrickson, to The Dow Chemical Co. Composition for use in well treatment. 3,134,436, 5–26–64, Cl. 166—33.
Mears, Leroy H. Boat storage apparatus. 3,139,277, 6–30–64, Cl. 269—296.
Mears, Merton D., to United States of America, Army. Impermeable slit-type flexible door. 3,136,356, 6–9–64, Cl. 160—87.
Mears, Norman B. Screen grid for power tubes and method of making the same. 3,130,473, 4–28–64, Cl. 29—25.14.
Mears, Norman B. Method of making fine mesh dome-shaped grids. 3,130,487, 4–28–64, Cl. 29—424.
Mears, Norman B. Method of forming precision articles. 3,139,392, 6–30–64, Cl. 204—15.
Mears, Norman B. Fine mesh screens. 3,155,460, 11–3–64, Cl. 29—183.5.
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MeCaskey, Eugene. Safety guard for ram of hydraulic hoist. 3,135,555, 6–2–64, Cl. 298—22.
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Mechaneck, Mary. Growth measuring device. 3,137,943, 6–23–64, Cl. 33—2.

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Mechanical Industries Production Co.: *See*—
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Mechanical Power Corp.: *See*—
Hiemstra, Marvin J., Vander Sloot, and Johnson. 3,160,078.
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Ingwersen, Richard C. 3,145,281.
Ingwersen, Richard C. 3,158,715.
Malone, Homer F., and Lauer. 3,134,873.
Malone, Homer F., and Quint. 3,135,848.
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Di Pasqua, Joseph. 3,128,076.
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Curwen, Peter W. 3,156,405.
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La Haye, Paul G. 3,161,020.
Smith, Lewis F. 3,127,094.
Smith, Lewis F. 3,135,215.
Smith, Valentine J. 3,133,692.
Mechlin, George F.: *See*—
Moy, Tsoy K., and Mechlin. 3,160,062.
Mechlin, George F., Jr., and R. D. Rung, to United States of America, Navy. Self-rupturing diaphragm assembly. 3,135,163, 6–2–64, Cl. 89—5.
Meck, Pierce A.: *See*—
Capowich, George, and Meck. 3,136,369.
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Meckler, Gershon, to Space Conditioning Corp. Metallic, cellular, structural floor. 3,148,727, 9–15–64, Cl. 165—49.
Meckler, Gershon, to Lithonion Lighting, Inc. Comfort conditioning system. 3,153,914, 10–27–64, Cl. 62—271.
Meckley, George E., to Hanover Tool Co., Inc. Fill wire inserting means. 3,160,178, 12–8–64, Cl. 139—127.
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Meckstroth, Robert C., S. J. Sulek, R. W. Morin, J. H. Day, T. M. Silcott, and W. E. Davies, to The National Cash Register Co. Thermal printers. 3,139,026, 6–30–64, Cl. 101—93.
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Medical Coaches, Inc.: *See*—
Smith, Ian M. 3,150,260.
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Medicus, Gustav K. Leakproof vacuum valve. 3,120,373, 2–4–64, Cl. 251—124.
Medicus, Gustav K., and W. F. Jehn. Variable linear positioner. 3,157,055, 11–17–64, Cl. 74—18.1.
Medicus, Gustav K., and W. F. Jehn. Valve seats for high temperature and high vacuum environments. 3,160,391, 12–8–64, Cl. 251—364.
Medina, Eufelio E., and E. R. Cordova. Safety belt. 3,134,548, 5–26–64, Cl. 240—59.
Medl, Robert C.: *See*—
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Medley, Harold C., to Jeffrey Galion Mfg. Co. Spiral conveyor including disassembly means. 3,144,125, 8–11–64, Cl. 198—213.
Medley, Harold C., to Jeffrey Galion Mfg. Co. Air purged bearing for spiral conveyor. 3,144,282, 8–11–64, Cl. 308—187.1.
Medley, Harold C., to International Business Machines Corp. Deformation image development apparatus. 3,162,104, 12–22–64, Cl. 95—1.7.
Medley, Ronald D., to Consolidated Thermoplastics Co. Shaft stabilizer. 3,145,628, 8–25–64, Cl. 92—166.
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Medlock, James D., E. M. Galle, and G. O. Atkinson, to Hughes Tool Co. Rock bit with replaceable air course. 3,125,174, 3–17–64, Cl. 175—337.
Medlock, James D., E. M. Galle, and G. O. Atkinson, to Hughes Tool Co. Rock bit with replaceable air course. 3,125,175, 3–17–64, Cl. 175—337.
Medlock, John P. Liquid measuring dispensers. 3,141,579, 7–21–64, Cl. 222—207.
Mednick, Leo, to Lincoln Textile Products Co., Inc. Furniture slip cover. 3,117,817, 1–14–64, Cl. 297—224.
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Troll, William A., Medoff, and Sorreiro. 3,151,583.
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Medoff, Irving, and C. Bonsignore, to Emsig Mfg. Co. Feeder actuator. 3,127,857, 4–7–64, Cl. 112—113.
Medoff, Irving, and C. Bonsignore, to Emsig Mfg. Co. Hopper for face orienting unsymmetrically faced articles. 3,145,875, 8–25–64, Cl. 221—167.
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Medwin, Albert H., and E. Luedicke, to Radio Corp. of America. Modular memory structures. 3,161,859, 12–15–64, Cl. 340—173.
Mee, Alec: *See*—
Berrie, Alistair H., Mee, and Vellins. 3,121,712.
Mee, Francis H. A.: *See*—
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Meechan, Charles J.: *See*—
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Meeder, Raymond L., and C. E. Mielke, to Nuclear-Chicago Corp. Radioactive source shielding device for radiography with safety latching means. 3,126,484, 3–24,64, Cl. 250—106.
Meeder, Raymond L., and J. E. Kus, to Nuclear-Chicago Corp. Sample-conveying and light-sealing mechanism for scintillation counting. 3,163,756, 12–29–64, Cl. 250—71.5.
Meehan, Elizabeth J., to The Atlantic Refining Co. Synthetic detergent toilet bar. 3,129,187, 4–14–64, Cl. 252—155.
Meek, Cicero P. Clavicle splint. 3,141,456, 7–21–64, Cl. 128—87.
Meek, George W., to Lizenzia A.G. Movable air conditioning apparatus. 3,144,901, 8–18–64, Cl. 165—6.
Meek, Harold J., to Jaroco International Inc. Sandblast generator. 3,148,484, 9–15–64, Cl. 51—12.
Meek, William H., Jr., to Ferro Corp. Anti-oxidant stabilizer. 3,159,599, 12–1–64, Cl. 260—45.75.
Meeker, David A.: *See*—
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Meeker, David A., G. B. Fox, and D. E. Vandeveer, to The Hobart Mfg. Co. Conveyor structure for a dishwasher. 3,122,235, 2–25–64, Cl. 198—181.
Meeker, Robert E.: *See*—
Dunn, Clarence L., Hefferich and Meeker. 3,130,243.
Konecny, Jan O., and Meeker. 3,156,654.
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Meeker, Thrygve R., and H. L. Stadler, to Bell Telephone Laboratories, Inc. Information storage matrix utilizing a dielectric of pressure changeable permutiuity. 3,118,133. 1–14–64. Cl. 340—173.
Meeker, Willard F.: *See*—
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Meeker, William D., L. S. Simmons, and W. C. Vanderslice, to Product Development Corp. Driving and suspension system for amphibious vehicle. 3,161,246, 12–15–64, Cl. 180—6.48.
Meeks, Arol W., to R. Frost. Aircraft tow bar. 3,132,886, 5–12–64, Cl. 294—16.
Meen, Ronald H., W. H. Moore, and J. B. Dickey, to Eastman Kodak Co. Azo dyes from aminoisothiazoles. 3,143,540, 8–4–64, Cl. 260—155.
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Mees, Robert, to Leitz, Ernst, Geselschaft mit beschrankter Haftung. Film guide means for cinematographic projectors. 3,129,633, 4–21–64, Cl. 88—17.
Meese, George E. Handling and storage means for marine hatch covers. 3,131,922, 5–5–64, Cl. 268—18.
Meese, John W., to The Ridge Tool Co. Thin wall conduit and cable cutter with clamping means. 3,117,375, 1–14–64, Cl. 30—96.
Meese, John W., to The Ridge Tool Co. Tube flaring tool. 3,117,617, 1–14–64, Cl. 153—81.
Meewes, Günter: *See*—
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Megel, Guillaume-E., and H. Mancia, to Usines Tornos Fabrique de Machines Moutier S.A. Automatic lathe. 3,135,149, 6–2–64, Cl. 82—28.
Megel, Guillaume E., and H. Mancia, to Usines Tornos Fabrique de Machines Moutier S.A. Safety device for use with automatic lathes. 3,157,895, 11–24–64, Cl. 10—89.
Meggitt, John E., to International Business Machines Corp. Error correcting code device with modulo-2 adder and feedback means. 3,162,837, 12–22–64, Cl. 340—146.1.

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Mehki, Russell J., to R. J., R. G., A. L., and F. D. Mehki, L. and D. Rodenbeck, and R. C. Elconin. Vehicle axle weighing scale with remote indicator. 3,150,729, 9–29–64, Cl. 177—141.
Mehlhorn, Helmut, to North American Philips Co., Inc. Television receiver tuning indicator. 3,123,669, 3–3–64, Cl. 178—7.5.
Mehlhorn, Helmut, to North American Philips Co., Inc. Television receiver provided with an arrangement for obtaining a control quantity corresponding to the degree of detuning. 3,127,473, 3–31–64, Cl. 178—5.8.
Mehling, Alfred J. Flower or plant holder for tombstone. 3,142,934, 8–4–64, Cl. 47—34.
Mehlman, Ralph E. Spirit level. 3,138,878, 6–30–64, Cl. 33—211.
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Mehta, Minoo D., and R. M. Quinton, to Beecham Research Laboratories Ltd. N-alkyl-pyrrolidine-2-methanol, α-cyclohexyl mandelates. 3,117,976, 1–14–64, Cl. 260—326.3.
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Meier, Donal A., to The National Cash Register Co. Magnetic data-storage device and matrix. 3,134,965, 5–26–64, Cl. 340—174.
Meier, Edwin, and E. Schweizer, to Ciba Ltd. Cell for electrolysis of melts having a plurality of movable cathodes. 3,156,638, 11–10–64, Cl. 204—226.
Meier, Erhard, deceased (by I., J. and S. Meier), to Farbenfabriken Bayer Aktiengesellschaft. Purification of sugar solutions by means of spongy ion exchangers. 3,122,456, 2–25–64, Cl. 127—46.
Meier, Eric A., and M. Dexter, to Geigy Chemical Corp. Process for the preparation of propionitriles containing a hindered phenolic residue. 3,121,732, 2–18–64, Cl. 260—465.
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Meier, Hermann. Rail anchorage. 3,129,887, 4–21–64, Cl. 238—265.
Meier, Ingeburg: *See—*
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Meier, Johann, to Mepag, A.G. Precision balances. 3,160,-219, 12–8–64, Cl. 177—198.
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Meier, William A., to Signode Steel Strapping Co. Method of strap sealing and shearing. 3,152,621, 10–13–64, Cl. 140—93.4.
Meierhofer, Hugo, to Zellwerger Ltd., Uster Factories for Apparatus and Machines. Method and apparatus for automatically threading the healds of a loom. 3,121,936, 2–25–64, Cl. 28—46.
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Meili, Ernst, to Cerberus G.m.b.H. Electric alarm system. 3,160,866, 12–8–64, Cl. 340—226.
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Meiners, Carl O., and H. W. and W. B. Lessing, to Meiners Optical Devices Ltd. Lamps and lighting equipment. 3,139,604, 6–30–64, Cl. 340—25.
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Meinicke, Erich. Machine for opening and cleaning cotton and forming a lap therefrom. 3,131,437, 5–5–64, Cl. 19—156.4.
Meinke, Wilmon W., and R. Reiser, to The Texas A & M Research Foundation. Processing of cottonseed. 3,124,-461, 3–10–64, Cl. 99—2.
Meis, Earl: *See—*
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Meisenbach, John R., to Shinn Engineering Inc. Profiler. 3,147,666, 9–8–64, Cl. 90—13.5.
Meisenheimer, Daniel T., Jr., and L. W. Syarto. Pressure switch. 3,119,910, 1–28–64, Cl. 200—83.
Meiser, Werner, H. Henecka, F. Hoffmeister, and W. Wirth, to Farbenfabriken Bayer Aktiengesellschaft. Analgesic and diuretic 2-acetylamino and 2-propionylamino Δ-2-dihydro-1,3-thiazines. 3,137,628, 6–16–64, Cl. 167—65.
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Meisert, Ernst, to Farbenfabriken Bayer Aktiengesellschaft. Stabilization of organic isocyanates. 3,149,139, 9–15–64, Cl. 260—453.
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Meisinger, Erwin E., and H. S. Bloch, to Universal Oil Products Co. Alkali metal amide catalysts and their use in polymerizing olefins. 3,128,318, 4–7–64, Cl. 260—683.15.
Meisinger, Erwin E., and R. S. Corey, to Universay Oil Products Co. Isomerization of normal butane. 3,128,319, 4–7–64, Cl. 260—683.65.
Meisinger, Erwin E., and E. L. Pollitzer, to Universal Oil Products Co. Method for the production of a hydrocarbon conversion catalyst. 3,163,612, 12–29–64, Cl. 252—438.
Meisler, Joseph, to North American Philips Co., Inc. Hydrogen and helium separation and purification. 3,126,266, 3–24–64, Cl. 62—18.
Meisner, Alfred L. W., to Diehl. Electric clock. 3,134,220, 5–26–64, Cl. 58—28.

Meissen, Wolfgang, to Siemens-Schuckertwerke Aktiengesellschaft. Multi-phase semiconductor rectifying apparatus utilizing series connected silicon controlled rectifier sympathetically fired. 3,122,695, 2–25–64, Cl. 321—16.

Meissner, Fritz, N. Rudolph, and H. Becker, to Josef Meissner Firm. Mixing and separating apparatus. 3,162,510, 12–22–64, Cl. 23—267.

Meissner, Heribert, to J. Meissner. Process and device for the filling of shells with an explosive agent containing phosphorus. 3,159,076, 12–1–64, Cl. 86—20.

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Meissner, William L., to Minnesota Mining and Mfg. Co. Right-reading reproduction of printed originals. 3,121,650, 2–18–64, Cl. 156—240.

Meister, George, to Westinghouse Electric Corp. Electrostatic coating method and apparatus. 3,125,457, 3–17–64, Cl. 117—17.

Meister, Harry G., Jr., and J. E. Olson, to Hyster Co. Package of elongated articles for vacuum pick-up and packaging material. 3,147,858, 9–8–64, Cl. 206—60.

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Meitzler, Allen H., to Bell Telephone Laboratories, Inc. Ultrasonic strip delay lines. 3,155,926, 11–3–64, Cl. 333—30.

Meixner, Alfred, to Voigtlander A.G. Mount for photographic objectives. 3,142,239, 7–28–64, Cl. 95—44.

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Mekel, Ralph, to Burroughs Corp. Circuit for preventing ringing in a pulsed network. 3,152,265, 10–6–64, Cl. 307—88.5.

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Melanson, William A., and W. H. West, to Cambridge Thermionic Corp. Variable impedance device having movable core and mounting means 3,133,260, 5–12–64, Cl. 336—136.

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Melchiorre, Oliviero, to Allerton Investment Corp. Shoe heel having a replaceable tread part. 3,148,462, 9–15–64, Cl. 36—36.

Meldau, Robert F., and J. C. McKinnell, to California Research Corp. Assisted petroleum recovery by selective combustion in multi-bedded reservoirs. 3,159,215, 12–1–64, Cl. 166—10.

Meldrum, Roy W., to Bursime Corp. Clamping device for a bag-type receptacle. 3,138,361, 6–23–64, Cl. 248—95.

Melehy, Mahmoud A. Thermoelectric P-N junction devices. 3,124,936, 3–17–64, Cl. 62—3.

Meletiou, Nicholas S., to J. J. Moss. Rotary deflector for aircraft engine intakes. 3,121,545, 2–18–64, Cl. 244—53.

Melhart, Leonard J. Magnetic blowout contact switch. 3,147,358, 9–1–64, Cl. 200—147.

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Mell, Thomas L., to Trans-Weigh Co. Automatic control of the flow of bulk materials on conveyors. 3,139,217, 6–30–64, Cl. 222—57.

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Melli, Gino, to Maison Industrie Tecnico Chimiche Nelsen. Expansible single use dispensing container. 3,156,383, 11–10–64, Cl. 222—83.

Mellinger, Ernest F., to Ryan Aeronautical Co. Heat treatment of preformed finish-machined articles. 3,130,089, 4–21–64, Cl. 148—13.

Mellinger, Kenneth L., and J. C. Spenzer. Hot-top for ingot molds. 3,136,012, 6–9–64, Cl. 22—147.

Mellion, Frank, and J. Di Domenico, to Jo-Dee Corp. Dispensing device having a grooved dispensing wheel. 3,161,321, 12–15–64, Cl. 221—266.

Mello, William R., to The Warner & Swasey Co. Fluid pressure drive system. 3,120,157, 2–4–64, Cl. 91—408.

Mellon, Bob. Data handling. 3,139,319, 6–30–64, Cl. 346—34.

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Mellon, Joseph T., to Abrasive Products, Inc. Perforated abrasive disc. 3,121,298, 2–18–64, Cl. 51—195.

Melloni, Alfonso. Trailer for automobiles and device for boat support therein. 3,130,842, 4–28–64, Cl. 214—84.

Mellor, Erwin T., and J. P. Konsevich, to Emhart Corp. Shotgun gauge adapter. 3,156,995, 11–17–64, Cl. 42—77.

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Melnick, Joseph L., and C. Wallis, to Baylor Medical Foundation. Stabilization of viral vaccine and inactivation of adventitious tissue culture contaminants therein. 3,128,229, 4–7–64, Cl. 167—78.

Melnick, Joseph L., and C. Wallis, to Baylor Medical Foundation. Suppression of adventitious tissue culture contaminants with selected soluble salts of trivalent metal cations. 3,128,231, 4–7–64, Cl. 167—78.

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Melton, Edgar B., to Dominion Engineering Works Ltd. Fluid inlet for paper machine. 3,152 037, 10–6–64, Cl. 162—338.

Melton, Gladys A. Invalid diaper. 3,145,394, 8–25–64, Cl. 2—224.

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Melton, James O., and I. M. Carpenter, to The Geolograph Co. Well depth recorder. 3,124,410, 3–10–64, Cl. 346—49.

Melton, James O., and I. M. Carpenter, to The Geolograph Co. Well depth recorder and associated pen return. 3,129,997, 4–21–64, Cl. 346—33.

Melton, James O., and T. B. Wilkinson, to Jamco, Inc. Spacer for adjusting the length of a coil spring under compression. 3,135,507, 6–2–64, Cl. 267—20.

Melton, James O., and T. B. Wilkinson, to Jamco, Inc. Bearing assembly for pivotally interconnecting two members. 3,139,311, 6–30–64, Cl. 308—37.

Melton, James O., and T. B. Wilkinson, to Jamco, Inc. Spacer for insertion between adjacent convolutions of a coil spring. 3,141,661, 7–21–64, Cl. 267—60.

Melton, James O., and I. M. Carpenter, to The Geolograph Co. Cam operated pulsing device. 3,142,186, 7–28–64, Cl. 74—54.

Melton, James O., and T. B. Wilkinson, to Jamco, Inc. Ball and socket joint. 3,149,863, 9–22–64, Cl. 287—90.

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Meltzer, Robert I., and W. B. Lutz, to Warner-Lambert Pharmaceutical Co. 4-amino derivatives of methylpiperidines. 3,147,268, 9–1–64, Cl. 260—293.4.
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Meltzer, Robert J., to Bausch & Lomb Inc. Optical catheter. 3,136,310, 6–9–64, Cl. 128—2.
Meltzer, Robert J., to Bausch & Lomb Inc. Fiber optics cryptographic device. 3,145,247, 8–18–64, Cl. 88—1.
Meltzer, Robert J., to Bausch & Lomb Inc. Endoscope window. 3,145,249, 8–18–64, Cl. 88—1.
Meltzer, Theodore H., and H. J. Strauss, to The Electric Storage Battery Co. Process of contacting a microporous resin with a plasticizer and subsequently removing said plasticizer. 3,124,547, 3–10–64, Cl. 260—2.5.
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Merrill, Francis G., and P. J. Snyder, to Bell Telephone Laboratories, Inc. Equal power loss impedance matching branching network. 3,160,831, 12–8–64, Cl. 333—8.
Merrill, Gerald L., to Smith-Morris Corp. Process and means for hot metal forming. 3,126,623, 3–31–64, Cl. 29—421.
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Merrill, Lloyd. Magnetic pick-up game apparatus. 3,118,-669, 1–21–64, Cl. 273—1.
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Merrill, Rex R. Hinged barrel firearm with trigger safety means. 3,153,874, 10–27–64, Cl. 42—41.
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Merriman, Henry H. Inflatable tube hose fitting. 3,121,577, 2–18–64, Cl. 285—150.
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Merriman, Peter, to Dunlop Rubber Co. Ltd. Preparation of foamed polyurethane materials. 3,121,699, 2–18–64, Cl. 260—2.5.
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Merritt, Henry E. Reversing gear. 3,135,129, 6–2–64, Cl. 74—377.
Merritt, Hugh L., to Renfro Hosiery Mills, Inc. Knit ornamented fabric. 3,142,164, 7–28–64, Cl. 66—201.
Merritt, James F., to Radio Corp. of America. Bi-directional motor control circuit. 3,144,598, 8–11–64, Cl. 318—293.
Merritt, Thomas W., and C. A. Thomas, to Babson Bros. Co. Milk pipeline washing system. 3,119,401, 1–28–64, Cl. 134—57.
Merritt, Thomas W., and C. A. Thomas, to Babson Bros., Co. Milk filtering arrangement. 3,139,857, 7–7–64, Cl. 119—14.46.
Merryweather, John P., to Canadian Safety Fuse Co. Ltd. Generation of ice-nucleating crystals. 3,127,107, 3–31–64, Cl. 239—2.
Merten, Eugen, to Shell Oil Co. Method for forming seismic and other records. 3,143,946, 8–11–64, Cl. 95—73.
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Merten, Rudolf, to Farbenfabriken Bayer Aktiengesellschaft. Friedel-crafts catalysts of the reaction of monhydroxyl containing acetals with isocyanates new condensation products and a process for producing same. 3,120,502, 2–4–64, Cl. 260—77.5.

Merten, Rudolf, O. Bayer, W. Simmler, and G. Loew, to Farbenfabriken Bayer Aktiengesellschaft. Preparation of cellular polyurethane plastics. 3,134,741, 5–26–64, Cl. 260—2.5.

Merten, Rudolf, H. Holtschmidt, and G. Oertel, to Farbenfabriken Bayer Aktiengesellschaft. Phosphorous acid esters derived from transesterification of phosphite triesters with mono-, di-, and trisaccharides. 3,153,036, 10–13–64, Cl. 260—234.

Mertens, Andreas, to Rode & Dorrenberg. Machine for relief grinding tools. 3,138,903, 6–30–64, Cl. 51—225.

Mertens, Carl. Catalytic conversion plant for the continuous generation of gases of any kind out of hydrocarbons. 3,144,312, 8–11–64, Cl. 48—95.

Mertens, Johan J., to Onderzoekingsinstituut Research, N.V. Method for the manipulation of crimped yarns. 3,159,902, 12–8–64, Cl. 28—76.

Mertes, Thomas S., to Sun Oil Co. Process for increasing the catalytic activity of titanium trichloride. 3,134,642, 5–26–64, Cl. 23—87.

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Merz, Rudolf, to Crosman Arms Co., Inc. Gas powered gun. 3,119,384, 1–28–64, Cl. 124—11.

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Meserve, Richard J. Portable arm rest for motor vehicles. 3,118,704, 1–21–64, Cl. 297—194.

Mesh, William E., to International Business Machines Corp. Shaft coupling. 3,134,246, 5–26–64, Cl. 64—30.

Meshberg, Philip. Device and method for dispensing material under pressure of a propellent immiscible gas. 3,131,-834, 5–5–64, Cl. 222—399.

Meshberg, Philip. Directional applicator. 3,148,806, 9–15–64, Cl. 222—394.

Meshew, Warder S., to Ford Motor Co. Battery element burning method and machine. 3,138,860, 6–30–64, Cl. 29—471.1.

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Messer, Maurice. Transportable and convertible shelter. 3,122,152, 2–25–64, Cl. 135—1.

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Messina, Giuseppe, and N. de Pisapia, to L.I.R.C. Laboratori Italiani Di Ricerca Chimica. Process for the manufacture of polyester resins. 3,119,791, 1–28–64, Cl. 260—75.

Messina, Giuseppe, N. De Pisapia, L. Spano, and E. Condurelli, to L.I.R.C. Laboratori Italiani di Ricerca Chimica. Copolymers of styrene, dimethyl itaconate and acrylonitrile and a process for their manufacture. 3,156,741, 11–10–64, Cl. 260—881.

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Messina, Philip, and S. T. Phoa, to W. R. Grace, & Co. Drying of hydrazinium salt solutions for packaging. 3,118,-805, 1–21–64, Cl. 159—47.

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Messler, August. Furnaces for the production of mineral, especially basalt wool. 3,145,981, 8–25–64, Cl. 263—27.

Messler, Joseph P. Fishing lure. 3,120,074, 2–4–64, Cl. 43—35.

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Messmer, Edwin E. Machine for heat-treating superposed plies of plastic material. 3,153,608, 10–20–64, Cl. 156—515.

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Meston, Alexander M., to Imperial Chemical Industries Ltd. Process for the production of silarylene polymers. 3,139,-409, 6–30–64, Cl. 260—2.

Meszaros, George W., to Bell Telephone Laboratories, Inc. Regulated power conversion system. 3,152,296, 10–6–64, Cl. 321—18.

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Metcalfe, Frederick S., to Westinghouse Electric Corp. Air conditioning apparatus. 3,159,983, 12–8–64, Cl. 62—262.
Metcalfe, George R. A., and H. A. Brown, to The United Kingdom Atomic Energy Authority. Fuel element support structure and latching mechanism. 3,163,585, 12–29–64, Cl. 176—87.
Metcalfe, Kenneth A., and R. J. Wright, to The Commonwealth of Australia, care of the Secretary of the Department of Supply. Electrostatic printing. 3,140,945, 7–14–64, Cl. 96—1.
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Metivier, Jean, and H. Guivier, to Societe des Usines Chimiques Rhone-Poulenc. Herbicidal phenoxyacelamides. 3,141,757, 7–21–64, Cl. 71—2.5.
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Meurer, Siegfried, and K. H. Barner, to Maschinenfabrik Augsburg-Nurnberg AG. Means for cooling the exhaust port wall in a poppet valve internal combustion engine. 3,127,880, 4–7–64, Cl. 123—41.85.

Meusel, Jerome A., and R. A. Brunn, to The Baltimore Spice Co. Meat flavoring and coloring composition and preparation of same. 3,139,346, 6–30–64, Cl. 99—148.

Meusel, Jerome A., and R. A. Brunn, to The Baltimore Spice Co. Process for preparing frankfurters. 3,143,071, 9–8–64, Cl. 99—109.

Meuwissen, Edwin P. Jig. 3,150,452, 9–29–64, Cl. 33—197.

Meyer, Albert. Swimming pool cover. 3,144,665, 8–18–64, Cl. 4—172.

Meyer, Allen T., to Republic Industries, Inc. Door control device. 3,142,872, 8–4–64, Cl. 20—64.

Meyer, Amel R.: *See*—
Franz, Raymond J., Verbeek, and Meyer. 3,128,368.

Meyer, Andrew W.: *See*—
Tasker, Homer G., and Meyer. 3,143,646.

Meyer, Barthold F.: *See*—
Colautti, Albert J., and Meyer. 3,135,839.
Colautti, Albert J., and Meyer. 3,145,988.

Meyer, Betsey A.: *See*—
Meyer, Jack R. and B. A. 3,129,032.

Meyer, Burtis W., to General Electric Co. Arithmetic circuits. 3,147,372, 9–1–64, Cl. 235—176.

Meyer, Burtis W., and J. P. Huss, to United States of America, Air Force. Complementing magnetic amplifiers. 3,120,-614, 2–4–64, Cl. 307—88.

Meyer, Burtis W., and G. M. Miller, to General Electric Co. Signal recognition system. 3,147,343, 9–1–64, Cl. 179—1.

Meyer, Burton C.: *See*—
Glass, Marvin I., and Meyer. 3,120,079.
Glass, Marvin I., and Meyer. 3,120,958.
Glass, Marvin I., and Meyer. 3,130,518.
Glass, Marvin I., and Meyer. 3,132,864.

Meyer, Charles A., ½ to F. Seghetti. Cigarette extender. 3,133,545, 5–19–64, Cl. 131—10.

Meyer, Charles P., Jr.: *See*—
Osborn, Ralph C., and Meyer. 3,138,153.

Meyer, David, to E. W. Bliss Co. Aspirator burner. 3,132,-683, 5–12–64, Cl. 158—28.

Meyer, David A.: *See*—
Flygstad, Dean W., and Meyer. 3,123,793.
Kaluzny, John C., Meyer, and McPherson. 3,159,011.

Meyer, Delbert H., to Standard Oil Co. Preparation of trimellitic intermolecular double anhydride. 3,155,687, 11–3–64, Cl. 260—346.3.

Meyer, Delbert H., to Standard Oil Co. Trimellitic acid recovery and conversion to anhydride. 3,161,658, 12–15–64, Cl. 260—346.3.

Meyer, Donald K.: *See*—
Tulagin, Vsevolod, Kolb, and Meyer. 3,154,414.

Meyer, Donald K., A. G. Ostrem, and G. J. Pollman, to Minnesota Mining and Mfg. Co. Photographic apparatus. 3,130,655, 4–28–64, Cl. 95—1.7.

Meyer-Döring, Hans. Production of ascorbic acid esters. 3,132,154, 5–5–64, Cl. 260—343.7.

Meyer, Earl J. and R. F. Shotgun projectile having slits. 3,138,102, 6–23–64, Cl. 102—92.5.

Meyer, Edward M. Teaching apparatus using sound recording. 3,155,778, 11–3–64, Cl. 179—100.2.

Meyer, Edward S. Extractor. 3,142,899, 8–4–64, Cl. 29—275.

Meyer, Engelbert A., to General Motors Corp. Plastic molding clip. 3,130,822, 4–28–64, Cl. 189—88.

Meyer, Engelbert A., to General Motors Corp. Sheet metal nut with sealer escapement ports. 3,137,197, 6–16–64, Cl. 85—32.

Meyer, Eugen. Safety razor having skin-stretching and guiding means. 3,138,865, 6–30–64, Cl. 30—34.

Meyer, Ferdinand: *See*—
Knobloch, Horst E., Meyer, and Stastny. 3,117,941.

Meyer, Ferdinand, H. E. Knobloch, H. Freyschlag, and R. D. Rauschenbach, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of expanded fine-bored and lightweight bands from thermoplastic synthetic resins. 3,154,605, 10–27–64, Cl. 264—53.

Meyer, Francis B. Porch trailer. 3,131,001, 4–28–64, Cl. 296—27.

Meyer, Fred R., ¼ to K. E. Battaglia, ¼ to P. T. Kavanaugh, and ¼ to R. G. Farnis. Portable outdoor barbecue grill. 3,134,320, 5–26–64, Cl. 99—340.

Meyer, Frederick J.: *See*—
Humiston, Charles G., Meyer, and Kenaga. 3,130,117.

Meyer, Garson. One piece bushing and mounting plate for embedment in soft materials. 3,124,393, 3–10–64, Cl. 308—22.

Meyer, Geo. J., Mfg. Co.: *See*—
Calhoun, Fredrick L., Williams, and Wyman. 3,133,640.
Carter, Sidney T. 3,134,707.
Carter, Sidney T. 3,142,374.
Carter, Sidney T. 3,145,825.
Meyer, George L. N. 3,153,478.
Meyer, George L. N., and Spies. 3,121,489.

Meyer, George L. N., to Geo. J. Meyer Mfg. Co. Air modulated drive means. 3,153,478, 10–20–64, Cl. 198—209.

Meyer, George L. N., and R. H. Spies, to Geo. J. Meyer Mfg. Co. Bottle unloading apparatus. 3,121,489, 2–18–64, Cl. 198—25.

Meyer, Gerhard: *See*—
Siggel, Erhard, Meyer, and Rösener. 3,117,834.
Siggel, Erhard, Meyer, and Rösener. 3,130,004.
Siggel, Erhard, Meyer, and Rösener. 3,130,005.
Siggel, Erhard, Meyer, Rösener, and Helmut. 3,130,186.

Meyer, Gerson: *See*—
Freedman, Ely, Bernard, Meyer, and Mayer. 3,118,176.

Meyer, Gilbert F., to Machinery and Welder Corp. Gas cup assembly for welding gun. 3,128,370, 4–7–64, Cl. 219—130.

Meyer, Hans: *See*—
Dolman, Henry J., and Meyer. 3,123,510.
Smith, Geoffrey, and Meyer. 3,147,696.

Meyer, Hans. Distance measuring devices. 3,119,187, 1–28–64, Cl. 33—147.

Meyer, Hans J. G., J. Volger, and R. Thees, to North American Philips Co., Inc. Dry shaving apapratus comprising a shaving head with a cooling system. 3,141,239, 7–21–64, Cl. 30—34.

Meyer, Hans U.: *See*—
Häusermann, Heinrich, and Meyer. 3,141,879.

Meyer, Harold F., to Miles Laboratories, Inc. Means and method of making multi-test indicator. 3,127,281, 3–31–64, Cl. 117—4.

Meyer, Harold J. Cellulosic containers. 3,138,316, 6–23–64, Cl. 229—16.

Meyer, Henry F., to The Monarch Machine Tool Co. Programmer. 3,122,310, 2–25–64, Cl. 234—80.

Meyer, Herbert W. H., Jr.: *See*—
Schutze, Henry G., Thompson, Meyer, and Pennington. 3,149,674.

Meyer, Jack R. and B. A. Portable lectern. 3,129,032, 4–14–64, Cl. 297—163.

Meyer-Jagenberg, Gunther, to Jagenberg-Werke Akt.-Ges. Liquid-tight container of paper, cardboard and like carton-forming materials. 3,127,082, 3–31–64, Cl. 229—7.

Meyer, James R. Magnetic conveyance and transfer system for photographic processing. 3,156,173, 11–10–64, Cl. 95—94.

Meyer, John C., to Jonathan Mfg. Co. Quick disconnect slide for drawers and the like. 3,129,981, 4–21–64, Cl. 308—3.6.

Meyer, Kenneth A.: *See*—
Giovannetti, Angelo, Jr., Himmelright, and Meyer. 3,158,172.

Meyer, Kenneth H., and P. Carr, to Flo-Tork, Inc. Actuator. 3,156,160, 11–10–64, Cl. 92—13.

Meyer, Kuno: *See*—
Fürst, Andor, Meier, Meyer, Gavilanes, and Rees. 3,148,-182.

Meyer, Kurt, and G. von Struve, to Metallgesellschaft Aktiengesellschaft. Apparatus for the roasting of pellets. 3,160,-402, 12–8–64, Cl. 263—28.

Meyer, Leo F.: *See*—
Hay, Russell G., Meyer, and Selwitz. 3,129 255.
Hay, Russell G., Meyer, and Selwitz. 3,129,256.
Hay, Russell G., Meyer, and Selwitz. 3,134,822.

Meyer, Louis J.: *See*—
Else, Robert K., and Meyer. 3,160,714.

Meyer Mfg. Co.: *See*—
Batterton, Elmo L., Roecker, and Dodson. 3,156,344.

Meyer, Maurice A., to Laboratory for Electronics, Inc. Frequency detection system including paralleled inverse characteristic phase shifters. 3,123,769, 3–3–64, Cl. 324—82.

Meyer, Norbert J., Sr., to General Electric Co. Fluid seal for turbomachinery. 3,132,840, 5–12–64, Cl. 253—39.

Meyer, Otto. Sealing means for high pressure valves. 3,130,-952, 4–28–64, Cl. 251—175.

Meyer, Richard: *See*—
Sweeney, Alexander, and Meyer. 3,136,384.

Meyer, Robert B., and S. A. Findley, to Kingston Products Corp. Lamp socket. 3,139,316, 6–30–64, Cl. 339—188.

Meyer, Robert E., to United States of America, Navy. Simplified primary fuel system. 3,153,324, 10–20–64, Cl. 60—39.72.

Meyer, Romond F.: *See*—
Meyer, Earl J. and R. F. 3,138,102.

Meyer, Ronald E., to Remwood Chemical Co. Unitary control device for detecting the minimum levels of concentration in a multiplicity of caustic washing solutions. 3,134,-070, 5–19–64, Cl. 324—30.

Meyer, Rudolf. Immersion vibrator for compacting concrete. 3,152,790, 10–13–64, Cl. 259—1.

Meyer, Rudolf X.: *See*—
Bush, Vannevar, Scherer, and Meyer. 3,141,437.
Clauser, Milton U., and Meyer. 3,162,398.

Meyer, Rudolf X., to The Aerospace Corp. Hypervelocity propulsion arrangement. 3,126,789, 3–31–64, Cl. 89—8.
Meyer, Rudolf X., to Space Technology Laboratories, Inc. Propulsion method and apparatus. 3,128,595, 4–14–64, Cl. 60—35.3.
Meyer, Rudolf X., to Thompson Ramo Wooldridge Inc. Magnetohydrodynamic voltage generator. 3,155,850, 11–3–64, Cl. 310—11.
Meyer, Saul, to Honeywell Inc. Alarm sensing. 3,163,849, 12–29–64, Cl. 340—146.2.
Meyer, Sidney, to A. S. Epple, Inc. Cloth bolt handling device. 3,162,390, 12–22–64, Cl. 242—55.54.
Meyer, Vincent E.: *See*—
Dahn, Raymond C., Jr., Langan, and Meyer. 3,155,750.
Meyer, Warren H. Device for raising sunken ships. 3,143,-096, 8–4–64, Cl. 114—52.
Meyer, Werner, and H. Elsner, to Olympia Werke A.G. Punch-card programmer. 3,158,419, 11–24–64, Cl. 339—18.
Meyer, William: *See*—
Drumm, Joseph T., and Meyer. 3,155,370.
Meyerand, Russell G., Jr.: *See*—
Lary, Edmund C., Meyerand, and Bullis. 3,139,551.
Lary, Edmund C., Meyerand, and Salz. 3,155,858.
Salz, Frank, and Meyerand. 3,163,798.
Meyerer, Paul, to Siemens & Halske Aktiengesellschaft. Electron collector for trvaelling wave tubes and the like. 3,153,-743, 10–20–64, Cl. 315—5.38.
Meyerhoefer, Carl, to J. Sassano. Squeegee suction cleaner. 3,118,165, 1–21–64, Cl. 15—402.
Meyerhoefer, Carl E., to The Regina Corp. Vacuum cleaner nozzle. 3,137,884, 6–23–64, Cl. 15—339.
Meyerhof, Walter E.: *See*—
Jones, Stanley B., Seevers, and Meyerhof. 3,133,195.
Meyerhoff, Alfred, and T. Csakvari, to Westinghouse Electric Corp. Semiconductor crystal slicing device. 3,117,-398, 1–14–64, Cl. 51—73.
Meyerhoff, Leonard, to himself and S. A. Meyerhoff, d.b.a. Eastern Research Group. Device for controlling ship movement. 3,137,265, 6–16–64, Cl. 115—12.
Meyerhoff, Leonard, to Eastern Research Group. Propulsion systems for water borne craft. 3,143,097, 8–4–64, Cl. 114—66.5.
Meyerhoff, Stanley A.: *See*—
Meyerhoff, Leonard. 3,137,265.
Meyerink, Theo A. J.: *See*—
Bigot, Johan A., Meyerink, and Revallier. 3,119.814.
Meyer-Jagenberg, Gunther, to Jagenberg-Werke Akt.-Ges. Conical container of paper, cardboard or similar carton-forming material and method of making same. 3,118,351, 1–21–64, Cl. 93—39.1.
Meyer-Jagenberg, Gunter, to Jagenberg-Werke AG. Pressure actuated disk brake. 3,160,238, 12–8–64, Cl. 188—152.
Meyers, Albert I.: *See*—
Kerschner, Paul M., and Meyers. 3,131,151.
Meyers, Albert I., to Board of Supervisors of Louisiana State University and Agricultural and Mechanical College. α,w-bis(3-alkylidene-5.5-dialkyl-1-pyrrolinyl-2)alkanes and ethers. 3,157,672, 11–17–64, Cl. 260—326.5.
Meyers, Clarence L., & Co., Inc.: *See*—
Meyers, Gordon E. 3,123,888.
Meyers, Douglas C., to Shell Oil Co. Graphical readout system for records. 3,136,886, 6–9–64, Cl. 235—61.9.
Meyers, Douglas C., to Shell Oil Co. Mandrel for gas lift valves. 3,160,113, 12–8–64, Cl. 103—232.
Meyers, Douglas C., and C. L. Barr, to Shell Oil Co. Low-temperature dehydration of well fluids. 3,159,473, 12–1–64, Cl. 62—12.
Meyers, Frederick C. Butane lighter construction. 3,161,-034, 12–15–64, Cl. 67—7.1.
Meyers, George L., to American Can Co. Carton. 3,142,430, 7–28–64, Cl. 229—22.
Meyers, Gordon E., to Clarence L. Meyers & Co., Inc. Yarn texturing device. 3,123,888, 3–10–64, Cl. 28—1.
Meyers, Harold S., to Waldorf Paper Products Co. Receptacle encircling band. 3,126,660, 3–31–64, Cl. 40—312.
Meyers, Harold S., to Waldorf Paper Products Co. Dispensing package. 3,127,054, 3–31–64, Cl. 221—25.
Meyers, Harold S., to Waldorf Paper Products Co. Sliced meat package. 3,137,435, 6–16–64, Cl. 229—40.
Meyers, John S.: *See*—
Terry, Samuel M., and Meyers. 3,122,360.
Meyers, Joseph, 25% to McCulloch Investments, 25% to C. L. and L. C. Wolfe, 10% to R. L. Cooper, and 40% to J. Meyers. Tire deflation device and system. 3,155,938, 11–3–64, Cl. 340—58.
Meyers, Martin B.: *See*—
Graber, Robert P., and Meyers. 3,123,600.
Graber, Robert P., and Meyers. 3,123,624.
Graber, Robert P., and Meyers. 3,133,058.
Graber, Robert P., and Meyers. 3,145,199.
Meyers, Norman H.: *See*—
Bertuch, Charles J., and Meyers. 3,145,310.
Meyers, Paul: *See*—
Bogoff, Stanley, and Meyers. 3,134,089.
Meyers, Peter G. Tool cooling apparatus. 3,137,184, 6–16–64, Cl. 77—55.
Meyers, Vernon J., to United States of America, Navy. Gain control in response to ambient noise level. 3,160,707, 12–8–64, Cl. 179—1.
Meyerson, Leonard. Payroll tax computer device. 3,152,756, 10–13–64, Cl. 235—88.
Meyerson, Stanley. Terminal link for watch bands. 3,123,-882, 3–10–64, Cl. 24—265.
Meystre, Charles: *See*—
Wettstein, Albert, Anner, and Meystre. 3,118,880.
Wettstein, Albert, Vischer, Meystre, Kahnt, and Neher. 3,118,920.
Meystre, Charles, A. Wettsein, O. Jeger, G. Anner, K. Heusler, and P. Wieland, to Ciba Corp. Process for the manufacture of 18:20-lactones of the pregnane series. 3,121,-080, 2–11–64, Cl. 260—239.57.
Miale, Goliardo: *See*—
Noiles, Douglas G., Miale, and Goebel. 3,121,448.
Miale, Joseph N.: *See*—
Coonradt, Harry L., and Miale. 3,152,980.
Coonradt, Harry L., and Miale. 3,155,604.
Miale, Joseph N., and P. B. Weisz, to Socony Mobil Oil Co., Inc. Selective combustion. 3,136,713, 6–9–64, Cl. 208—113.
Miami Margarine Co., The: *See*—
Fritsche, Richard K. 3,144,343.
Miane, Marcel: *See*—
Gavreau, Vladimir, Calaora, and Miane. 3,118,096.
Gavreau, Vladimir, Calaora, and Miane. 3,159,778.
Miano, Salvatore V., and F. M. Africano, to The Bendix Corp. Adjustable compensator mechanism for nonlinear rotary motion. 3,121,339, 2–18–64, Cl. 74—393.
Micafil A.-G.: *See*—
Baud, Albert. 3,146,968.
Stephanides, Herbert. 3,117,275.
Micciche, Frank. Portable desk. 3,121,591, 2–18–64, Cl. 297—153.
Miccio, Arthur L. Hand support for a horn. 3,141,369, 7–21–64, Cl. 84—387.
Miccioli, Bruno R., to Union Carbide Corp. Production of chromium lamella on a molten supporting vehicle. 3,131,049, 4–28–64, Cl. 75—.5.
Micek, Richard. Self-aligning ball valves. 3,121,234, 2–18–64, Cl. 4—57.
Miceli, Joseph B. Hook and eye fastening device. 3,159,843, 12–8–64, Cl. 1—325.
Michael, Elmer W.: *See*—
Clausi, Adolph S., Vollink, and Michael. 3,121,637.
Michael, Harlan G., to Collins Radio Co. Radio receiver input protective self-actuated variable attenuator. 3,143,-706, 8–4–64, Cl. 325—362.
Michael, Harold J., to North American Aviation, Inc. Metal treatment in molten alkali-barium-boro-silicate glass and composition. 3,158,515, 11–24–64, Cl. 148—20.
Michael, Malden W.: *See*—
De Baun, Robert M., and Michael. 3,147,092.
Innes, William B., and Michael. 3,118,845.
Michaels Art Bronze Co., Inc., The: *See*—
Michaels, Frank L. 3,139,652.
Michaels, Frank L. 3,150,422.
Michaels, Bruno, to Bell & Howell Co. Reel spindle. 3,121,-543, 2–18–64, Cl. 242—68.1.
Michaels, Bruno, to Bell & Howell Co. Automatic film threading device. 3,122,965, 3–3–64, Cl. 88—17.
Michaels, Bruno, to Bell & Howell Co. Self-threading projector. 3,137,200, 6–16–64, Cl. 88—17.
Michaels, Edwin B., to Stamford Chemical Industries, Inc. Substantially neutral magnesium salt of a phosphoric acid ester of oxethylated nonyl phenol. 3,117,152, 1–7–64, Cl. 260—461.
Michaels, Edwin B., to Stamford Chemical Industries, Inc. Dry cleaning solvent compositions. 3,162,604, 12–22–64, Cl. 252—171.
Michaels, Ernest E., to Chicago Bridge & Iron Co. Method of forming a plastic spray coated floating roof. 3,158,667, 11–24–64, Cl. 264—45.
Michaels, Frank L., to The Michaels Art Bronze Co., Inc. Astragal. 3,139,652, 7–7–64, Cl. 20—68.
Michaels, Frank L., to The Michaels Art Bronze Co., Inc. Astragal for double door or single door. 3,150,422, 9–29–64, Cl. 20—68.
Michaels, Jerome L.: *See*—
Postle, Robert S., Michaels, and Henderson. 3,132,825.
Michaels, Raymond J., Jr.: *See*—
Zaugg, Harold E., De Net, and Michaels. 3,122,551.
Zaugg, Harold E., De Net, and Michaels. 3,135,770.
Zaugg, Harold E., De Net, and Michaels. 3,152,178.
Zaugg, Harold E., De Net, and Michaels. 3,156,688.
Michaels, Sidney, to FMC Corp. Apparatus for sorting articles. 3,148,783, 9–15–64, Cl. 214—11.
Michaelson, Stanley D., to Kennecott Copper Corp. Idler structure for belt conveyors. 3,138,240, 6–23–64, Cl. 198—192.
Michaelson, Stanley T.: *See*—
Levey, Maurice, and Michaelson. 3,153,579.
Michaelson, William, to General Electric Co. Compensated vertical sweep circuit. 3,147,397, 9–1–64, Cl. 315—27.
Michal, Edward B.: *See*—
Dempsey, Martin E., and Michal. 3,134,861.
Michal, James, to Storkline Corp. Baby crib. 3,129,439, 4–21–64, Cl. 5—93.
Michal, Joseph, and R. O. Rippere, to Bell Telephone Laboratories, Inc. Communication channel signalling arrangement. 3.122,612, 2–25–64, Cl. 179—27.
Michalak, Stanley J., Jr., to Mechanical Power Corp. Power cylinder. 3,135,171, 6–2–64, Cl. 92—14.
Michalchik, Michael, to Radio Corp. of America. Method of preparing lithographic printing plates. 3,133,498, 5–19–64, Cl. 101—149.2.

Michalec, George W., to General Precision, Inc. Multiturn stop. 3,147,629, 9–8–64, Cl. 74—10.2.
Michalek, Charles C., to The Duplan Corp. Apparatus for and method of producing relaxed packages of textured yarn. 3,147,579, 9–8–64, Cl. 57—34.
Michalik, Anthony J., to Chain Belt Co. Roller chain with reserve plates. 3,118,317, 1–21–64, Cl. 74—250.
Michalko, Edward, to Universal Oil Products Co. Reactivating lead-contaminated catalysts. 3,117,936, 1–14–64, Cl. 252—413.
Michalko, Edward, to Universal Oil Products Co. Method for reactivating lead-contaminated catalysts. 3,121,693, 2–18–64, Cl. 252—412.
Michalko, Edward, to Universal Oil Products Co. Regeneration of spent exhaust gas conversion catalysts with sulfur trioxide. 3,121,694, 2–18–64, Cl. 252—415.
Michalski, Maksymilian A., to American Speedlight Corp. Carrier current control system for electronic flash units. 3,119,047, 1–21–64, Cl. 315—177.
Michalski, Raymond, and T. R. Newman, to Nalco Chemical Co. Treatment of Fourdrinier wire. 3,140,222, 7–7–64, Cl. 162—199.
Michel, Charles H., and W. W. Williams; said Michel assor. to W. W. Williams. Miniature golf course. 3,138,387, 6–23–64, Cl. 273—176.
Michel, Donald P.: *See*—
Irvine, James E., and Michel. 3,149,794.
Michel, Donald P., to The Bauer Bros. Co. Refiner plate. 3,128,055, 4–7–64, Cl. 241—298.
Michel, Donald P., and H. W. Steiniger, to The Bauer Bros. Co. Refiner construction. 3,129,898, 4–21–64, Cl. 241—256.
Michel, Jan V. Mooring device for V.T.O.L. aircraft. 3,151,-826, 10–6–64, Cl. 244—115.
Michel, John W., to United States of America, Atomic Energy Commission. Control rod positioned by fluid flow through the rod channel. 3,123,532, 3–3–64, Cl. 176—36.
Michel, Joseph H.: *See*—
McMahon, John F., Jr., and Michel. 3,130,031.
Micheli, Robert A., to The Dow Chemical Co. N,N′-mercuribisacrylamide compounds. 3,134,757, 5–26–64, Cl. 260—80.3.
Michelin & Cie: *See*—
Boussu, Gabriel X. R., and Travers. 3,131,744.
Michell, Jerome N., to W. R. Frank Packaging Engineers, Inc. Aerosol container adapter collar. 3,156,382, 11–10–64, Cl. 222—182.
Michels, Peter, to Continental Gummi-Werke Aktiengesellschaft. Conveyor belt structure. 3,144,930, 8–18–64, Cl. 198—193.
Michelson, Yigal: *See*—
Leydig, Clyde O., and Michelson. 3,157,016.
Michener, Aubrey W., Jr.: *See*—
Hayworth, Curtis B., Hutzler, Sobel, and Michener. 3,160,473.
Karsay, Bela I., and Michener. 3,123,442.
Michener, William E., to Vilter Mfg. Corp. Reciprocating piston type gas compressor. 3,131,856, 5–5–64, Cl. 230—238.
Michiel, Joseph. Dispensing device for merchandise. 3,122,-236, 2–25–64, Cl. 206—44.12.
Michigan Brass Co. *See*—
Harty, Millard F., Jr.: 3,129,606.
Michigan Carton Co.: *See*—
Coleman, Donald G. 3,141,391.
Michigan Chemical Corp.: *See*—
Morton, John R. 3,152,073.
Nametz, Richard C. 3,119,666.
Michigan-Dynamics, Inc.: *See*—
Darnell, Rex C. 3,156,119.
Michigan Plating & Stamping Co.: *See*—
Schantz, Donald H. 3,162,586.
Michigan Tool Co.: *See*—
Brady, Samuel G., and Dralle. 3,121,297.
Dralle, Wilhelm. 3,124,907.
McCardell, Willard B. 3,121,352.
Mickas, George. 3,157,091.
Moncrieff, Alexander D. F. 3,146,640.
Michigan Wheel Co.: *See*—
Lorenz, Eldon L. 3,146,612.
Michl, Edward F., to General Electric Co. Decorative laminates. 3,135,643, 6–2–64, Cl. 161—79.
Michl, Jiri, to Ustav ser a ockovacich Latek. Tissue culture medium. 3,128,228, 4–7–64, Cl. 167—78.
Michler, Rudolf, to Siemens & Halske Aktiengesellschaft. Brushless variometer for an extended frequency range. 3,157,849, 11–17–64, Cl. 336—150.
Michnoff, David N. Traction increasing device for resilient tires. 3,117,613, 1–14–64, Cl. 152—228.
Micien, Rudolf. Programme-controlled automatic casting and maturing field for gas silicate manufacturing plants. 3,124,-234, 3–10–64, Cl. 198—127.
Micillo, Carl, to Grumman Aircraft Engineering Corp. Electroplating from an organic electrolytic solution. 3,131,134, 4–28–64, Cl. 204—14.
Mickas, George, to Michigan Tool Co. Feed mechanism. 3,157,091, 11–17–64, Cl. 90—1.
Mickelson, Robert L., to Vanadium Corp. of America. Inoculating alloy. 3,137,570, 6–16–64, Cl. 75—124.
Mickey, Carl F. and L. E. Compartmented truck body with roll-up doors. 3,135,544, 6–2–64, Cl. 296—24.

Mickey, Lawrence E.: *See*—
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Middendorf, Karl H., to The Prescon Corp. Concrete building construction. 3,152,421, 10–13–64, Cl. 50—128.
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Middleton, James M., and P. G. McIlroy, to The British Steel Castings Research Association. Mould paint. 3,146,-113, 8–25–64, Cl. 106—38.23.
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Middleton, William J., to E. I. du Pont de Nemours and Co. Fluoroalkyl-thiirane and compounds and their preparation. 3,136,781, 6–9–64, Cl. 260—327.
Middleton, William J., to E. I. du Pont de Nemours and Co. Compositions containing hydrolyzed vinyl ester homopolymers or vinyl ester/ethylene copolymers and selected fluoroalcohols. 3,153,004, 10–13–64, Cl. 260—33.4.
Middleton, William J., to E. I. du Pont de Nemours and Co. Selected esters of fluorodithiocarboxylic acids and their preparation. 3,154,571, 10–27–64, Cl. 260—455.
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Clemmer, Wallace L. 3,142,469.
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Milazzo, Joseph S., D. I. Randall, and J. H. Shown, to General Aniline & Film Corp. Mixed acid nitration of dispersions of crude dibenzanthrone. 3,127,421, 3–31–64, Cl. 260—353.
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Mildner, Raymond C. Co-axial cable having inner and outer conductors corrugated helically in opposite directions. 3,121,136, 2–11–64, Cl. 174—28.
Mildner, Raymond C. Cables for transmitting high-frequency currents. 3,130,256, 4–21–64, Cl. 174—28.
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Miles, Charles C., Jr., and W. T. Ingram, to Chrysler Corp. Window guide mechanism. 3,151,859, 10–6–64, Cl. 268—126.
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Miles, Gilbert D., to Colgate-Palmolive Co. Dispensing applicator. 3,133,309, 5–19–64, Cl. 15—565.
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Militano, Vincent, and H. Fleischer, to Finkel Outdoor Products, Inc. Motor driven winding mechanism. 3,129,715, 4–21–64, Cl. 135—20.
Militello, James V., to American Allsafe Co. Cold weather attachment for hard head gear. 3,146,462, 9–1–64, Cl. 2—3.
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Millar, Raymond I. Magnetic target game for iron containing projectile. 3,147,976, 9–8–64, Cl. 273—106.5.
Millard, Angus W., ½ to Drallim Industries Ltd. Fluid switching valves. 3,128,788, 4–14–64, Cl. 137—595.
Millard, Glenn R. Tape folding accessory for tape printing machine. 3,157,162, 11–17–64, Cl. 120—32.
Millard, Junius W. : *See*—
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Millenaar, Richard J., to Oscar Mayer & Co., Inc. Sausage linking machine. 3,152,358, 10–13–64, Cl. 17—34.
Millenaar, Richard J., E. G. Blair, deceased (by M. T. Blair, executrix), to Oscar Mayer & Co., Inc. Sausage link ejector apparatus. 3,152,359, 10–13–64, Cl. 17—34.
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Miller, Albert G. Shoe cleaner. 3,126,565, 3–31–64, Cl. 15—210.
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Miller, Alfred L., to Celanese Corp. of America. Composition comprising N-substituted amide and cellulose ester. 3,151,089, 9–29–64, Cl. 260—17.
Miller, Allen N. Double-barreled single-trigger firearm. 3,142,925, 8–4–64, Cl. 42—42.
Miller, Anthony G., to Bite-O-Lite. Fishing device. 3,148,-473, 9–15–64, Cl. 43—17.
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Mann, Friedrich H., and Miller. 3,159,910.
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Miller, Arthur, to Hewlett Packard Co. Stylus apparatus. 3,147,063, 9–1–64, Cl. 346—139.
Miller, Arthur E., to Scott Aviation Corp. Demand valve. 3,145,721, 8–25–64, Cl. 137—64.
Miller, Arthur J., to Carrier Corp. Method of making vibration damped turbo machinery. 3,131,461, 5–5–64, Cl. 29—156.8.
Miller, Arthur J., to Du Art Film Laboratories, Inc. Fiber optics film printing systems. 3,163,080, 12–29–64, Cl. 88—24.
Miller, Avy L. Continuous flow fluid heater control. 3,118,-600, 1–21–64, Cl. 236—23.
Miller, Avy L. Gas burner control. 3,118,602, 1–21–64, Cl. 236—80.
Miller, Avy L. Flow regulator for a heater. 3,134,366, 5–26–64, Cl. 122—407.
Miller, Avy L. High skim rate swimming pool filter. 3,143,-499, 8–4–64, Cl. 210—169.
Miller, Avy L. Fluid heater. 3,160,145, 12–8–64, Cl. 122—367.
Miller, Ben R. : *See*—
Sego, George E., and Miller. 3,150,890.
Miller, Bennett : *See*—
Remonte, John. 3,124,525.
Miller, Bernard, to American Cyanamid Co. S-(1,2-dihaloalkenyl) O,O-dialkyl phosphorodithioates and method for their preparation. 3,127,435, 3–31–64, Cl. 260—461.
Miller, Bernard J., to St. Regis Paper Co. Paperboard tray. 3,162,350, 12–22–64, Cl. 229—34.

Miller, Bertrand J., to Zenith Radio Corp. Television receiver. 3,129,285, 4–14–64, Cl. 178—7.82.
Miller, Billy L.: *See*—
Pritchett, Freeman L., and Miller. 3,122,001.
Miller, Bob C., E. L. Graham, Jr., and J. D. Walter, to United States of America, Navy. Multi-sting Mach number sensor. 3,160,005, 12–8–64, Cl. 73—181.
Miller Brewing Co.: *See*—
Wendt, Kenneth W., and Krabbe. 3,123,475.
Miller Brothers: *See*—
Miller, Norman K. 3,133,167.
Miller, Cecil V., and R. M. Whitson, ⅓ to J. C. and B. Nees. Rotary pop-up sprinkler. 3,131,867, 5–5–64, Cl. 239—97.
Miller, Charles A., to Parke, Davis & Co. Alpha-methyl-alpha-phenyl beta-ethylsuccinimide. 3,162,648, 12–22–64, Cl. 260—326.5.
Miller, Charles D., to J. I. Case Co. Agricultural implement. 3,156,124, 11–10–64, Cl. 74—125.5.
Miller, Charles E.: *See*—
Mayer, Alfred A., C. E. Miller, and C. O. Hamden. 3,125,924.
Miller, Charles E., to Olin Mathieson Chemical Corp. Plastic cartridge. 3,162,124, 12–22–64, Cl. 102—42.
Miller, Charles J., Jr., to The Ohio Brass Co. Aerial lifts for energized line working. 3,159,240, 12–1–64, Cl. 182—2.
Miller, Charles R.: *See*—
Blackman, Arthur W., Jr., and Miller. 3,144,751.
Miller, Charles R., to United Aircraft Corp. Rocket motor with consumable casing. 3,127,739, 4–7–64, Cl. 60—35.6.
Miller, Charley W., to Westinghouse Electric Corp. Transformer structures. 3,151,304, 9–29–64, Cl. 336—58.
Miller, Christian F., to Formold Plastics, Inc. Dispenser and valves for same. 3,130,877, 4–28–64, Cl. 222—207.
Miller, Christian F., to Formold Plastics, Inc. Dispenser and valves for same. 3,162,334, 12–22–64, Cl. 222—207.
Miller, Clarence L., Jr.: *See*—
Boyer, Charles D., and Miller. 3,150,015.
Perry, Paul E., Miller, and Piasecki. 3,138,492.
Miller, Clarence W., and J. R. Haller, to D. J. Murray Mfg. Co. Web roll winder shaft stripper. 3,131,880, 5–5–64, Cl. 242—55.
Miller, Dale W. Sewer inlet form construction. 3,123,884, 3–10–64, Cl. 25—118.
Miller, Daniel B. Telephone cable tap. 3,138,653, 6–23–64, Cl. 174—44.
Miller, Daniel B. Terminal. 3,139,314, 6–30–64, Cl. 339—97.
Miller, David B.: *See*—
Early, Harold C., and Miller. 3,159,464.
Miller, David W.: *See*—
Morck, Roland A., Harris, and Miller. 3,158,486.
Miller, Donald E.: *See*—
Miller, Nicholas. 3,135,841.
Miller, Donald L., ⅓ to R. G. Miller. Nestable support for container. 3,123,257, 3–3–64, Cl. 222—185.
Miller, Donald L., and L. W. Vinther. Variable pitch propeller for small boats. 3,148,735, 9–15–64, Cl. 170—160.32.
Miller, Dorothy H. Stacked measuring cup. 3,134,264, 5–26–64, Cl. 73—429.
Miller, Dye O., Jr.: *See*—
Wandel, Oscar A., and Miller. 3,152,335.
Miller, Earl W., to International Business Machines Corp. Deskewing using last bit of a byte. 3,130,392, 4–21–64, Cl. 340—174.1.
Miller, Earle C.: *See*—
Copian, Louis P., Rivers, and Miller. 3,145,670.
Miller, Earle C., to Riley Stoker Corp. Steam generating unit. 3,146,759, 9–1–64, Cl. 122—478.
Miller, Earle C., to Riley Stoker Corp. Electrically ignited pilot burner. 3,150,710, 9–29–64, Cl. 158—115.
Miller, Edgar S.: *See*—
Glickman, Samuel A., and Miller. 3,148,174.
Glickman, Samuel A., Miller, and Buc. 3,158,589.
Miller, Edmund L.: *See*—
Geier, Leo J., and Miller. 3,137,070.
Miller, Edward B.: *See*—
Pachmayr, Frank A., Miller, and Huskey. 3,147,562.
Miller, Edwin A., to Texas Instruments Inc. Composite metallic electrode material and electrodes made therefrom. 3,143,684, 8–4–64, Cl. 313—355.
Miller, Eldon, Inc.: *See*—
Miller, Eldon R. 3,151,835.
Miller, Eldon D., Jr., to Harbison-Walker Refractories Co. Alumina refractories. 3,121,640, 2–18–64, Cl. 106—68.
Miller, Eldon D., Jr., to Harbison-Walker Refractories Co. Assembly for forming refractory tubes. 3,123,886, 3–10–64, Cl. 25—126.
Miller, Eldon R., to Eldon Miller, Inc. Safety and sanitary valves. 3,151,835, 10–6–64, Cl. 251—63.
Miller Electric Mfg. Co.: *See*—
Mulder, Allen C. 3,160,783.
Willecke, Gerhard K. 3,140,458.
Willecke, Gerhard K., and Corrigall. 3,150,312.
Miller, Elmer C.: *See*—
Welty, Richard O., and Miller. 3,138,950.
Miller, Elmer L., T. R. Embach, and H. O. Folkins, to The Pure Oil Co. Isomerization process and catalyst. 3,150,206, 9–22–64, Cl. 260—683.75.
Miller, Emery B.: *See*—
Staiger, Roger P., Schlaudecker, and Miller. 3,123,631.
Miller, Eugene J., Jr., to Armour and Co. Method of preparing dialkyl esters of sulfofatty acids. 3,160,645, 12–8–64, Cl. 260—400.
Miller, Floyd C. Quick carburetor cleaner. 3,135,273, 6–2–64, Cl. 134—94.
Miller, Francis A., to Key Equipment Co., Inc. Pod separator. 3,143,212, 8–4–64, Cl. 209—85.
Miller, Frank, to Air Products and Chemicals, Inc. Method of preparing monoquaternary nitrogen compounds. 3,150,138, 9–22–64, Cl. 260—268.
Miller, Frank B., Jr.: *See*—
Zimmerman, John A., Jr., and Miller. 3,143,385.
Miller, Frank E., Jr., and R. A. Atkinson, Jr., to Owens-Illinois Glass Co. Apparatus for handling workpieces. 3,147,847, 9–8–64, Cl. 198—131.
Miller, Frank R., and H. M. Lang, to Orthodontists' Research & Mfg. Corp. Orthodontic appliance. 3,119,182, 1–28–64, Cl. 32—14.
Miller, Fred T.: *See*—
Schneider, Fred, and Miller. 3,155,538.
Miller, Frederick E., to Somerville Industries Ltd. Double die-cutting. 3,128,681, 4–14–64, Cl. 93—58.
Miller, Gene D. Method of training dogs and collar therefor. 3,159,140, 12–1–64, Cl. 119—29.
Miller, George C. Retractable medicine cabinet mirror. 3,159,439, 12–1–64, Cl. 312—227.
Miller, George M.: *See*—
Meyer, Burtis W., and Miller. 3,147,343.
Miller, Geraldene: *See*—
Clark, Fred V., Trice, Karr, and Miller. 3,128,362.
Miller, Glenn E., to Western Electric Co., Inc. Apparatus for exerting equalized compressive forces. 3,127,162, 3–31–64, Cl. 269—157.
Miller, Glenn E., to Western Electric Co., Inc. Clamping assembly. 3,147,005, 9–1–64, Cl. 269—237.
Miller, Gordon H.: *See*—
Cole, Edward L., and Miller. 3,150,077.
Miller, Gustave. Dispensing bottle tap. 3,151,787, 10–6–64, Cl. 222—518.
Miller, Guy W.: *See*—
May, Horace A., and Miller. 3,129,983.
Miller Harness Co., Inc.: *See*—
Cohen, Bernard. 3,119,219.
Miller, Harold A.: *See*—
Bolomey, René A., Miller, and Greenstein. 3,123,489.
Bolomey, René A., Miller, and Greenstein. 3,123,490.
Miller, Harold A., B. Schapiro, and L. M. Greenstein, to Francis Earle Laboratories, Inc. Colored optical elements. 3,123,485, 3–3–64, Cl. 106—148.
Miller, Harold C., to Consolidated Diamond Development Co., Ltd. Grinding wheel with adjustable abrasive segments. 3,121,982, 2–25–64, Cl. 51—209.
Miller, Harold C., to Super-Cut, Inc. System for supplying a coolant liquid to a rotary stone cutting saw or the like. 3,127,886, 4–7–64, Cl. 125—13.
Miller, Harold G., to Racine Hydraulics & Machinery, Inc. Rail anchor applicator. 3,117,530, 1–14–64, Cl. 104—2.
Miller, Harold G., to Racine Hydraulics & Machinery, Inc. Rail anchor relocator. 3,117,531, 1–14–64, Cl. 104—2.
Miller, Harold G., to Racine Hydraulics and Machinery, Inc. Self-contained anchor setter unit. 3,132,597, 5–12–64, Cl. 104—2.
Miller, Harold J., to Pennsalt Chemicals Corp. Compositions and methods for repelling rodents with pentachlorobenzylmercaptans. 3,139,379, 6–30–64, Cl. 167—46.
Miller, Harold M., to Whitin Machine Works. Builder apparatus. 3,130,930, 4–28–64, Cl. 242—26.3.
Miller, Harry: *See*—
Jude, George F., and Miller. 3,116,899.
Miller, Harry, to Sperry Rand Corp. Controlling and monitoring apparatus. 3,124,737, 3–10–64, Cl. 318—489.
Miller, Harry, to Sperry Rand Corp. Monitoring apparatus for control systems. 3,135,485, 6–2–64, Cl. 244—77.
Miller, Harry, to Sperry Rand Corp. Apparatus for controlling the vertical rate of an aircraft. 3,147,424, 9–1–64, Cl. 318—489.
Miller, Harry, to Sperry Rand Corp. Pressure responsive apparatus with line lag and velocity error correction. 3,160,013, 12–8–64, Cl. 73—386.
Miller, Henry, Spring and Mfg. Co.: *See*—
Chambers, Isaac M. 3,139,136.
Miller, Henry L., and T. R. Ramsden, to West Penn Screen Service, Inc. Method and apparatus for reproducing designs. 3,158,077, 11–24–64, Cl. 95—73.
Miller, Henry S., to Radio Corp. of America. Comparator utilizing threshold organs. 3,124,677, 3–10–64, Cl. 235—177.
Miller, Herbert J., M. M. Behles, and J. B. Clark, to United States of America, Navy. Quick release fastening apparatus. 3,127,207, 3–31–64, Cl. 292—300.
Miller, Herman, Inc.: *See*—
Albinson, Don. 3,120,977.
Blodee, Leif. 3,156,498.
Eames, Charles, and Staples. 3,124,390.
Propst, Robert L. 3,120,407.
Miller, Hilliard M., to Corn Products Co. Dusting apparatus. 3,150,080, 9–22–64, Cl. 209—332.
Miller, Hobart G. Toilet seat. 3,153,248, 10–20–64, Cl. 4—239.
Miller, Hobart G. Photographic developer. 3,153,376, 10–20–64, Cl. 95—90.5.
Miller-Holzworth, Inc.: *See*—
Miller, Wiliam E. 3,141,398.
Miller, Howard R.: *See*—
Scheller, Arthur P. Miller, and Phillips. 3,135,850.

Miller, Ira H.: *See*—
Fogerty, James P., Spaak, Stevens, and Miller. 3,155,-268.
Phillipps, Leonard G., and Miller. 3,144,180.

Miller, Ira M. Collapsible container and closure member therefor. 3,120,909, 2–11–64, Cl. 222—522.

Miller, Jack. Multiple jigsaw puzzel. 3,151,867, 10–6–64, Cl. 273—157.

Miller, Jack M., R. L. Scott, W. W. Crafton, and L. B. Van Dyke, to Marlen Equipment Co. Machine for forming meat balls and automatically placing the meat balls in cans. 3,122,869, 3–3–64, Cl. 53—122.

Miller, Jack M., L. F. Alley, M. Long, and C. F. Rapp, to Marlen Equipment Co. Can filling machine. 3,125,136, 3–17–64, Cl. 141—369.

Miller, James C.: *See*—
Wine, Charles M., and Miller. 3,142,766.

Miller, James C., to Radio Corp. of America. Tunnel diode logic circuits employing a single tunnel diode for reset. 3,125,689, 3–17–64, Cl. 307—88.5.

Miller, James C., and A. W. Lo, to Radio Corp. of America. Memory systems. 3,120,653, 2–4–64, Cl. 340—173.

Miller, James C., and L. S. Onyshkevych, to Radio Corp. of America. Memory circuits employing negative resistance elements. 3,162,842, 12–22–64, Cl. 340—173.

Miller, James H.: *See*—
Burtner, Richard L., and Miller. 3,119,106.

Miller, James L.: *See*—
Brucken, Byron L., and Miller. 3,150,619.

Miller, James R.: *See*—
Tredennick, William T., and Miller. 3,140,333.

Miller, Joan E.: *See*—
David, Edward E., Mathews, and Miller. 3,127,477.

Miller, John C., to Mine Safety Appliances Co. Protective headgear vizor mechanism. 3,162,862, 12–29–64, Cl. 2—6.

Miller, John C., and E. R. Erb, Jr., to Sandura Co. Hard surface floor covering and method of manufacture. 3,157,-561, 11–17–64, Cl. 161—164.

Miller, John F.: *See*—
Grebe, John J., and Miller. 3,131,053.

Miller, John G., to Owens-Illinois Glass Co. Forming plastic containers. 3,125,619, 3–17–64, Cl. 264—98.

Miller, John H., and M. O. Helms, to Mold-A-Rama, Inc. Method for molding hollow plastic products. 3,135,814, 6–2–64, Cl. 264—301.

Miller, John H., Jr., to The Filtex Corp. Built-in vacuum cleaning system. 3,127,629, 4–7–64, Cl. 15—314.

Miller, John J. Portable imprinting device. 3,129,660, 4–21–64, Cl. 101—103.

Miller, John M., and E. J. O'Connell, to Tenco. Coffee product. 3,142,572, 7–28–64, Cl. 99—71.

Miller, John M., and T. F. Dryden, to Babcock & Wilcox Ltd. Nuclear reactor insulation. 3,161,266, 12–15–64, Cl. 189—34.

Miller, John N., and P. J. Hughes. Method and apparatus for casting molten metal. 3,153,822, 10–27–64, Cl. 22—79.

Miller, John R., Jr.: *See*—
Varlese, Rocco S., and Miller. 3,148,885.

Miller, John S., Jr., to Pratt Mfg. Corp. Packages for flat articles such as surgical supplies. 3,148,771, 9–15–64, Cl. 206—63.2.

Miller, John W. Coding structure for co-axial connectors. 3,136,592, 6–9–64, Cl. 339—186.

Miller, Joseph A., and F. A. Kruglinski, to General Corrugated Machinery Co., Inc. Sheet stacker. 3,143,344, 8–4–64, Cl. 271—68.

Miller, Joseph R., and C. O. Wilson. Safety chain hitch for trailer vehicles. 3,128,107, 4–7–64, Cl. 280—457.

Miller, Julius, to Milham Products Co., Inc. Curtain package. 3,131,811, 5–5–64, Cl. 206—47.

Miller, Keith M.: *See*—
Harned, John L., and Miller. 3,159,046.

Miller, Kenneth F., and K. F. Szobonya, to Beckman Instruments Inc. Variable resistor with terminal structure. 3,134,085, 5–19–64, Cl. 338—180.

Miller, Kenneth J., C. N. Peterson, and C. B. Garlasco, Jr., to United Aircraft Corp. Contour welding apparatus. 3,132,617, 5–12–64, Cl. 113—134.

Miller, Kenneth T. Pliers with jaw limiting means therefor. 3,130,616, 4–28–64, Cl. 81—9.5.

Miller, Lamon E.: *See*—
Fischer, Richard A., and Miller. 3,117,426.

Miller, Lamon E., to The Garrett Corp. Method and apparatus for transfer of cryogenic liquid. 3,126,711, 3–31–64, Cl. 62—52.

Miller Laundry Machinery Co.: *See*—
Miller, Abe, and Mack. 3,136,718.

Miller, Lee A.: *See*—
Butler, John M., and Miller. 3,156,612.
Butler, John M., Miller, and Wesp. 3,153,020.
Miller, Robert E. and L. A. 3,128,300.

Miller, Lee A., to Monsanto Chemical Co. Process of alkyl 3-acyloxy-2-alkenoates and homopolymer thereof. 3,129,-201, 4–14–64, Cl. 260—78.3.

Miller, Lee A., to Monsanto Co. Heterocyclic esters effective against microorganisms. 3,136,689, 6–9–64, Cl. 167—33.

Miller, Lee A. to Monsanto Co. 3,3'-sulfonyl-bis(alkyl acrylates) and their use as fungicides. 3,148,109, 9–8–64, Cl. 167—22.

Miller, Lee A., to Monsanto Co. Halogenated ether cyano esters. 3,148,204, 9–8–64, Cl. 260—465.

Miller, Lee A., to Monsanto Co. Method of inhibiting growth of undesirable plants. 3,161,495, 12–15–64, Cl. 71—2.5.

Miller, Lee A., to Monsanto Co. Bis(carboalkoxyvinyl)diamines and diimines. 3,161,643, 12–15–64, Cl. 260—268.

Miller, Lee F.: *See*—
Maloney, Clifford J., and Miller. 3,146,341.

Miller, Leon C., J. A. Englund, and F. Vecchiarelli, to National Distillers and Chemical Corp. Spring-loaded hold-down device. 3,156,294, 11–10–64, Cl. 160—173.

Miller, Leon F., to The Osborn Mfg. Co. Brush construction. 3,120,671, 2–11–64, Cl. 15—179.

Miller, Leon F., and R. W. Ellms, to Osborn Mfg. Co. Foundry molding machine. 3,156,958, 11–17–64, Cl. 22—42.

Miller, Leon M. Method and means for transplanting. 3,162,-981, 12–29–64, Cl. 47—58.

Miller, Lester, Jr., to American Machine & Foundry Co. Stepping device. 3,142,188, 7–28–64, Cl. 74—142.

Miller, Lloyd E., Jr. Rotary internal combustion engine. 3,156,220, 11–10–64, Cl. 123—8.

Miller, Lloyd E., Jr. Twin combustion chamber spherical engine. 3,156,221, 11–10–64, Cl. 123—8.

Miller, Lloyd E, Jr. Flathead spherical engine. 3,156,222, 11–10–64, Cl. 123—8.

Miller, Lloyd G., to United Shoe Machinery Corp. Thread cutter mechanisms. 3,141,431, 7–21–64, Cl. 112—252.

Miller, Marion R. Concrete pipe. 3,139,469, 6–30–64, Cl. 264—262.

Miller, Marvin D.: *See*—
Reimers, Frederick E., Miller, and Bush. 3,140,201.
Reimers, Frederick E., Miller, and Naborney. 3,143,428.

Miller, Melvin G. Missile launcher toy. 3,148,478, 9–15–64, Cl. 46—74.

Miller, Mike A., to Aluminum Co. of America. Composite body containers. 3,147,902, 9–8–64, Cl. 229—4.5.

Miller, Monroe A., and J. A. Stegenga, to Milgo Electronic Corp. Multiple symbol graphical recorder. 3,145,070, 8–18–64, Cl. 346—29.

Miller, Nicholas, deceased, by D. E. and R. F. Miller, co-executors, to The Dole Valve Co. Snap acting switch. 3,135,-841, 6–2–64, Cl. 200—67.

Miller, Norman K., to Miller Brothers. Safety edge for power operated door. 3,133,167, 5–12–64, Cl. 200—61.43.

Miller, Norman T.: *See*—
Di Maio, Vincent, and Miller. 3,141,809.

Miller, Orville C., to Carr Lane Mfg. Co. Angularly adjustable locking trunnion. 3,129,937, 4–21–64, Cl. 269—74.

Miller, Otis V.: *See*—
Baer, Charles E., and Kelsey. 3,142,639.

Miller, Paul E.: *See*—
Gates, John W., Jr., Miller, Phillips, and Nadeau. 3,157,506.

Miller, Paul J.: *See*—
Acker, Richard C., Miller, and Pettyjohn. 3,153,424.

Miller, Paul R., to Owens-Corning Fiberglas Corp. Apparatus for forming fibrous blankets. 3,134,145, 5–26–64, Cl. 19—155.

Miller, Paul S., and G. D. M. Peeler, to Raytheon Co. Polarization filter antenna utilizing reflector consisting of parallel separated metal strips mounted on low loss dish. 3,119,-109, 1–21–64, Cl. 343—756.

Miller, Peter and W. Burglar alarm system. 3,133,276, 5–12–64, Cl. 340—276.

Miller, Philip A., and H. S. Corey, Jr., to American Cyanamid Co. Process of producing 4-dedimethylamino-4-methylethylamino-5-hydroxytetracycline. 3,159,552, 12–1–64, Cl. 195—80.

Miller, Philip C., to Ledex, Inc. Pulsing circuit. 3,161,836, 12–15–64, Cl. 331—112.

Miller Printing Machinery Co.: *See*—
Mosemiller, Robert L. 3,118,373.
Mosemiller, Robert L. 3,157,118.
Siebke, Carl O. 3,137,498.
Vogel, William S. 3,161,130.

Miller, Ralph. Two cycle supercharged diesel engine. 3,144,-749, 8–18–64, Cl. 60—13.

Miller, Ralph, to Geigy Chemical Corp. Granular herbicidal triazine compositons. 3,149,953, 9–22–64, Cl. 71—2.4.

Miller, Ralph G.: *See*—
Greiner, Charles J., Hubin, and Miller. 3,131,436.
Miller, Donald L. 3,123,257.

Miller, Raymond E., and J. P. Roth, to International Business Machines Corp. Error correction device. 3,135,946, 6–2–64, Cl. 340—147.

Miller, Richard: *See*—
Hov, Loren J., and Miller. 3,130,168.

Miller, Richard, H. K. Latourette, and E. J. Rich, Jr., to FMC Corp. Sulfurized esters. 3,136,748, 6–9–64, Cl. 260—125.

Miller, Richard A.: *See*—
Coles, Robert F., and Miller. 3,149,990.
Cozadd, Raymond B., and Miller. 3,146,924.

Miller, Richard C., to Bell Telephone Laboratories, Inc. Synchronous wave parametric amplifier and conversion means. 3,122,710, 2–25–64, Cl. 330—4.7.

Miller, Richard G., to Cutler-Hammer, Inc. Toggle switch lever mounting. 3,146,330, 8–25–64, Cl. 200—172.

Miller, Richard H., to General Electric Co. Electric circuit breaker with sealed interrupting unit. 3,163,735, 12–29–64, Cl. 200—144.

Miller, Richard L. Laminated make-up printing stamp. 3,122,095, 2–25–64, Cl. 101—381.

Miller, Robert: *See*—
Lukas, Walter, Komoroff, and Miller. 3,123,986.

Miller, Robert A., to Joy Mfg. Co. Wire line coring tool. 3,126,064, 3–24–64, Cl. 175—246.
Miller, Robert E.: *See*—
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Miller, Robert E. and L. A., to Monsanto Chemical Co. 3-phenoxyacrylonitriles prepared by cyanovinylation reaction. 3,128,300, 4–7–64, Cl. 260—465.
Miller, Robert E., and J. L. Anderson, to The National Cash Register Co. Encapsulation process and its product. 3,155,590, 11–3–64, Cl. 167—83.
Miller, Robert H., and J. H. Parks, to Caterpillar Tractor Co. Engine speed limiting means responsive to lubricating oil pressure. 3,159,036, 12–1–64, Cl. 73—509.
Miller, Robert L.: *See*—
Allingham, Robert P., Miller, and Rutner. 3,133,089.
Tate, Bryce E., and Miller. 3,130,204.
Miller, Robert R.: *See*—
Watts, Claude H., and Miller. 3,139,656.
Miller, Roger F.: *See*—
Kolany, Thomas E., Soong, and Miller. 3,131,431.
Miller, Nicholas. 3,135,841.
Miller, Roland E., C. G. Tumino, and G. Wynn, to National Dairy Products Corp. Valve construction for packaging apparatus. 3,128,986, 4–14–64, Cl. 251—175.
Miller, Roland E., and C. G. Tumino, to National Dairy Products Corp. Packaging apparatus including a hopper, a metering assembly and movable tray. 3,145,742, 8–25–64, Cl. 141—191.
Miller, Ross J., to E. I. du Pont de Nemours and Co. Non-electric initiating assembly. 3,122,097, 2–25–64, Cl. 102—27.
Miller, Ross J., to E. I. du Pont de Nemours and Co. Sonic pulse generator. 3,154,013, 10–27–64, Cl. 102—1.
Miller, Roy E.: *See*—
Harnish, Martin J., and Miller. 3,156,204.
Miller, Roy L. Film washer. 3,140,647, 7–14–64, Cl. 95—93.
Miller, Roy M., to Emil Clark. Magnetic license bracket. 3,126,190, 3–24–64, Cl. 248—206.
Miller, Samuel E., to Quick Service Textiles, Inc. Waist band construction. 3,155,986, 11–10–64, Cl. 2—236.
Miller, Sidney E., Jr. Stepper motor. 3,134,917, 5–26–64, Cl. 310—49.
Miller, Steven R., to Crouse-Hinds Co. Safety signal switch. 3,122,623, 2–25–64, Cl. 200—167.
Miller, Stewart E., to Bell Telephone Laboratories, Inc. Pulse synchronizing means for multiroute P.C.M. system. 3,118,111, 1–14–64, Cl. 325—13.
Miller, Stewart E., to Bell Telephone Laboratories, Inc. Pulse transmission systems employing negative resistance elements. 3,124,648, 3–10–64, Cl. 178—70.
Miller, Stewart E., to Bell Telephone Laboratories, Inc. Tapered waveguide transition sections. 3,126,517, 3–24–64, Cl. 333—34.
Miller, Stuart G.: *See*—
Wahlbeck, Ira H., and Miller. 3,123,794.
Miller Swivel Products, Inc.: *See*—
Cozadd, Raymond B., and Miller. 3,146,924.
Miller, Theodore, to Space Technology Laboratories, Inc. Navigational and reconnaissance pulse-echo radar system. 3,146,441, 8–25–64, Cl. 343—5.
Miller, Theodore A. Powder dispensing unit. 3,140,018, 7–7–64, Cl. 222—283.
Miller, Theodore A., and H. L. Fowler; said Fowler assor. to said Miller. Measuring and dispensing apparatus. 3,129,858, 4–21–64, Cl. 222—439.
Miller, Theodore R.: *See*—
Mallina, Rudolph F., and Miller. 3,144,654.
Miller, Thomas M. Electric clipper cleaner and sterilizer. 3,126,247, 3–24–64, Cl. 21—83.
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Finnegan, Larry P., and Miller. 3,156,581.
Miller, Victor A.: *See*—
Greenlee, William B., and Miller. 3,122,644.
Miller, Wallace W. Sill assembly for exterior openings. Re. 25,590, 6–9–64, Cl. 20—64.
Miller, Walter C.: *See*—
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Barton, Frank L., Jr., and Miller. 3,146,083.
Miller, Walter L., H. S. Preiser, and S. Tudor, to Chemionics Engineering Laboratories, Inc. Anode for electrochemical applications. 3,133,872, 5–19–64, Cl. 204—196.
Miller, Walter L., and S. Tudor. Electrolytic anode and connection. 3,133,873, 5–19–64, Cl. 204—196.
Miller, Wendell E., to The Cessna Aircraft Co. Delayed pressure loading for gear motors. 3,153,371, 10–20–64, Cl. 91—87.
Miller, Wendell S. Fastening device. 3,131,397, 5–5–64, Cl. 1—49.
Miller, Wendell S. Burning process for recovering sulfur from the earth. 3,131,914, 5–5–64, Cl. 262—3.
Miller, Wendell S. Automatic skid control. 3,131,976, 5–5–64, Cl. 303—24.
Miller, Wendell S. Linear motion power amplifier. 3,140,619, 7–14–64, Cl. 74—30.
Miller, Wesley L.: *See*—
Black, William B., and Miller. 3,163,624.
Miller, William: *See*—
Miller, Peter and W. 3,133,276.
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Miller, William E. Tractor hitch. 3,162,247, 12–22–64, Cl. 172—7.
Miller, William E., H. L. Stethers, and T. R. Johnson, to United States of America, Atomic Energy Commission. Process for preparing uranium carbide. 3,123,435, 3–3–64, Cl. 23—14.5.
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Marzocchi, Alfred, Jannarelli, and Miller. 3,155,543.
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Miller, William L., to Continental Can Co., Inc. Cup for hot beverages. 3,123,273, 3–3–64, Cl. 229—1.5.
Miller, William N., Jr. Sign board panel. 3,146,541, 9–1–64, Cl. 40—125.
Miller, William R., to General Electric Co. Rotary converter fed motor control for a vehicle. 3,133,237, 5–12–64, Cl. 318—145.
Miller, William R., Jr., M. D. Rydberg, J. D. Sparklin, T. E. Fitch, and W. J. Forward, to Consolidated Machine Tool Division of Farrel-Birmingham Co., Inc. Machine tool. 3,152,394, 10–13–64, Cl. 29—560.
Miller, William W.: *See*—
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Faletti, Fred J., and Pittman. 3,142,605.
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Millerwise, Carl H., to American Radiator & Standard Sanitary Corp. Impulse switch. 3,117,199, 1–7–64, Cl. 200—77.
Millett, Michael, to Modern Telephones (Great Britain) Ltd. Intercommunication telephone systems. 3,126,448, 3–24–64, Cl. 179—1.
Milleville, Bertram J., to The Ohio Injector Co. High pressure bar stock valve. 3,147,950, 9–8–64, Cl. 251—214.
Millheiser, Melvin, to Waldes Kohinoor, Inc. Quick-acting bolt and nut type fastener having contractible bolt-gripping sleeve. 3,145,611, 8–25–64, Cl. 85—1.
Millhiser, Robert G., to Ajem Laboratories, Inc. Scouring and abrasive treating machine. 3,153,882, 10–27–64, Cl. 51—15.
Millhiser, Robert G., to Ajem Laboratories, Inc. Transverse abrasive blast tube. 3,160,989, 12–15–64, Cl. 51—8.
Millhiser, Robert G., N. J. Panzica, and W. L. Johnson, to Ajem Laboratories, Inc. Scalloped edge on settling tank for grit blasting. 3,122,863, 3–3–64, Cl. 51—8.
Millhiser, Robert G., N. Panzica, E. Umbricht, and D. M. Evans, to Ajem Laboratories, Inc. Abrasive blasting machine. 3,146,550, 9–1–64, Cl. 51—15.
Millhouse, Douglas G., to Bell & Howell Co. Combined shutter and diaphragm for a camera. 3,121,380, 2–18–64, Cl. 95—64.
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Milligan, Jess R. Shoe and heel assembly. 3,162,961, 12–29–64, Cl. 36—2.5.
Milligan, John, to M.G. Plastics Ltd. Casting synthetics resins. 3,132,195, 5–5–64, Cl. 264—272.
Milligan, John D.: *See*—
Farkas, George B., Korin, and Milligan. 3,145,680.
Milligan, John G., to Jefferson Chemical Co., Inc. Method for preparing color stable ethanolamines. 3,151,166, 9–29–64, Cl. 260—584.
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Bard, Charleton C., Millikan, and Thomas. 3,128,182.
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Millikan, Allen F., to The Pure Oil Co. Method of conditioning soil by applying petroleum fractions. 3,138,896, 6–30–64, Cl. 47—58.
Millikan, Allen F., to The Pure Oil Co. Guanidine naphthenates and process for making them. 3,142,636, 7–28–64, Cl. 208—180.
Millikan, Roger C., to General Electric Co. Ignitor. 3,136,126, 6–9–64, Cl. 60—39.82.
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Millis, Edwin G., to Texas Instruments Inc. Analogue to digital converter. 3,133,278, 5–12–64, Cl. 340—347.
Millis, Frank E. Sled for snow and water. 3,145,030, 8–18–64, Cl. 280—16.
Millman, Nathan, and M. E. Fretz, to J. M. Huber Corp. Stabilization of fluid suspensions of filler grade clay. 3,130,063, 4–21–64, Cl. 106—308.
Millman, William V., to American Air Filter Co., Inc. Fan wheel construction. 3,119,553, 1–28–64, Cl. 230—134.

Millman, William V., to American Air Filter Co., Inc. Air conditioning condensate handling apparatus and method. 3,122,893, 3–3–64, Cl. 62—93.

Millman, William V., to American Air Filter Co., Inc. Damper operating arrangement. 3,134,318, 5–26–64, Cl. 98—38.

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Mills, Clarence A., to Reflectotherm, Inc. Reflective radiant conditioning system for human comfort. 3,120,866, 2–11–64, Cl. 165—22.

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Cross, Eason, Jr., and Mills. 3,144,694.

Mills, Edwin R., and T. R. Ray, to Fieldcrest Mills, Inc. Electrically heated article with thermostat retainer means. 3,119,926, 1–28–64, Cl. 219—46.

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Mills, George A., T. H. Milliken, Jr., and H. Heinemann, to Air Products and Chemicals, Inc. Reactivating metallic contaminated catalyst employed in cracking hydrocarbons. 3,120,484, 2–4–64, Cl. 208—120.

Mills, Herbert E., to Mills Products, Inc. Oven closure and hinge construction. 3,127,889, 4–7–64, Cl. 126—194.

Mills, Herbert E., to Mills Products, Inc. Oven closure construction. 3,127,890, 4–7–64, Cl. 126—200.

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Mills, Jack, and F. J. Marshall, to Eli Lilly and Co. Novel sulfonylureas. 3,155,721, 11–3–64, Cl. 260—553.

Mills, Jack F., to The Dow Chemical Co. Process of bleaching textiles with lower alkyl quaternary ammonium perhalides. 3,156,521, 11–10–64, Cl. 8—108.

Mills, John A. Method for finishing gears. 3,143,039, 8–4–64, Cl. 90—1.6.

Mills, John K., and F. P. Zupa, to Bell Telephone Laboratories, Inc. Direct-coupled transistor oscillator having variable source impedance for controlling frequency. 3,141,139, 7–14–64, Cl. 331—45.

Mills, John T., to Jennings Engineering Co. Non-woven pile fabrics and methods of their manufacture. 3,142,611, 7–28–64, Cl. 161—66.

Mills, John T., and R. E. Fleming, to Jennings Engineering Co. Apparatus for making non-woven pile fabrics. 3,142,-604, 7–28–64, Cl. 156—435.

Mills, Joseph A. W., and F. H. B. Hillier, to Dowty Mining Equipment Ltd. Telescopic hydraulic props. 3,142,156, 7–28–64, Cl. 60—52.

Mills, King L., Jr., to Phillips Petroleum Co. Catalytic hydro-cracking. 3,131,142, 4–28–64, Cl. 208—108.

Mills, Lawrence W., to Martin-Marietta Corp. Relay circuit. 3,121,189, 2–11–64, Cl. 317—137.

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Mills, Herbert E. 3,127,890.

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Weinkauff, Oliver J., and Mills. 3,148,207.

Mills, Robert H., to Monsanto Co. Di(alkylglycolyl)phthalates. 3,155,714, 11–3–64, Cl. 260—475.

Mills, Robert H., and O. J. Weinkauff, deceased (by R. T. Weinkauff, executrix), to Monsanto Co. Method for the preparation of carboxylic acid esters. 3,148,200, 9–8–64, Cl. 260—410.6.

Mills, Thomas C.: *See*—
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Millsap, Larry R., and W. Hochwald, to North American Aviation, Inc. Relay tachometer and analog multiplier circuit. 3,163,751, 12–29–64, Cl. 235—194.

Millsaps, William A., and J. L. Staubly, to Pennsalt Chemicals Corp. Process for tinting laundry chemicals in the dry state. 3,123,565, 3–3–64, Cl. 252—135.

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Milmore, Oswald H., to Shell Oil Co. Method of operating a fluid mixer with rotating baffles. 3,143,395, 8–4–64, Cl. 23—310.

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Milo, Joseph V. Coupling and valve assembly. 3,122,159, 2–25–64, Cl. 137—454.2.

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Milster, Arthur N., to Wagner Electric Corp. Anti-creep brake mechanism. 3,153,426, 10–20–64, Cl. 137—598.

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Milton, Charles J. Disposable container. 3,137,438, 6–16–64, Cl. 229—62.5.

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Poettmann, Fred H., Larkin, Milton, and Bixel. 3,127,-935.

Milton, Robert M., to Union Carbide Corp. Drying cracked gas. 3,130,021, 4–21–64, Cl. 55—33.

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Mims, Lisso S.: *See*—
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Mims, William B., to Bell Telephone Laboratories, Inc. Spin resonance storage system. 3,155,941, 11–3–64, Cl. 340—173.

Min, Hyung S., and P. E. Parisot, to Monsanto Chemical Co. Process control. 3,132,002, 5–5–64, Cl. 23—230.

Minakami, Haruhiko: *See*—
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Minamoto, Miriam T., to Cutler-Hammer, Inc. Method of making semiconductor devices. 3,152,023, 10–6–64, Cl. 148—177.

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Minard, Everett S., to Chemetron Corp. No-container no-fill arrangement for receptacle filling machines. 3,139,915, 7–7–64, Cl. 141—94.

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Minder, Peter M., to McGraw-Edison Co. Capacitor bank protective means having unbalance current compensation. 3,158,783, 11–24–64, Cl. 317—12.

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Jones, Mertis E., and Miner. 3,142,785.
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Miner, John E. Remote control system for outboard motors. 3,140,689, 7–14–64, Cl. 115—17.
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Miner, Robert G., to The Trane Co. Heating and cooling air conditioning system. 3,147,797, 9–8–64, Cl. 165—22.
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Haden, Walter L., Jr. 3,126,011.
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Minister of National Defence, Her Majesty the Queen in right of Canada, as represented by the: *See*—
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Minister of Supply in Her Majesty's Government of the United Kingdom of Great Britain and Northern Ireland: *See*—
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Lines, Albert W. 3,156,825.
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Davis, Henry F. 3,123,774.
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Donahue, Lawrence E. 3,123,294.
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Fabisch, Warren P. 3,150,825.
Fillmore, Robert L., and Kintigh. 3,145,623.
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Hallanger, Erling C. 3,129,587.
Hamelberg, August. 3,124,775.
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Hawn, Robert D. 3,126,641.
Hazelquist, Donald R. 3,146,315.
Hedges, George D. 3,122,946.
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Hermanns, Henry M. 3,126,744.
Hochstetler, Nevin M. 3,147,402.
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Jensen, James L. 3,118,115.
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Kaufmann, Raymond E. 3,119,582.
Koch, Robert B. 3,122,921.
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Larsen, Theodore E. 3,130,285.
Le Massena, Robert A. 3,144,295.
Lindberg, Birger A. 3,139,558.
Lingle, John T. 3,127,551.
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Loveland, Roger S. 3,146,823.
Lundberg, John E. 3,126,940.
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McCammon, Robert F., and Tomkinson. 3,127,112.
Mekota, John E., Jr. 3,119,094.
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Mizen, Carlton A. 3,143,650.
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Bonrud, Leon O. 3,127,332.
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Healey, Francis C., and Johnson. 3,145,262.
Heine, Richard F. 3,129,254.
Herden, Robert B. 3,132,821.
Howard, Robert N. 3,154,897.
Johnson, Douglas L. 3,154,461.
Johnson, George N. 3,123,271.
Johnson, James R., and Sowman. 3,151,037.
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Johnston, James E. 3,136,681.
Kaspaul, Alfred F. and E. E. 3,140,143.
Kimble, Donal G. 3,131,302.
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Krueger, Alfred P. 3,143,019.
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Neher, Byron W. 3,146,101.
Neher, Byron W. 3,153,591.
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Senstad, Paul D. 3,140,440.
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Skaptason, Joseph B. 3,117,850.
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Skotnicki, Thaddeus J., Auger, and Heasley. 3,149,019.
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Minty, John E., to Manning, Maxwell & Moore, Inc. Flying rope crane. 3,142,387, 7–28–64, Cl. 212—18.

Mintz, Albert E., 50% each to R. O. Richardson, and Dock & Dock. Safety lock for doors. 3,134,252, 5–26–64, Cl. 70—93.

Mintz, Arthur L., to Caschome Co. Inc. Fishing and convenience stool. 3,122,397, 2–25–64, Cl. 297—192.

Mintz, Gerald E., to Mack Trucks, Inc. Air cleaner seal for tilt cab vehicles. 3,151,695, 10–6–64, Cl. 180—54.

Mintz, Julius. Hand tool for separating threaded-together articles. 3,134,281, 5–26–64, Cl. 81—3.44.

Mintzer, Alfred I., to United States of America, Army. Range sweep and positioning circuit. 3,140,484, 7–7–64, Cl. 343—7.3.

Mintzer, Lester, to Minneapolis-Honeywell Regulator Co. Electrical pulse manipulating apparatus. 3,121,172, 2–11–64, Cl. 307—88.

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Minutilla, Leon C., to Rhode Island Spring Products, Inc. Centrifugally retained traction device. 3,117,612, 1–14–64, Cl. 152—216.

Minutilla, Leon C., to Rhode Island Spring Products, Inc. Traction grip device for vehicle tires. 3,138,189, 6–23–64, Cl. 152—216.

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Minutoli, Anthony L., to Kesterman Bros. Mfg., Co. Clasp for articles of jewelry and the like. 3,160,938, 12–15–64, Cl. 24—265.

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Miron, Vladimir C., deceased (by The First National Bank in Sioux City, executor), to Wincharger Corp. Plural voltage electric generator. 3,160,772, 12–8–64, Cl. 310—146.

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Mirsky, Monroe, and J. W. Tinning, to Dresser Industries, Inc. Method of applying pipe protectors. 3,126,624, 3–31–64, Cl. 29—450.

Mirvis, Leonard, to Parke, Davis & Co. Feeder bowl. 3,131,802, 5–5–64, Cl. 198—33.

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Miselli, Afro. Cutting head for electric shavers having a helical shaped movable cutter. 3,128,550, 4–14–64, Cl. 30—43.

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Mish, William A., Jr. Tobacco stick. 3,163,454, 12–29–64, Cl. 294—5.5.

Mishcon, Lester, to The Singer Co. Method of producing knit fabric. 3,137,150, 6–16–64, Cl. 66—169.

Mishcon, Lester, to The Singer Co. Pattern mechanism for circular knitting machines. 3,145,548, 8–25–64, Cl. 66—50.

Mishcon, Lester, to The Singer Co. Sinker assist devices for knitting machines. 3,149,483, 9–22–64, Cl. 66—107.

Mishelevich, Benjamin, and D. D. Rinehart, to North Electric Co. Position-and-lock jack. 3,145,067, 8–18–64, Cl. 339—75.

Mishina, Yoshihiro, and T. Miura, to Ishikawajima-Harima Jukogyo Kabushiki Kaisha. Rotary gas motor and compressor with conical rotors. 3,116,871, 1–7–64, Cl. 230—142.

Mishkin, Abraham R., W. C. Marsh, and J. H. Wertheim, to Afico S.A. Aromatization of powdered coffee products. 3,148,070, 9–8–64, Cl. 99—71.

Mishler, David D., to General Motors Corp. Brake lining wear warning mechanism and method of generating lining wear warning signals. 3,141,524, 7–21–64, Cl. 188—1.

Misiak, Joseph A. Foot-adjusting insert and method. 3,158,151, 11–24–64, Cl. 128—2.

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Mitchell, Basil D. Remotely controlled power operated fishing gear. 3,138,890, 6–30–64, Cl. 43—6.5.

Mitchell, Charles L., to The Cincinnati Milling Machine Co. Pressure regulating mechanism for hydraulic press and method of programming cam therefor. 3,125,053, 3–17–64, Cl. 113—45.

Mitchell, Colin C., ¼ to Brown Brothers & Co. Ltd., ¼ to William Denny & Brothers Ltd., and ¼ to Allegemeine Elektricitats Gesellschaft Schiffbau, and ¼ to Deutsche Werft Aktiengesellschaft. Stabilising apparatus for ships. 3,125,057, 3–17–64, Cl. 114—126.

Mitchell, Colin C., K. Hinsch, and R. Geyer, to William Denny & Brothers Ltd., Brown Brothers & Co., Deutsche Werft A.G., and Allgemeine Elecktricitats-Gesellschaft. Fin arrangement. 3,126,857, 3–31–64, Cl. 114—126.
Mitchell, Daniel. Bowling alley dressing oil applicator. 3,150,407, 9–29–64, Cl. 15—529.
Mitchell, David F.: *See*—
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Mitchell, David F., to International Equipment Co. Continuous flow centrifuge apparatus. 3,127,342, 3–31–64, Cl. 233—21.
Mitchell, David F., and R. W. Schmader, to International Equipment Co. Centrifuges with retainers, retainers, and bottle stoppers for use therewith. 3,133,882, 5–19–64, Cl. 233—26.
Mitchell, David M., and E. R. Phinney, to Bell Telephone Laboratories, Inc. Device for shaving cable core. 3,128,658, 4–14–64, Cl. 82—20.
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Mitchell, Fleeta A. Drapery pleating. 3,122,290, 2–25–64, Cl. 223—28.
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Mitchell, Henry D., Jr., to Western Electric Co., Inc. Apparatus for gaging components. 3,150,774, 9–29–64, Cl. 209—85.
Mitchell, Irving L., to Ebert Electronics Corp. Periodic mercury relay. 3,142,736, 7–28–64, Cl. 200—112.
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Mitchell, Jack L., to California Pellet Mill Co. Pellet mill die and method of forming same. 3,129,458, 4–21–64, Cl. 18—12.
Mitchell, Jack L. and W. L. Sportsmen's garment. 3,130,416, 4–28–64, Cl. 2—79.
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Mitchell, Joseph A., M. T. Works, and T. E. Tucker, Jr., to Dresser Industries, Inc. Shaft bearing fluid seal for downhole drilling engines. 3,149,685, 9–22–64, Cl. 175—107.
Mitchell, Joseph M. Medicine dropper construction. 3,124,171, 3–10–64, Cl. 141—26.
Mitchell, Joseph M. Medicine dropper construction. 3,154,116, 10–27–64, Cl. 141—24.
Mitchell, Joseph R., M. E. Potter, and E. J. Whittenberger, to United States Steel Corp. Heat treatment of chromium-free steel bearings. 3,155,550, 11–3–64, Cl. 148—134.
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Mitchell, Peter W. D., to American Home Products Corp. Manufacture of 2,3-dicyano-5,6-dichlorobenzoquinone and intermediate therefor. 3,133,939, 5–19–64, Cl. 260—396.
Mitchell, Peter W. D., and D. J. Marshall, to American Home Products Corp. Preparation of 3β-hydroxy-Δ^4-20-keto-steroids from steroidal Δ^4 - 3,20 - diketones. 3,156,712, 11–10–64, Cl. 260—397.3.
Mitchell, Ralph I., and L. J. Hillenbrand, Jr., to The Barber Mfg. Co. Oxygen detection method and apparatus. 3,119,670, 1–28–64, Cl. 23—232.
Mitchell, Raymond R. Radiator cap. 3,136,292, 6–9–64, Cl. 116—114.
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Mitchell, Thomas E., O. K. Neville, and A. G. Schrodt, to Nuclear-Chicago Corp. Information coding and sensing by means of beta-ray backscattering. 3,143,649, 8–4–64, Cl. 250—83.3.
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Mitchell, Walter, Jr. Joint for sheet metal and the like and method of forming same. 3,119,473, 1–28–64, Cl. 189—36.
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Mittelstaedt, Georg S. Method of density differentiation in radiography. 3,121,792, 2–18–64, Cl. 250—65.
Mittelstaedt, Georg S. Suction pump means having transversely divided suction tubes. 3,127,091, 3–31–64, Cl. 230—92.
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Mittelstaedt, Georg S. Suction pump means having suction tubes with transversal and peripheral openings. 3,129,874, 4–21–64, Cl. 230—92.
Mittelstaedt, Georg S. Suction pumps having suction tubes with peripheral openings. 3,135,221, 6–2–64, Cl. 103—262.
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Mittelsteadt, Glen L., to Herter's Inc. Tiltable bottle mounting attachment for powder measuring devices. 3,147,890, 9–8–64, Cl. 222—165.
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Mittler, Sheldon. Circuit assembly. 3,152,288, 10–6–64, Cl. 317—99.
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Mitz, Milton A., and S. S. Yanari, to Armour-Pharmaceutical. Catalase compositions. 3,126,324, 3–24–64, Cl. 195—63.
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Mizell, Toney, Jr., and S. E. Houser. Can sorting device. 3,131,816, 5–5–64, Cl. 209—111.5.
Mizelle, Adrian C., to Brown & Williamson Tobacco Corp. Direct feed mechanism interconnecting cigarette packer and cellophane wrapper apparatus. 3,121,301, 2–18–64, Cl. 53—74.
Mizelle, Ned W., to General Steel Products, Inc. Reclining chair fixture. 3,128,122, 4–7–64, Cl. 297—68.
Mizelle, Ned W., to General Steel Products, Inc. Reclining chair and fixture. 3,139,305, 6–30–64, Cl. 297—317.
Mizen, Carlton A., to Minneapolis-Honeywell Regulator Co. Radiation detection apparatus with means to obtain substantially constant output signal with widely varying input signals. 3,143,650, 8–4–64, Cl. 250—83.3.
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Mizer, Donald E., to Heat-King Corp. Booster heater. 3,158,192, 11–24–64, Cl. 158—28.
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Mizushima, San-Ichiro, to Yawata Iron & Steel Co., Ltd. Rapid direct reduction method of iron oxide. 3,135,598, 6–2–64, Cl. 75—26.
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Mobley, Paul R., to General Electric Co. Brazing alloy. 3,155,499, 11–3–64, Cl. 75—134.
Möbus, Günter, to Tente-Rollen Gesellschaft mit beschrankter Haftung & Companie. Lock type caster. 3,162,888, 12–29–64, Cl. 16—35.
Mocey, Walter G., to Philco Corp. Refrigeration system including defrost means. 3,118,287, 1–21–64, Cl. 62—156.
Mock, Frank C., to The Bendix Corp. Motive fluid control for a re-expansion gas turbine engine. 3,124,931, 3–17–64, Cl. 60—39.25.
Mock, Frank C., to The Bendix Corp. Braking system for gas turbine driven land vehicles. 3,133,416, 5–19–64, Cl. 60—39.16.
Mock, Harold J., and R. V. Keys. Connector for miniature multiple conductor tape or wires. 3,123,422, 3–3–64, Cl. 339—75.
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Modiano, Victor J., to Hughes Aircraft Co. Majority logic circuit using a constant current bias. 3,155,839, 11–3–64, Cl. 307—88.5.
Modigliani, Piero, to Reichhold Chemicals Inc. Method of and apparatus for multiple forming and winding of glass and resin filaments. 3,134,704, 5–26–64, Cl. 156—167.
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Modrey, Henry J. Quick-acting fastener device for securing together several members. 3,121,453, 2–18–64, Cl. 151—41.7.
Modrey, Henry J., to Hubbell Harvy, Inc. Electrical wiring device. 3,121,599, 2–18–64, Cl. 339—91.
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Moe, Paul G., to National Lead Co. Soil-conditioning with linseed hulls. 3,118,251, 1–21–64, Cl. 47—58.
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Moehlmann, Richard H., to General Dynamics Corp. Pulse generators. 3,144,567, 8–11–64, Cl. 307—108.
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Moeller, Delmer H., to The Dow Chemical Co. Honeycomb fabrication. 3,134,705, 5–26–64, Cl. 156—197.
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Moellmann, Heinz F. Fuel control air pressure multiplier and main metering valve. 3,159,001, 12–1–64, Cl. 60—39.28.
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Moesker, Gerard, to North American Philips Co., Inc. Method of making grids intended for use in electron discharge-tubes. 3,154,113, 10–27–64, Cl. 140—71.5.
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Moffett, Robert B., to The Upjohn Co. Novel alkenyloxy-3,5-dialkyl benzamides. 3,131,188, 4–28–64, Cl. 260—268.
Moffett, Robert B., to The Upjohn Co. Mono and Bis N-(3α, 17α - dihydroxy - 11,20 - dioxo - 5(β - pregnan - 21 - yl)quaternary ammonium salts of triethylenediamine. 3,144,446, 8–11–64, Cl. 260—239.5.
Moffett, Robert B., to The Upjohn Co. Mono and bis N-phenacyl quaternary ammonium salts of triethylenediamine. 3,144,455, 8–11–64, Cl. 260—268.
Moffett, Robert B., to The Upjohn Co. Mono and bis N-alkanoylmethyl quaternary ammonium salts of triethylenediamine. 3,144,456, 8–11–64, Cl. 260—268.
Moffett, Robert B., to The Upjohn Co. N-(2-phthalimidoethyl) quaternary ammonium salts of triethylenediamine. 3,144,457, 8–11–64, Cl. 260—268.
Moffett, Robert B., to The Upjohn Co. Mono and bis N-(p-sulfamoylbenzyl)quaternary ammonium salts of triethylenediamine. 3,144,458, 8–11–64, Cl. 260—268.
Moffett, Robert B., to The Upjohn Co. Pyridylcoumarins. 3,156,697, 11–10–64, Cl. 260—295.
Moffett, Robert P.: *See*—
Hoffman, Robert M., and Moffett. 3,148,999.
Moffett, Sam M.: *See*—
Horn, Robert C., Moffett, and Craig. 3,133,932.
Weakley, Martin L., Moffett, and Craig. 3,119,865.
Moffitt, Merritt L., Jr. Sailing catamaran. 3,141,435, 7–21–64, Cl. 114—39.
Mogensen, Harry, to Radio Corp. of America. Sequential pulse generator employing first and second delay means controlling pulse duration and spacing, respectively. 3,162,-815, 12–22–64, Cl. 328—62.
Mogilner, George S. High frequency dielectric preheater. 3,134,882, 5–26–64, Cl. 219—10.67.
Moglia, John A. Shipping carton for garments. 3,139,978, 7–7–64, Cl. 206—7.
Mohamed, Ahmed. Auxiliary cranking unit for internal combustion engines. 3,148,549, 9–15–64, Cl. 74—1.
Mohan, William L.: *See*—
Willits, Samuel P., and Mohan. 3,158,079.
Mohasco Industries, Inc.: *See*—
Chapman, Dave. 3,140,564.
Chapman, Dave. 3,161,258.
Hubbard, John L. 3,118,293.
Pospiszel, Joseph T. 3,121,025.
Mohawk Rubber Co., The: *See*—
Nonnamaker, William M. 3,128,815.
Nonnamaker, William M. 3,129,743.
Mohier, Lucien L.: *See*—
Cognet, Firmin E. A., and Mohier. 3,138,659.
Mohler, Harvey H. Adjustable platform lounging chair. 3,131,965, 5–5–64, Cl. 297—89.
Mohler, Robert D., R. H. Curtis, and J. J. Williams, to Motorola, Inc. Electronic circuit. 3,162,821, 12–22–64, Cl. 330—40.
Mohlie, Raymond E.: *See*—
Ludington, Varnum D., Schara, and Mohlie. 3,119,691.
Mohlman, John W.: *See*—
Davis, Noah S., and Mohlman. 3,137,555.
Mohn, Henrich: *See*—
Heraeus, Wilhelm H., and Mohn. 3,128,169.
Mohn, Heinrich, to Heraeus Quarzschmelze G.m.b.H. Process for producing quartz glass. 3,128,166, 4–7–64, Cl. 65—18.
Mohn, Heinrich, and G. Horstmann, to Heraeus Quarzschmelze G.m.b.H., and Metall-Walz und Plattierwerke Hindrichs-Auffermann A.G. Bench mounted heat radiator. 3,147,-363, 9–1–64, Cl. 219—217.

Mohn, Henry L., E. J. Kern, and G. D. Frank, to York-Shipley, Inc. Apparatus for use in hot water heating systems. 3,150,827, 9–29–64, Cl. 237—8.
Mohn, Karl O.: *See*—
Feehan, Arthur A., Mohn, and Moseley. 3,151,484.
Mohr, Gunther: *See*—
Hahn, Heinrich, Mohr, and Van Schoor. 3,152,169.
Mohr, James W., to Outboard Marine Corp. Outboard motor mounting arrangement. 3,127,866, 4–7–64, Cl. 115—17.
Mohr, John, & Sons: *See*—
Ine, Frank H. 3,116,513.
Ine, Frank H. 3,137,031.
Ine, Frank H., and Belknap. 3,138,288.
Mohr, Louis E., Seaholm, and Berczynski. 3,126,941.
Mohr, Robert C. 3,116,842.
Philbrick, Herbert S., Jr. 3,152,206.
Philbrick, Herbert S., Jr., and De Coursey. 3,124,142.
Radwan, Antoni. 3,131,700.
Smith, Donald P. 3,120,025.
Mohr, Louis E., R. V. Seaholm, and F. A. Berczynski, to John Mohr & Sons. Integral gas burner and valve. 3,126,-941, 3–31–64, Cl. 158—109.
Mohr, Reinhard: *See*—
Hertel, Hasso, and Mohr. 3,132,131.
Hertel, Hasso, and Mohr. 3,133,049
Hertel, Hasso, Mohr, and Staab. 3,121,073.
Mohr, Robert C., to John Mohr & Sons. Gas seal structure for high top pressure operation. 3,116,842, 1–7–64, Cl. 214—37.
Mohr, Robert G., and D. A. Bice, to Brunswick Corp. Mounting. 3,133,642, 5–19–64, Cl. 211—86.
Mohr, Robert W., to Sunbeam Corp. Tool attachment for portable power unit. 3,130,759, 4–28–64, Cl. 144—35.
Mohrbacher, Richard J.: *See*—
Kaiser, Carl, and Mohrbacher. 3,156,725.
Mohrhauser, John P. Jet engine. 3,162,010, 12–22–64, Cl. 60—35.6.
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Kops, Earl A., and Mohrlock. 3,124,123.
Mohs, Hillary F.: *See*—
Banker, John J., Drab, and Mohs. 3,118,431.
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Dent, Frederick J., and Moignard. 3,124,436.
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De Lossy, Chevalier D., and H. and F. Moinil. 3,130,717.
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Hoedemaker, Robert W., and Molnar. 3,157,864.
Moise, Lester, to The Joseph L. Schlesinger Co. Needle turret. 3,125,045, 3–17–64, Cl. 112—83.
Moiso, Ugo: *See*—
Gaetani, Ermanno, Moiso, and Papa. 3,158,435.
Mojonnier, Albert, Inc.: *See*—
Mojonnier, Albert B. 3,142,422.
Mojonnier, Albert B., and Eastman. 3,152,944.
Mojonnier, Albert B., to Albert Mojonnier, Inc. Container. 3,142,422, 7–28–64, Cl. 222—566.
Mojonnier, Albert B., and F. L. Eastman, to Albert Mojonnier, Inc. Apparatus for assembling plastic containers. 3,152,944, 10–13–64, Cl. 156—498.
Mojonnier, George W., and R. J. Hansel. Filling apparatus. 3,155,125, 11–3–64, Cl. 141—150.
Mojonnier, Oliver W. Link member. 3,160,024, 12–8–64, Cl. 74—249.
Moklebust, Olav, to R–N Corp. Integrated charring and ore reduction. 3,133,812, 5–19–64, Cl. 75—36.
Smith, Rollin P., and Moklebust. 3,140,169.
Moklebust, Olav, to R-N Corp. Processing of manganiferous ores. 3,149,961, 9–22–64, Cl. 75—80.
Mokler, Brian V.: *See*—
Parker, Rienzi B., Jr., and Mokler. 3,161,511.
Mokler, Raymond J. Bingo game boards. 3,156,469, 11–10–64, Cl. 273—135.
Molamake Co., The: *See*—
Monus, George. 3,161,149.
Molander, Donald A., to Pines Engineering Co., Inc. Ball cleaning apparatus. 3,150,392, 9–29–64, Cl. 15—4.
Mold-A-Rama, Inc.: *See*—
Miller, John H., and Helms. 3,135,814.
Molding Engineers, Inc.: *See*—
Stevens, Robert G. 3,144,711.
Moles, Warren H., and R. N. Rhodes, to Radio Corp. of America. Burst detector and automatic chroma control. 3,135,825, 6–2–64, Cl. 178—5.4.
Moles, Warren H., and R. N. Rhodes, to Radio Corp of America. Color televison receiver control apparatus. 3,135,826, 6–2–64, Cl. 178—5.4.
Molho, Darius, to Lipha Lyonnaise Industrielle Pharmaceutique S.A. New coumarin- and α-pyrone-3-carboxamides. 3,122,557, 2–25–64, Cl. 260—295.
Molho, Darius, E. Boschetti, and L. Fontaine, to Lipha, Lyonnaise Industrielle Pharmaceutique. Indane-1,3-dione rodenticide. 3,153,612, 10–20–64, Cl. 167—46.
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Staaf, Gustav Å., and Molin. 3,130,886.
Molinari, Jerry L.: *See*—
Harbour, Marion E. 3,120,461.
Harbour, Marion E. 3,140,217.
Molinaro, Bernard J. Christmas tree ornament hanger. 3,123,514, 3–3–64, Cl. 161—16.
Moline, Douglas A.: *See*—
Anderson, Robert J., and Moline. 3,131,900.
Moline, Robert E.: *See*—
Del Faro, Gordon P., Moline, and Conaway. 3,120,940.
Molins, Desmond W., to Molins Machine Co. Ltd. Collection of cigarettes for packing. 3,129,547, 4–21–64, Cl. 53—151.
Molins, Desmond W., to Molins Machine Co. Ltd. Containers for cigarettes. 3,132,746, 5–12–64, Cl. 211—134.
Molins, Desmond W., and T. Rowlands, to Molins Machine Co. Ltd. Manufacture of mouthpiece cigarettes. 3,119,-397, 1–28–64, Cl. 131—94.
Molins, Desmond W., and T. Rowlands, to Molins Machine Co. Ltd. Manufacture of mouthpiece cigarettes. 3,136,320, 6–9–64, Cl. 131—94.
Molins, Desmond W., R. H. G. Raine, and A. G. Jefferys, to Molins Machine Co. Ltd. Apparatus for supplying cigarettes to cigarette packing machines. 3,152,680, 10–13–64, Cl. 198—20.
Molins Machine Co. Ltd.: *See*—
Brooke, Edric R. 3,144,925.
Chalmers, John W., Hall, and Roffey. 3,118,455.
Gagg, James. 3,119,211.
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Hall, Charles T. 3,118,263.
Jackson, Donald R. P. 3,127,056.
Jackson, Donald R. P. 3,151,014.
Jackson, Donald R. P. 3,152,945.
Jefferys, Albert G. 3,162,546.
Labbé, Francis A. M. 3,125,099.
Mason, James A. 3,153,472.
Molins, Desmond W. 3,129,547.
Molins, Desmond W. 3,132,746.
Molins, Desmond W., Raine, and Jefferys. 3,152,680.
Molins, Desmond W., and Rowlands. 3,119,397.
Molins, Desmond W., and Rowlands. 3,136,320.
Orloff, George, and Nisbet. 3,139 302.
Powell, Gordon F. W., Pocock, and Crosland. 3,159,746.
Rowlands, Tom. 3,118,454.
Rowlands, Tom. 3,122,974.
Rowlands, Tom. 3,131,612.
Rowlands, Tom. 3,143,202.
Rowlands, Tom. 3,151,513.
Rowlands, Tom, and Mason. 3,140,632.
Smith, George. 3,127,007.
Stone, Horace A. 3,138,341.
Molitor, Robert P., and C. E. Smith, to A. G. Spalding & Bros., Inc. Inflated game ball. 3,119,618, 1–28–64, Cl. 273—65.
Mölke, Wolfgang: *See*—
Spier, Hans K., Mölke, and Seyderhelm. 3,133,639.
Moll, Charles J., Jr., to Brown & Williamson Tobacco Corp. Smoking articles having encapsulated tobacco additives and their manufacture. 3,162,199, 12–22–64, Cl. 131—9.
Moll, Klaus: *See*—
Smeykal, Karl, Pritzkow, Knopel, Unger, and Moll. 3,119,886.
Moll, Robert, to Condor S.A. Workpiece-locating vise for use in a machine-tool. 3,145,022, 8–18–64, Cl. 269—25.
Moll, Valentin, to Clevite Corp. Alloying fixture. 3,140,-683, 7–14–64, Cl. 113—99.
Moll, Wayne E.: *See*—
Martino, Louis J., Moll, and Weimer. 3,144,968.
Mollard, Paul: *See*—
Berthoux, Jean, Mollard, and Papp. 3,132,921.
Mollenberg, Leroy, to General Electric Co. Fan-cooled dynamoelectric machine. 3,135,882, 6–2–64, Cl. 310—57.
Möllenbruck, Wolfgang, to Werner & Pfleiderer. Mixing and agglomerating device for thermoplastic material. 3,155,-376, 11–3–64, Cl. 259—43.
Moller, Bynum W. Rear view mirror construction. 3,151,-207, 9–29–64, Cl. 88—86.
Moller, Carl G. Display device. 3,145,492, 8–25–64, Cl. 40—103.
Möller, Hans G., C. W. Busch, and F. W. Kallmeyer, said Möller and Busch, assor., to Atlas-Werke Aktiengesellschaft. Production of a picture of the true paths of motion of radar targets. 3,128,460, 4–7–64, Cl. 343—5.
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Süs, Oskar, and Möller. 3,126,281.
Moller, Reinhold: *See*—
Kammann, Werner, and Moller. 3,158,885.
Moller, Waldemar, to Bodenseewerk Perkin-Elmer u. Co. G.m.b.H. Angular position transducer. 3,123,785, 3–3–64, Cl. 336—135.
Möller, Waldemar, to Bodenseewerk Perkin-Elmer & Co., G.m.b.H. Damped gyroscope for control purposes. 3,142,-181, 7–28–64, Cl. 74—5.
Möller, Waldemar, to Bodenseewerk Perkin-Elmer & Co., G.m.b.H. Automatic flight control device. 3,142,792, 7–28–64, Cl. 318—489.
Möller, Waldemar. Pickoff system for gyroscope control. 3,142,993, 8–4–64, Cl. 74—5.6.
Möller, Waldemar, to Bodenseewerk Perkin-Elmer & Co., G.m.b.H. Crank gear with adjustable crank arm length, in particular for rotary oscillating tables. 3,161,067, 12–15–64, Cl. 74—42.
Moller, Wilhelm: *See*—
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Molletta, Joseph S.: *See*—
Barrios, Hector R., Molletta, and Nordberg. 3,140,968.
Mollick, Milton, to Ametek, Inc. Pilot positioner. 3,129,-719, 4–21–64, Cl. 137—489.

Mollick, Milton, to Ametek, Inc. Electric transducer. 3,136,969, 6–9–64, Cl. 338—41.
Mollick, Milton, to Ametek, Inc. Instrument for recording temperature and method of calibration thereof. 3,147,610, 9–8–64, Cl. 73—1.
Mollinga, Thomas, to Burroughs Corp. Highly linear ramp signal generator. 3,156,832, 11–10–64, Cl. 307—88.5.
Mollis, Russell C.: *See*—
Wesstrom, Alfred, Sanders, and Mollis. 3,158,930.
Molloy, Brian J., to Molloy Mfg. Co. Fluid dump valve. 3,150,857, 9–29–64, Cl. 251—63.
Molloy, Louis B., and O. D. A. C. Furlong, to Normalair Ltd. Pressurisation systems for aircraft. 3,152,534, 10–13–64, Cl. 98—1.5.
Molloy Mfg. Co.: *See*—
Molloy, Brian J. 3,150,857.
Mollring, Gilman B. Apparatus for pulverizing and dispersing solid material into liquid suspension. 3,160,352, 12–8–64, Cl. 241—98.
Mollring, Howard S. Automatic cycling valve for fluid treatment systems. 3,138,553, 6–23–64, Cl. 210—134.
Molmud, Paul, to Space Technology Laboratories, Inc. Method and apparatus for communicating through a region of ionized gas. 3,133,250, 5–12–64, Cl. 325—65.
Molon Motor & Coil Corp.: *See*—
Lord, Jack. 3,153,159.
Moloney Electric Co.: *See*—
Winter, David F., and Chase. 3,157,850.
Molotzak, George C. Boat with adjustable longitudinal planing device. 3,120,210, 2–4–64, Cl. 114—66.5.
Moloney, Herbert J. Salt water conversion plants. 3,159,474, 12–1–64, Cl. 62—58.
Molson Breweries Ltd.: *See*—
Fisher, Kenneth A. 3,158,055.
Molt, Otto P. Compression springs for mattresses, upholstered furniture, and the like. 3,161,408, 12–15–64, Cl. 267—1.
Moltchan, Floyd J. Foldable canopy. 3,121,439, 2–18–64, Cl. 135—7.1.
Moltchan, Floyd J. Method and apparatus for forming continuously moving strip material. 3,140,739, 7–14–64, Cl. 153—2.
Molter, Rudolph E. Fishing rig with tip-up. 3,147,563, 9–8–64, Cl. 43—17.
Molvig, Ludwig, Jr.: *See*—
Mulquin, William R., and Molvig. 3,125,229.
Molzan, Albert R., and E. F. White, to Aeroquip Corp. Cargo sling. 3,120,403, 2–4–64, Cl. 294—74.
Mo-Mac Mfg. Co., Inc.: *See*—
Linder, Marshall L. 3,128,724.
Momberg, James W., and E. W. Taylor, to The Singer Co. Sewing machine with built-in electric speed-responsive regulating systems. 3,141,429, 7–21–64, Cl. 112—220.
Momberg, James W., and R. W. Graft, to The Singer Co. Sewing machine and carrying case with electrical adapter. 3,145,675, 8–25–64, Cl. 112—258.
Mommsen, Gordon: *See*—
Anderson, Gerald C., Mommsen, Schuette, Straub, and Zimmerman. 3,149,557.
Momozaki, Junjiro: *See*—
Matsuzuka, Kiyoto, Momozaki, and Shirane. 3,141,764.
Momsen, Charles B., Jr. Hydrodynamic travelling wave propulsion apparatus. 3,154,043, 10–27–64, Cl. 115—.5.
Monaci, Avito: *See*—
Bonvicini, Alberto, Monaci, and Cappuccio. 3,131,990.
Monaco, Anthony T.: *See*—
Lindeman, Richard J., and Monaco. 3,136,966.
Monaco, Anthony T., and R. S. Sobie, to Motorola, Inc. Cathode ray tube protective front panel device. 3,146,305, 8–25–64, Cl. 178—7.82.
Monaco, Foster F. and R. R. Food-service device. 3,130,288, 4–21–64, Cl. 219—43.
Monaco, Rosario R.: *See*—
Monaco, Foster F. and R. R. 3,130,288.
Monaghan, Alfred C., to Serv-All Machinery Corp. Packaging machine. 3,158,973, 12–1–64, Cl. 53—66.
Monaghan, Cecil Z., and N. J. Christophers. Easy-up ladder support. 3,123,178, 3–3–64, Cl. 182—97.
Monaghan, Ralph, to Well Surveys, Inc. Neutron-gamma geophysical prospecting method and apparatus. 3,127,512, 3–31–64, Cl. 250—71.5.
Monagle, James J.: *See*—
Trax, Alan M., and Monagle. 3,162,933.
Monahan, Edward J., to National Biscuit Co. Method for continuously wrapping biscuits. 3,127,273, 3–31–64, Cl. 99—171.
Monahan, Jack J.: *See*—
Campbell, Hobart T., Monahan, and Roeder. 3,117,345.
Campbell, Hobart T., Monahan, and Roeder. 3,144,168.
Campbell, Hobart T., Monahan, and Roeder. 3,151,359.
Campbell, Hobart T., Monahan, and Roeder. 3,157,911.
Monahan, Jack J., to Western Electric Co., Inc. Apparatus for feeding polarized articles. 3,147,867, 9–8–64, Cl. 214—1.
Monahan, Joseph E.: *See*—
Cohler, Edmund U., and Monahan. 3,144,563.
Monahan, William C. Unitary paper towelling rack. 3,160,361, 12–8–64, Cl. 242—55.2.
Monahon, Richard M., to Oil Equipment Laboratories, Inc. Devices for transferring pressurized liquid between containers. 3,131,733, 5–5–64, Cl. 141—349.
Monarch Aluminum Mfg. Co.: *See*—
Keating, John H. 3,123,658.
Monarch Machine Tool Co., The: *See*—
Meyer, Henry F. 3,122,310.
Monarch Molding, Inc.: *See*—
Gasper, Arthur D. 3,132,645.
Monarch Tool Co.: *See*—
Kortick, Morris. 3,118,214.
Monarch Tool & Machinery Co.: *See*—
Budreck, Frances. 3,127,653.
Moncrieff, Alexander D. F., to Michigan Tool Co. Indexing device. 3,146,640, 9–1–64, Cl. 74—826.
Moncure, Jewett P. Apparatus for processing crabs. 3,156,946, 11–17–64, Cl. 17—2.
Moncure, Jewett P. Methods for processing crabs. 3,156,949, 11–17–64 Cl. 17—45.
Mondano, Ralph L., to Raytheon Co. Laminated plastic structure. 3,150,030, 9–22–64, Cl. 161—68.
Monday, William C., to United States of America, Atomic Energy Commission. Timing mechanism. 3,156,851, 11–10–64, Cl. 317—157.
Monday, Zephyr, to U-Stretch Corp. Speed changer for knitting machine. 3,158,013, 11–24–64, Cl. 66—56.
Monday, Zephyr, to U-Stretch Corp. Elastic bobby sock top. 3,159,990, 12–8–64, Cl. 66—172.
Mondineu, Rémy E. R. Vertically adjustable folding table. 3,138,122, 6–23–64, Cl. 108—112.
Mondon, Pierre R. J.: *See*—
Altovsky, Voldemar A., and Mondon. 3,162,852.
Altovsky, Voldemar A., Mondon, and Camerini. 3,129,426.
Mondot, Jacques: *See*—
Beaujard, Louis, Mondot, and Kapluszak. 3,159,756.
Mondschein, Morton, 20% to C. P. Spiecens. Information storage apparatus. 3,147,461, 9–1–64, Cl. 340—173.
Monell, Bradner N.: *See*—
Ludwig, Alfons, and Monell. 3,131,710.
Monelli, Riccardo, to Pirelli Societa per Azioni. Joints for electric cables having anti-torsional armour. 3,134,843, 5–26–64, Cl. 174—88.
Monet, Edwin T.: *See*—
Remke, Theodore K., and Monet. 3,120,972.
Moneymaker, John R.: *See*—
Buddemeyer, Bruce D., and Moneymaker. 3,141,030.
Buddemeyer, Bruce D., and Moneymaker. 3,146,110.
Monfort, Earl G., to Winthrop Enterprises. Knockdown bulk container. 3,156,370, 11–10–64, Cl. 217—15.
Mong, Bernard A.: *See*—
Breazeale, William M., Edlund, and Mong. 3,140,980.
Mongan, John L., and T. G. Hiniker, to General Electric Co. Steam turbine-gas turbine power plant. 3,150,487, 9–29–64, Cl. 60—39.18.
Monical, Forrest V., to Commercial Solvents Corp. Granular cyclotrimethylenetrinitramine explosive coated with alkyl amide and microcrystalline wax. 3,138,496, 6–23–64, Cl. 149—11.
Monick, John A., to Colgate-Palmolive Co. Alcohol fuel gel. 3,148,958, 9–15–64, Cl. 44—7.
Monick, John A., and W. H. Lehmacher, to Colgate-Palmolive Co. Process for drying higher fatty acid sarcosines. 3,152,947, 10–13–64, Cl. 159—49.
Monigal, Harold. Variable gear game. 3,134,593, 5–26–64, Cl. 273—1.
Moniot, Vincent E. Reflector device. 3,151,395, 10–6–64, Cl. 32—69.
Monitor Tool & Finding Co.: *See*—
Grabowski, Edmund P. 3,154,859.
Monk, Clarence B., Jr. Load bearing multiple panel unit. 3,162,982, 12–29–64, Cl. 50—368.
Monk, Ellis E. Communion glass washer. 3,163,320, 12–29–64, Cl. 220—102.
Monk, Howard H., to The Brearley Co. Bathroom scale. 3,128,838, 4–14–64, Cl. 177—181.
Monk, James T., to M-R-S Mfg. Co. Ejector type scraper. 3,152,410, 10–13–64, Cl. 37—124.
Monk, James T., to M-R-S Mfg. Co. Steering apparatus. 3,161,254, 12–15–64, Cl. 180—79.2.
Monka, Allan G.: *See*—
Sweet, Ray D., Monka, and Weisz. 3,118,123.
Monks, Joseph R., Jr., to Owens-Illinois Glass Co. Glass melting method. 3,150,991, 9–29–64, Cl. 106—52.
Monks, William W., to E. D. Jones Corp. Pulping apparatus. 3,145,936, 8–25–64, Cl. 241—46.
Monnen, Chester T., to Aeroquip Corp. Floating swimming pool hose. 3,130,753, 4–28–64, Cl. 138—122.
Monnet, Georges, to Compagnie de St.-Gobain. Apparatus and method for counterbalancing of rotating bodies. 3,130,523, 4–28–64, Cl. 51—119.
Monnot, George, R. Vichnievsky, J. Ollier, and G. Grosshans, to Institut Francais du Petrole, des Carburants et Lubrifiants. Process for improving the operating conditions of compression ignition engines, the work cycle of which comprises a scavenging phase. 3,125,077, 3–17–64, Cl. 123—32.
Monobelting Corp., The: *See*—
Stiltner, Marshall A. 3,129,806.
Mono-Cam Ltd.: *See*—
Friedlander, William. 3,127,841.
Martyn, Laurence F., and Pole. 3,157,173.
Monomakhoff, Alexandre, to Charbonnages de France. High-pitched horn. 3,160,877, 12–8–64, Cl. 340—384.
Monostat Corp.: *See*—
Cantor, Theodore. 3,138,104.

Monot, Pierre L. V. Box wrapper. 3,121,524, 2–18–64, Cl. 229—38.

Monotype Corp. Ltd., The: *See*—
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Monroe, Gordon R., and G. F. Mitchell, Jr., to Westinghouse Electric Corp. Transformer for connecting a three-phase system to a two-phase system. 3,129,377, 4–14–64, Cl. 321—57.

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Moore, Paul B., to Westinghouse Electric Corp. Air conditioning units. 3,128,610, 4–14–64, Cl. 62—263.
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Moorhead, Walter H. Can smasher. 3,138,090, 6–23–64, Cl. 100—233.
Moorman, Cletus L.: *See*—
Lyday, Richard W., and Moorman. 3,139,674.
Moorman, Cletus L., to General Motors Corp. Plastic fastener having double tapered point. 3,139,784, 7–7–64, Cl. 85—5.
Moorman, Earl J., and J. J. O'Connell, to General Motors Corp. Refrigeration apparatus including defrost means. 3,138,006, 6–23–64, Cl. 62—156.
Moorman Mfg. Co.: *See*—
Caldwell, Marion J. 3,147,120.
Moormann, Helmuth, to Ideal Toy Corp. Method and apparatus for molding a doll's head. 3,124,842, 3–17–64, Cl. 18—34.
Moors, Harold B., and D. K. Huang, to International Paper Co Paperboard overlap carton. 3,137,436, 6–16–64, Cl. 229—48.
Moote, Truman P., Jr.: *See*—
Gordon, Leon B., and Moote. 3,163,681.
Mopul, Inc.: *See*—
Crawford, Herman E. 3,122,906.
Morain, Clifford F. Apparatus for preparing coated and wrapped pipe for joining. 3,121,898, 2–25–64, Cl. 15—88.
Morain, Clifford F. Methods of protecting lengths of metal pipe. 3,157,549, 11–17–64, Cl. 156—253.
Morales, Juan A. Water closet tank and outlet valve. 3,148,381, 9–15–64, Cl. 4—56.
Moran, Clifford M.: *See*—
Vail, Sidney L., Moran, and Reid. 3,160,469.
Moran, Donald F., and F. A. Norris, to Swift & Co. Method of dehulling soybeans. 3,126,932, 3–31–64, Cl. 146—221.7.

Moran, George W. Dishwasher having means to inject liquid additive into the rinse water supply line. 3,139,890, 7–7–64, Cl. 134—100.
Moran, Glennon T.: *See*—
Delay, Manford S. 3,156,485.
Moran, J. Kenneth: *See*—
Gray, William P. Re. 25,610.
Moran, James: *See*—
Robinson, David E., and Moran. 3,135,650.
Moran, James H., to Schlumberger Well Surveying Corp. Induction method and apparatus for investigating earth formation utilizing two quadrature phase components of a detected signal. 3,147,429, 9–1–64, Cl. 324—6.
Moran, John M.: *See*—
Parrish, Edward W., and Moran. 3,139,938.
Moran, Joseph P.: *See*—
Chisholm, James P., and Moran. 3,139,142.
Moran, Michael J., to Decca Ltd. Doppler antenna array employing multiple slotted waveguides with feed switching. 3,135,959, 6–2–64, Cl. 343—768.
Moran, Michael J., to Decca Ltd. Slotted waveguide array with parabolic reflectors and lobe switching. 3,137,001, 6–9–64, Cl. 343—768.
Moran, Norman J., to Zenith Radio Corp. Television tuner having vernier knob individually clutchable to channel fine tuners with automatic declutching upon channel selection. 3,148,345, 9–8–64, Cl. 334—51.
Moran, Ronald W., to The Fafnir Bearing Co. Retainer for anti-friction bearings. 3,121,597, 2–18–64, Cl. 308—201.
Moran, Ronald W., to The Fafnir Bearing Co. Outer ring for antifriction bearing. 3,161,448, 12–15–64, Cl. 308—187.
Morand, Peter F., D. J. Marshall, and R. Deghenghi, to American Home Products Corp. 21-fluoro-17-methyl-11-oxygenated steroids. 3,162,630, 12–22–64, Cl. 260—239.55.
Morane, L., Etablissements: *See*—
Pahnke, Hans-Joachim, and Roux. 3,120,304.
Morano, Patrick J., to Glamorise Foundations, Inc. Girdle type undergarment. 3,131,698, 5–5–64, Cl. 128—523.
Morano, Patrick J., to Glamorise Foundations, Inc. Girdle type undergarments. 3,154,083, 10–27–64, Cl. 128—546.
Morasch, Henry. Garden tool. 3,143,984, 8–11–64, Cl. 111—7.1.
Moratti, Francesco, and C. Tosti, to Bombrini Parodi-Delfino Societa per Azioni. Retractable blade tail unit for projectiles. 3,127,838, 4–7–64, Cl. 102—50.
Moravek, Richard T.: *See*—
Bown, Delos E., and Moravek. 3,117,104.
Morbidelli, Giuseppe, L. Arosio, and L. Notarbartolo, deceased (E. Pascalino, administratrix, and P. Notarbartolo, heiress), to Snia Viscosa Societa' Nazionale Industria Applicazion Viscosa S.p.A. Process for the purification of caprolactam. 3,145,198, 8–18–64, Cl. 260—239.3.
Morceau, Marcel E. Vertically disposed mensuration device for pulling paper from rolls. 3,136,192, 6–9–64, Cl. 83—241.
Morceau, Marcel E. Cigar filter. 3,144,023, 8–11–64, Cl. 131—189.
Morcheles, Bernard, and N. L. D'Agostino, to Stacor Corp. Drawing board construction. 3,161,922, 12–22–64, Cl. 20—15.
Morck, Roland A., M. C. Harris, and D. W. Miller, to National Biscuit Co. Preparation of baked food products. 3,158,486, 11–24–64, Cl. 99—86.
Mordaunt, Roy J., to Minnesota Mining and Mfg. Co. Pressurized food package with hexafluorotrimethylene oxide as the propellant. 3,145,113, 8–18–64, Cl. 99—189.
Morden, John R., to Bertwall Gypsum Co. Sheet material drilling equipment. 3,161,214, 12–15–64, Cl. 144—110.
Mordstein, Walter, to Rheinische Braunkohlenwerke Aktiengesellschaft. Arrangement for inverting the sides of belts in endless conveyors and the like. 3,139,970, 7–7–64, Cl. 198—184.
Mordwinkin, George, to Laboratory for Electronics, Inc. Dual frequency unijunction transistor oscillator. 3,142,-024, 7–21–64, Cl. 331—60.
More, John D. Electrical outlet plug. 3,156,515, 11–10–64, Cl. 339—159.
More, Philip J.: *See*—
Urbank, Joseph R., and More. 3,154,357.
More, Philip J., to General Electric Co. Cooking appliance. 3,611,757, 12–15–64, Cl. 219—444.
More, Philip J., and H. A. Walz, to General Electric Co. Supporting and gasketing means for domestic cooking ovens. 3,131,684, 5–5–64, Cl. 126—19.
Moreau, Louis, to Societe de Vente d'Aimants Allevard-Ugine. Magnetic force control or switching system. 3,146,381, 8–25–64, Cl. 317—171.
Morecroft, Andrew S., and J. F. Szabat, to Mobay Chemical Co. Molding cellular polyurethane plastics. 3,154,606, 10–27–64, Cl. 264—54.
Morehead, Ennis E. Dumping tricycle. 3,152,838, 10–13–64, Cl. 298—17.
Morehead Mills: *See*—
Royster, William E. 3,130,535.
Morehouse, Edward L., and E. A. Zientek, to Union Carbide Corp. Antifreeze compositions. 3,121,692, 2–18–64, Cl. 252—75.
Morehouse, Edward L., and D. L. Bailey, to Union Carbide Corp. Reaction of silylamines with hydroxy-silicon compounds. 3,133,110, 5–12–64, Cl. 260—448.2.
Morehouse, Glenn H.: *See*—
Elmore, Austin E. 3,139,917.
Morehouse, Neal F., to Dr. Salsbur's Laboratories. Veterinary composition containing halo-nitrobenzamides and methods of using same. 3,161,564, 12–15–64, Cl. 167—53.
Moreines, Harold: *See*—
James, Robert L., Moreines, and Wattson. 3,150,303.
Moreines, Harold, to The Bendix Corp. Transfluxor with amplitude modulated driving pulse input converted to alternating sine wave output. 3,128,434, 4–7–64, Cl. 328—27.
Morel, Charles, to Geigy Chemical Corp. N-arylcarbamylglucosamines. 3,158,598, 11–24–64, Cl. 260—211.5.
Morel, Charles, to Geigy Chemical Corp. N-(arylcarbamoyl)- and N-(arylthiocarbamoyl)-glucosamines. 3,158,599, 11–24–64, Cl. 260—211.
Morel, Charles J., and W. G. Stoll, to Geigy Chemical Corp. New aryl glycosaminides. 3,152,115, 10–6–64, Cl. 260—210.
Morel, Emery B.: *See*—
Ulmer, Macy C., Morel, and Deffez. 3,145,917.
Morel, Emery B., H. A. Deffez, and J. F. Keogh. Radiator cap removing device. 3,121,355, 2–18–64, Cl. 81—90.
Morel, Frans A. M., to Laboratory For Electronics, Inc. Tiltable table for use in the radiological examination of patients. 3,149,229, 9–15–64, Cl. 250—55.
Morel, Frans A. M., and J. J. Vlach, to Laboratory for Electronics, Inc. X-ray table movable in two mutually perpendicular directions with a retractable radiation shield. 3,158,742, 11–24–64, Cl. 250—54.
Morel, Jacques: *See*—
Moser, Robert, and Morel. 3,123,742.
Moreland, Jim N., and P. Nybo, to General Electric Co. Sheet classifying system. 3,156,361, 11–10–64, Cl. 209—74.
Moreland, Robert S. Spare selector apparatus and method for setting less than ten pins for practice bowling. 3,123,-356, 3–3–64, Cl. 273—43.
Morelle, Jules L. E., to Optique & Precision de Levallois. Automatic diaphragm pre-selector for reflex photographic apparatus. 3,133,487, 5–19–64, Cl. 95—64.
Morello, Edwin F.: *See*—
Proell, Wayne A., Morello, Peters, and Butcher. 3,153,604.
Morello, Edwin F., to Standard Oil Co. Ammonium nitrate composition containing an alkali metal phthalocyanine combustion catalyst. 3,132,058, 5–5–64, Cl. 149—19.
Morello, Edwin F., to Standard Oil Co. Ammonium nitrate combustion catalyst. 3,153,603, 10–20–64, Cl. 149—19.
Morello, William, Jr., to Cannon Electric Co. Quick coupling device. 3,116,942, 1–7–64, Cl. 285—85.
Morelock, Charles R.: *See*—
Luborsky, Fred E., and Morelock. 3,132,022.
Morena, Diego J. Non-glare cover for windshield wiper. 3,160,906, 12–15–64, Cl. 15—250.35.
Moreno-Bañuelos, Ernesto, and L. B. Shelley. Combined cash register and adding machine. 3,127,101, 3–31–64, Cl. 235—9.
Moreo, Frank R.: *See*—
Baum, Morton S., and Moreo. 3,149,555.
Moreton, Douglas H., to Douglas Aircraft Co., Inc. Lubrication and hydraulic fluid composition. 3,118,841, 1–21–64, Cl. 252—78.
Moreton, Douglas H., to Douglas Aircraft Co., Inc. Fire-resistant hydraulic fluid and lubricant. 3,136,726, 6–9–64, Cl. 252—49.9.
Moretta, Giuseppe. Two feed circular knitting machine and method. 3,124,945, 3–17–64, Cl. 66—42.
Moretta, Giuseppe. Pneumatic tensioning device for circular knitting machines, particularly for circular machines for making stockings. 3,159,015, 12–1–64, Cl. 66—149.
Moretti, Whitfield W., and I. R. Hoxie, Jr., to Sperry Rand Corp. Pulse doppler tracking radar. 3,141,162, 7–14–64, Cl. 343—7.
Morey, Everett D.: *See*—
Bochan, John, and Morey. 3,146,196.
Morey, Everett D., to General Electric Co. Clothes dryer control system. 3,159,465, 12–1–64, Cl. 34—45.
Morey, Richard K.: *See*—
Morey, Willis R. and R. K. 3,162,066.
Morey, Willis R., and R. K. Starter guide for use in drilling holes in concrete and the like. 3,162,066, 12–22–64, Cl. 77—62.
Mor-Flo Industries, Inc.: *See*—
Buehl, Arnold L. 3,124,110.
Buehl, Arnold L., and Wenczl. 3,163,159.
Wenczl, Ernest. 3,124,108.
Morgan, Andrew: *See*—
Gordon, Homer K., and Morgan. 3,145,890.
Morgan, Arthur H., to The University of Tennessee Research Corp. Fruit decapper. 3,122,187, 2–25–64, Cl. 146—55.
Morgan, Carlton B. Mobile field fountain. 3,142,443, 7–28–64, Cl. 239—24.
Morgan, Clarence, to General Motors Corp. Sunshade assembly for a vehicle body. 3,151,907, 10–6–64, Cl. 296—97.
Morgan Co., Inc.: *See*—
Binner, Carl J. 3,121,263.
Morgan Construction Co.: *See*—
Hill, William J. 3,135,076.
Hill, William J., and Fay. 3,121,484.
Morgan, Myles, and Wilson. 3,162,070.
Morgan, Daniel J. Coaster for drinking glasses or the like. 3,137,956, 6–23–64, Cl. 40—324.
Morgan, David L., and L. A. Godkin, to Robertshaw Controls Co. Float valve. 3,139,897, 7–7–64, Cl. 137—448.
Morgan, Derek W., to Aids, Inc. Projector. 3,143,035, 8–4–64, Cl. 88—24.

Morgan Engineering Co., The: *See*—
Bell, George H., Jr. 3,129,616.
Failor, Eugene W. 3,163,106.
Morgan, Eric R., to Jones & Laughlin Steel Corp. Method of producing high strength thin steel. 3,139,359, 6–30–64, Cl. 148—12.1.
Morgan Fairest Ltd.: *See*—
Fairest, Derek H. 3,138,508.
Morgan, Furman D., and J. R. Woods. Disposal device for glass articles. 3,151,814, 10–6–64, Cl. 241—99.
Morgan, Gary W., to Radio Corp. of America. Casing for portable electrical apparatus. 3,124,266, 3–10–64, Cl. 220—4.
Morgan, Gerard E., to John T. Ridell, Inc. Shoulder pad construction. 3,158,871, 12–1–64, Cl. 2—2.
Morgan, Harry C.: *See*—
Campbell, Josiah C., Jr., and Morgan. 3,159,387.
Hart, James P., Klein, Morgan, and Rush. 3,140,469.
Morgan, Harry E., to Crescent Box Corp. Knock-down box. 3,116,867, 1–7–64, Cl. 229—34.
Morgan, Harry L.: *See*—
McClure, Thomas V., McNutt, Morgan, and Oberholtzer. 3,137,056.
Morgan, Hugh M., to Minneapolis-Honeywell Regulator Co. Pressure operated regulating valve and control device. 3,135,281, 6–2–64, Cl. 137—110.
Morgan, Jack, and E. D. Zuck, to Ametek, Inc. Gauge. 3,162,-173, 12–22–64, Cl. 116—129.
Morgan, Jack F., to General Aniline & Film Corp. Dispersing dispersed acetate dyes and a lignin sulfonate alkyl naphthylene sulfonate and sulfo carboxylic acid alkyl ester mixture therefore. 3,153,564, 10–20–64, Cl. 8—83.
Morgan, Jake E., and O. D. Schoolcroft. Milk carton. 3,123,-278, 3–3–64, Cl. 229—52.
Morgan, Jasper. Boat hull. 3,138,130, 6–23–64, Cl. 114—57.
Morgan, Jesse P.: *See*—
Puster, Louis M., and Morgan. 3,155,317.
Morgan, John M., Jr.: *See*—
Seidel, William B., Morgan, and Gosney. 3,139,083
Morgan, John S., to Western Gear Corp. Rotary reaction transmission. 3,145,574, 8–25–64, Cl. 74—63.
Morgan, John V.: *See*—
Spencer, Harry E., and Morgan. 3,121,023.
Morgan, John W., and C. A. McLeod, to Sunbeam Corp. Indicator. 3,142,148, 7–28–64, Cl. 58—126.
Morgan, Joseph A.: *See*—
Bernard, Herbert J., and Morgan. 3,129,957.
Morgan, Leslie B.: *See*—
Gomm, Albert S., Morgan, and Wood. 3,156,574.
Morgan, Lyman W., to Phillips Petroleum Co. Method of controlling fluid in process and an accumulator therefor. 3,124,519, 3–10–64, Cl. 202—40.
Morgan, Marcus S., A. W. Simon, and M. H. Wilt, to United States Steel Corp. Process for the oxidation of partially hydrogenated polycyclic aromatic and heterocyclic compounds. 3,163,657, 12–29–64, Cl. 260—335.
Morgan, Myles, and A. I. Wilson, to Morgan Construction Co. Roll adjusting means. 3,162,070, 12–22–64, Cl. 80—56.
Morgan Packing Co., Inc.: *See*—
Garriott, Donald H., and Hill. 3,147,780.
Morgan, Paul A., to King Bee Mfg. Co. Vehicle lamp mounting. 3,130,921, 4–28–64, Cl. 240—8.2.
Morgan, Perry W., Jr., and H. D. Royce, deceased, by M. B. Royce, executrix, to Hunt Food and Industries, Inc. Method and apparatus for emulsifying and texturating fats. 3,142,971, 8–4–64, Cl. 62—342.
Morgan, Philip R., to 33⅓, M. Skoff, and 33⅓, J. B. Alberts. Stylus wear indicator. 3,147,916, 9–8–64, Cl. 235—91.
Morgan, Ray F., to The Morgan Sign Machine Co. Layout chase. 3,124,067, 3–10–64, Cl. 101—394.
Morgan, Raymond E., to General Electric Co. Lock out control circuit for power amplifier. 3,128,396, 4–7–64, Cl. 307—88.5.
Morgan, Raymond E., to General Electric Co. On-time silicon controlled rectifier circuit. 3,138,722, 6–23–64, Cl. 307—88.5.
Morgan, Raymond W., and W. E. Baker. Watercraft preserver. 3,121,888, 2–25–64, Cl. 9—3.
Morgan, Robert C., to British European Airways Corp. Airplane seats. 3,145,052, 8–18–64, Cl. 297—354.
Morgan, Robert C. Switch button retainer for vehicle doors. 3,158,726, 11–24–64, Cl. 200—169.
Morgan, Robert E.: *See*—
Donley, Carson O., Kuiper, Scheibe, and Morgan. 3,157,066.
Morgan, Robert W.: *See*—
Heiser, Edward J., and Morgan. 3,153,610.
Morgan, Robert W., and M. J. Hatch, to The Dow Chemical Co. Paper containing a polymer mixture of polysulfonium resin and polycarboxylate resin. 3,146,157, 8–25–64, Cl. 162—164.
Morgan, Rubie F. Fume eliminator. 3,146,072, 8–25–64, Cl. 23—277.
Morgan, Russell H.: *See*—
Strum, Ralph E., and Morgan. 3,127,568.
Morgan, Ruth M., ½ to Agnes Wagoner. Convenience cabinet unit. 3,162,496, 12–22–64, Cl. 312—228.
Morgan Sign Machine Co., The: *See*—
Morgan, Ray F. 3,124,067.
Morgan, Stuart H.: *See*—
Brice, Herbert J., Jr., Houlton, and Morgan. 3,131,140.
Morgan, Walter A., to Esso Research and Engineering Co. Electromagnet for supporting and dropping weights. 3,120,631, 2–4–64, Cl. 317—157.
Morgan, Walter A., to Esso Research & Engineering Co. Reciprocating motor control system. 3,134,938, 5–26–64, Cl. 318—130.
Morgan, Walter L., II, to United States of America, Navy. Magnetic memory and switching circuit. 3,143,727, 8–4–64, Cl. 340—174.
Morgan, Willard L., and C. A. Matuszak, to Owens-Corning Fiberglas Corp. Foamable composition comprising a phenol aldehyde resole or a chlorinated diphenyl oxide containing a coated neutralizing agent. 3,138,563, 6–23–64, Cl. 260—2.5.
Morgan, William C., to General Precision, Inc. Insulated exploding bridgewire header. 3,160,789, 12–8–64, Cl. 317—80.
Morgan, William C., R. C. Rhoades, and R. H. F. Stresau. Solid dielectric exploding bridgewire series safety element. 3,157,120, 11–17–64, Cl. 102—28.
Morgan, William F.: *See*—
Lamb, Charles A., Morgan, and Neill. 3,122,470.
Morgan, William H., Jr.: *See*—
Rulon, Richard M., Morgan, and Harris. 3,153,167.
Morganite Resistors Ltd.: *See*—
Watkins, John. 3,150,342.
Morganstern, Kennard H., to Radiation Dynamics, Inc. Vehicle identification system. 3,117,754, 1–14–64, Cl. 246—2.
Morgenroth, Henri. Scavenging flow circuit for stirling cycle engine. 3,145,527, 8–25–64, Cl. 60—24.
Morgenson, Donald J., to Shatter King Mfg. Co., Inc. Trash crusher. 3,155,028, 11–3–64, Cl. 100—96.
Morgenstern, Herbert C.: *See*—
Koniewiez, Paul, Korwin, and Morgenstern. 3,127,248.
Morgeson, Forrest V.: *See*—
Jordan, Trueman P., Wand, and Morgeson. 3,131,468.
Mori, Hisao: *See*—
Simamura, Osamu, Tsuchiya, Takenishi, Kato, Mori, and Meguro. 3,160,625.
Mori, Johnie H.: *See*—
Starling, Allen L., Mori, and McDermott. 3,163,383.
Mori, Kyosuke. Garage for use in car parks. 3,153,488, 10–20–64, Cl. 214—16.1.
Mori, Takajiro: *See*—
Kijima, Shizumasa, Naito, and Mori. 3,122,565.
Mori, Takeshi, to Christensen Diamond Products Co. Wire line core barrel. 3,127,943, 4–7–64, Cl. 175—246.
Morian, Harold L., Jr., to Arthur D. Little, Inc. Mirror assembly for an arc imaging furnace. 3,155,813, 11–3–64, Cl. 219—383.
Moriguchi, Yoshiro: *See*—
Sato, Akihiko, and Moriguchi. 3,122,460.
Morii, Eiji, K. Iwata, and M. Shamoto, to Meito Sangyo Kabushiki Kaisha. Enteric-coated tablets, of dextran sulfate ester and method of preparation thereof. 3,126,320, 3–24–64, Cl. 167—82.
Morii, Eji, K. Iwata, and H. Kokkoku, to Meito Sangyo Kabushiki Kaisha. Sodium and potassium salts of the dextran sulphuric acid ester having substantially no anticoagulant activity but having lipolytic activity and the method of preparation thereof. 3,141,014, 7–14–64, Cl. 260—234.
Morimoto, Satoshi: *See*—
Muroi, Tadashi, Onishi, Morimoto, and Yamauchi. 3,154,479.
Morin, Dolore B.: *See*—
Hershberger, Olin C., and Morin. 3,127,631.
Hershberger, Olin C., and Morin. 3,148,403.
Hershberger, Olin C., Morin, and Langlois. 3,139,308.
Morin, Lawrence L. String holder. 3,127,128, 3–31–64, Cl. 242—129.5.
Morin, Louis H. One-sided separable fasteners. 3,121,929, 2–25–64, Cl. 24—205.1.
Morin, Louis H. Hold-open automatic lock sliders. 3,121,930, 2–25–64, Cl. 24—205.14.
Morin, Louis H. Low silhouette compression slider. 3,127,-654, 4–7–64, Cl. 24—205.14.
Morin, Louis H. Separable fastener. 3,129,478, 4–21–64, 4–21–64, Cl. 24—205.12.
Morin, Louis H. Slide fastener. 3,129,479, 4–21–64, Cl. 24—205.12.
Morin, Louis H. Chain-type speed reducer. 3,130,608, 4–28–64, Cl. 74—797.
Morin, Louis H., to Coats & Clark Inc. Traveler with frictional resistance means. 3,133,404, 5–19–64, Cl. 57—125.
Morin, Louis H., to Coats & Clark Inc. Traveler having magnetic characteristics. 3,141,289, 7–21–64, Cl. 57—125.
Morin, Louis H., to Coats & Clark Inc. Method of making film coated wire travelers. 3,141,914, 7–21–64, Cl. 264—275.
Morin, Louis H. Trim machine for performing supplementary piercing operation and an interlocked safety stop on a slider cast. 3,144,799, 8–18–64, Cl. 83—555.
Morin, Louis H. Method and apparatus of obtaining precise nozzle contact on plastic injection molding machines. 3,145,244, 8–18–64, Cl. 264—328.
Morin, Louis H. Invisible slide fastener. 3,153,830, 10–27–64, Cl. 24—205.1.
Morin, Roger W.: *See*—
Meckstroth, Robert C., Sulek, Morin, Day, Silcott, and Davies. 3,139,026.
Puterbaugh, William H., Clinehens, Morin, Schroeder, and Austen. 3,125,673.

Moring, Fred: *See*—
Forsyth, Bruce W., and Moring. 3,137,441.
Moring, Walter G., Jr., and F. H. Weihs, to Toledo Scale Corp. Conveyor weighing scale. 3,141,516, 7–21–64, Cl. 177—246.
Morini, Marcello, and T. Sabatini, to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Process for the production of a long-lasting stable solution of formaldehyde-melamine condensation products, and the new stable product thereof. 3,159,593, 12–1–64, Cl. 260—29.4.
Moriondo, Ezio: *See*—
Cafulli, Annamaria, and Moriondo. 3,119,190.
Moriondo, Roberto: *See*—
Alfieri, Giuseppe, and Moriondo. 3,121,573.
Morisawa, Nobuo. Photographic composing machines. 3,132,-602, 5–12–64, Cl. 95—4.5.
Morita, Sadayoshi, T. Ito, and A. Yamada, to Yawata Iron & Steel Co., Ltd. Method of welding silicon steel. 3,142,-116, 7–28–64, Cl. 29—480.
Morita, Shugo: *See*—
Fujimoto, Kobun, Miwa, and Morita. 3,151,943.
Miwa, Ichiro, and Morita. 3,133,953.
Morito, Nozomu: *See*—
Noda, Tamotsu, and Morito. 3,126,477.
Moritz, Fred: *See*—
Ordorica, Vincent, Moritz, and Leavitt. 3,154,946.
Moritz, James O., to Sylvania Electric Products, Inc. Gated amplifier. 3,155,911, 11–3–64, Cl. 328—102.
Moritz, Karsten H., and J. F. Moser, Jr., to Esso Research and Engineering Co. Process for gasification of hydrocarbons to hydrogen and carbon monoxide. 3,128,164, 4–7–64, Cl. 48—212.
Moriya, Tomijiro. High lift device for aircrafts due to supercirculation. 3,147,937, 9–8–64, Cl. 244—42.
Mork, George W., to Bucyrus-Erie Co. Convertible crane. 3,149,730, 9–22–64, Cl. 212—59.
Mork, George W., R. L. Bauer, and M. D. Wolff, to Bucyrus-Erie Co. Disconnect means. 3,125,226, 3–17–64, Cl. 212—38.
Morkoski, James, and A. G. Evans, to International Harvester Co. Disk harrow wing locking device. 3,123,153, 3–3–64, Cl. 172—640.
Morland, George W.: *See*—
Stansfield, Frank M., Glasspoole, Morland, and Bradshaw. 3,125,082.
Morletti, William J. Means for arranging and hanging a plurality of decorative pieces on a wall. 3,117,672, 1–14–64, Cl. 211—87.
Morley, David H., and W. W. Schultz, to General Electric Co. Wear measurement without introducing radioactive material into the system. 3,128,381, 4–7–64, Cl. 250—106.
Morley, Fred W. Flag pole. 3,124,100, 3–10–64, Cl. 116—173.
Morley, Frederick W. W., to Rolls-Royce Ltd. Gas turbine engines. 3,121,526, 2–18–64, Cl. 230—116.
Morley, Frederick W. W., G. C. May, and N. A. Kerridge, to Rolls-Royce Ltd. Jet propulsion nozzle arrangements. 3,163,000, 12–29–64, Cl. 60—35.6.
Morley, Harland A., and M. Benko. Full nozzle abrasive blast apparatus. 3,149,438, 9–22–64, Cl. 51—8.
Morley, Richard E.: *See*—
Dow, Frederick J. T., Morley, and Gorman. 3,159,823.
Pearson, Robert T., and Morley. 3,148,362.
Morley, Robert I., to North American Aviation, Inc. Differential forcing apparatus. 3,141,530, 7–21–64, Cl. 188—163.
Morley, Robert I., and W. A. Farrand, to North American Aviation, Inc. Handler for folding tape. 3,123,269, 3–3–64, Cl. 226—118.
Morley, William E.: *See*—
Estes, Nelson N., Zeitz, and Morley. 3,163,806.
Morling, Roy W., to International Harvester Co. Conveyor belt pulley. 3,122,935, 3–3–64, Cl. 74—241.
Mornas, Jean-Philippe, to Compagnie des Ateliers et Forges de la Loire. Method for controlling the flow of solid pulverulent substances. 3,163,329, 12–29–64, Cl. 222—1.
Morner, Bengt O. J. S., to Partner, Aktiebolaget. Mechanisms for transforming a continuous rotary movement into an intermittent rotary movement. 3,136,167, 6–9–64, Cl. 74—125.
Morningstar Corp.: *See*—
Burgess, Frank H., Mathus, and Morningstar. 3,138,-250.
Morningstar, Elbert J. Explosive bearing cleanout. 3,131,-418, 5–5–64, Cl. 15—406.
Morningstar, Otto: *See*—
Burgess, Frank H., Mathus, and Morningstar. 3,138,-250.
Moro, Antonio, to Soc. per Azioni Fratelli Borletti. Zig-zag sewing machine. 3,160,126, 12–8–64, Cl. 112—158.
Morong, William H., Jr., J. F. Seamman, and C. A. Clarke, Jr., to General Electric Co. Single stator three-phase network induction watthour meter. 3,150,317, 9–22–64, Cl. 324—107.
Moross, John R.: *See*—
Gault, John M., and Moross. 3,128,213.
Moroz, Walter: *See*—
Katscher, Ernst, and Moroz. 3,147,269.
Morphet, John C., Jr., to International Business Machines Corp. Skew indicator. 3,154,762, 10–27–64, Cl. 340—172.5.
Morphew, Laurence R., to Ford Motor Co. Latch mechanism 3,132,885, 5–12–64, Cl. 292—280.
Morphy-Richards (Astral) Ltd.: *See*—
Ferguson, John R. 3,142,163.
Morpul, Inc.: *See*—
Laws, Rufus F., and Hoots. 3,162,029.
Morpul Research Corp.: *See*—
Hartshorn, Cyril. 3,129,979.
Sampson, Claude C., and Beene. 3,129,573.
York, Raymond P., and Carmichael. 3,120,860.
Morr, Ralph V., R. E. Crown, and W. F. Wint, to Avco Corp. Spinner type fertilizer spreader. 3,159,406, 12–1–64, Cl. 275—8.
Morra, Angelo: *See*—
Vaccari, Italo, Salle, Morra, and Colombo. 3,160,496.
Morrell, Donald E. Inflatable poultry house. 3,148,662, 9–15–64, Cl. 119—15.
Morrell, Jacque C. Polymerization catalyst comprising phosphoric acid and siliceous materials. 3,132,109, 5–5–64, Cl. 252—435.
Morrell, Jacque C. Lithium rocket propellants and process for using the same. 3,153,902, 10–27–64, Cl. 60—35.4.
Morrell, Jacque C. Lithium rocket propellants and process for using the same. 3,153,903, 10–27–64, Cl. 60—35.4.
Morrell, John, & Co.: *See*—
Brown, William L. 3,147,121.
Morren, Henri, to UCB (Union Chimique-Chemische Bedrijven) S.A. Substituted phenyl-piperazine compounds. 3,163,649, 12–29–64, Cl. 260—268.
Morrill, Harold A.: *See*—
Bolz, Bernhart A., and Morrill. 3,149,558.
Morrill, John D., to United Shoe Machinery Corp. Lasting machines. 3,157,897, 11–24–64, Cl. 12—10.5.
Morrill, Stephen A. Railway car. 3,149,583, 9–22–64, Cl. 105—368.
Morrill, Vaughan, Jr. Measuring apparatus for pipettes. 3,146,620, 9–1–64, Cl. 73—149.
Morrill, Wayne J. Eccentric winding alternating current dynamoelectric machine. 3,158,769, 11–24–64, Cl. 310—172.
Morris, Arthur K., to Dowty Mining Equipment Ltd. Fluid valves. 3,148,860, 9–15–64, Cl. 251—172.
Morris, Bud W.: *See*—
Bussey, Atlee H., Morris, and Ray. 3,160,949.
Morris, Carl R., to Whirlpool Corp. Method of making an insulated structure. 3,155,751, 11–3–64, Cl. 264—45.
Morris, Charles W. Planter. 3,126,847, 3–31–64, Cl. 111—4.
Morris, Clifford W., to FMC Corp. Arc furnace control system. 3,139,473, 6–30–64, Cl. 13—13.
Morris, Clyde W.: *See*—
Gunlock, Donald E., and Morris. 3,147,968.
Morris, Cyril: *See*—
Berrie, Alistair H., and Morris. 3,162,628.
Morris, Donald J. Boat standoff and locking device. 3,139,-852, 7–7–64, Cl. 114—230.
Morris, Edward H.: *See*—
Curtis, John L., Morris, and Walker. 3,120,362.
Morris, Elton K., and W. W. Bakke, to The Dow Chemical Co. Manufacture of monochloroacetic acid. 3,152,174, 10–6–64, Cl. 260—539.
Morris, Ewel J., Jr. Fallout shelter. 3,161,990, 12–22–64, Cl. 50—100.
Morris, Floyd M.: *See*—
Kath, Henry L., Jr., and Morris. 3,137,115.
Morris, Foster M.: *See*—
Hagmann, Foster M., Graham, and Morris. 3,121,913.
Morris, Frank E. Line cleaning equipment. 3,128,779, 4–14–64, Cl. 134—107.
Morris, George H. Press wheel and depth control attachment for disk. 3,118,506, 1–21–64, Cl. 172—184.
Morris, George H. Closure member. 3,120,035, 2–4–64, Cl. 20—62.
Morris, George H. Press wheel and depth control attachment for seed grain drills. 3,131,657, 5–5–64, Cl. 111—59.
Morris, George H. Duplex rotary rod weeder. 3,135,337, 6–2–64, Cl. 172—44.
Morris, George H. Rotary rod weeder. 3,135,338, 6–2–64, Cl. 172—44.
Morris, George H. Combined seeding, soil cultivating and weeding implement. 3,140,678, 7–14–64, Cl. 111—67.
Morris, George V.: *See*—
Hendrickson, Melvin C., and Morris. 3,140,346.
Morris, George V., to Zenith Radio Corp. Secrecy communication receiver. Re. 25,521, 2–11–64, Cl. 178—5.1.
Morris, George V., to United States of America, Army. Unit wound generator stator. 3,130,336, 4–21–64, Cl. 310—252.
Morris, George V., and E. M. Roschke, to Zenith Radio Corp. Communication receiver. 3,133,986, 5–19–64, Cl. 178—5.1.
Morris, George V., and P. V. Sarlund, to Zenith Radio Corp. Communication receiver. 3,155,211, 11–3–64, Cl. 194—1.
Morris, Harold D., to Systron-Donner Corp. Electronic filter with active elements. 3,122,714, 2–25–64, Cl. 330—181.
Morris, Harold D., to Systron-Donner Corp. Inertially based sequence programmer. 3,153,520, 10–20–64, Cl. 244—14.
Morris, Herbert E., to Monsanto Research Corp. Bis(alkylcyclohexyl) alkanes and use as high energy fuels. 3,128,-596, 4–14–64, Cl. 60—35.4.
Morris, Jack, to American Machine & Foundry Co. Welding of tubing. 3,133,183, 5–12–64, Cl. 219—59.
Morris, Jack M., to American Machine & Foundry Co. Welding tubular members of finite length. 3,127,500, 3–31–64, Cl. 219—59.

Morris, John M., to Chainbelt Inc. Vibrating fluidized systems. 3,161,483, 12–15–64, Cl. 34—57.
Morris, John M., and R. W. Evans, to Chain Belt Co. Vibratory feeder controls. 3,128,911, 4–14–64, Cl. 222—52.
Morris, John N., to Simmonds Precision Products, Inc. Fuel-injection pumps for internal combustion engines. 3,124,-116, 3–10–64, Cl. 123—139.
Morris, John N., and R. M. Williams. Door checking appliance. 3,118,167, 1–21–64, Cl. 16—82.
Morris, John N., and R. M. Williams. Door checking appliance. 3,160,911, 12–15–64, Cl. 16—52.
Morris, John R., and L. E. Rainville, Jr., to Hughes Aircraft Co. Pen speed anticipating circuit. 3,148,451, 9–15–64, Cl. 33—18.
Morris, Lawrence R., to United States of America, Navy. Swingable electrical contactor for guided missiles. 3,129,-046, 4–14–64, Cl. 339—35.
Morris, Leo R., to The Dow Chemical Co. Separation of chelate forming heavy metals from their aqueous solutions. 3,118,831, 1–21–64, Cl. 210—38.
Morris, Leo R., to The Dow Chemical Co. Phenylvinylene cyclic carbonates. 3,125,582, 3–17–64, Cl. 260—340.2.
Morris, Maron L., and J. A. Sobel, III, to Curtiss-Wright Corp. Exhaust noise suppressor for reaction engines. 3,120,877, 2–11–64, Cl. 181—51.
Morris, Melvin K., to Ormet Corp. Ingot. 3,154,391, 10–27–64, Cl. 29—184.
Morris Motors Ltd.: *See*—
Hodgkins, Cyril C. G. 3,139,274.
Morris, Noel J. Automatic control for evaporative cooler. 3,157,716, 11–17–64, Cl. 261—27.
Morris, Philip, Inc.: *See*—
Crown, James A. 3,128,551.
Grossman, James D., and Bayley. 3,139,888.
Kruger, James B., and Bordeau. 3,126,126.
Lloyd, Wallace G., Harris, and Updike. 3,127,899.
Motley, Stanley T. 3,126,999.
Schaaf, Edward M., Jr. 3,128,680.
Stanley, John, and Clarke. 3,139,435.
Stone, Louis A. 3,151,738.
Tait, Wilfred E., and Stellpflug. 3,131,806.
Wiley, Fred E., and Goldsmith. 3,143,239.
Morris Plan Co. of Cedar Rapids, The: *See*—
Ball, James A. 3,128,578.
Morris, Rexford M., to Therm-O-Disc, Inc. Snap action thermostatic control. 3,152,234, 10–6–64, Cl. 200—122.
Morris, Richard E., to Bethlehem Steel Co. Closure for a pressure vessel. 3,144,162, 8–11–64, Cl. 220—46.
Morris, Robert A., R. F. Salat, and E. Kujawski, to Vactronic Lab. Equipment, Inc. Precision metering valve. 3,139,262, 6–30–64, Cl. 251—205.
Morris, Robert B.: *See*—
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Hagmann, Foster M., Graham, and Morris. 3,122,253.
Hagmann, Foster M., Graham, and Morris. 3,122,254.
Hagmann, Foster M., Graham, and Morris. 3,122,255.
Hagmann, Foster M., Graham, and Morris. 3,122,262.
Morris, Robert C.: *See*—
Cosgrove, Albert S., and Morris. 3,123,045.
Morris, Robert W. Production of thin film metallic patterns. 3,133,874, 5–19–64, Cl. 204—298.
Morris, Ross E., to United States of America, Navy. Vibration damping treatments. 3,143,457, 8–4–64, Cl. 161—161.
Morris, William. Material holder and dispenser. 3,163,188, 12–29–64, Cl. 141—369.
Morrison, Charles G.: *See*—
Irland, Edwin A., and Morrison. 3,142,039.
Morrison, Charles G., and D. T. Seward, to Bell Telephone Laboratories, Inc. Multifrequency signal receiver. 3,143,-602, 8–4–64, Cl. 179—84.
Morrison Co., The: *See*—
Morrison, George F., and Frentzel. 3,152,608.
Morrison, David: *See*—
Robinson, Ralph C., Patrick, and Morrison. 3,136,985.
Morrison, Donald C.: *See*—
Hyman, Julius, Morrison, and Lee. 3,132,184.
Morrison, Edwin A.: *See*—
Schulze, Robert E., and Morrison. 3,153,347.
Morrison, George F., and H. C. Frentzel, to The Morrison Co. Check valve. 3,152,608, 10–13–64, Cl. 137—525.3.
Morrison, Grace F.: *See*—
Morrison, Joseph I. 3,136,086.
Morrison, Harold M., to General Motors Corp. Obstacle detection system. 3,159,826, 12–1–64, Cl. 340—258.
Morrison, Henry C. and W. H. Adjustable drafting board. 3,116,568, 1–7–64, Cl. 45—131.
Morrison, Horace F.: *See*—
Morrison, Jimmie H. and H. F. 3,145,025.
Morrison, Ian H., to United Kingdom Atomic Energy Authority. Fuel elements for use in nuclear reactors. 3,131,129, 4–28–64, Cl. 176—68.
Morrison, Ian H., to United Kingdom Atomic Energy Authority. Fuel elements for nuclear reactors. 3,145,152, 8–18–64, Cl. 176—77.
Morrison, James L. D. Coffee percolator. 3,129,318, 4–14–64, Cl. 219—43.
Morrison, Jimmie H. and H. F. Bowling ball speed measuring and indicating device. 3,145,025, 8–18–64, Cl. 273—54.
Morrison, John C. Tape end holding means. 3,145,477, 8–25–64, Cl. 33—137.
Morrison, John M., to Centriflo Pty. Ltd. Air screen creating apparatus. 3,145,641, 8–25–64, Cl. 98—36.
Morrison, John O.: *See*—
Clark, James A., and Morrison. 3,126,912.
Morrison, John R., to Herbster-Schmieler, Inc. Household heating furnace with combustion products recirculation. 3,152,633, 10–13–64, Cl. 158—1.
Morrison, Joseph I., deceased, by G. F. Morrison and J. O. Levinson, coexecutors. Line releasing device. 3,136,086, 6–9–64, Cl. 43—17
Morrison, Patricia A.: *See*—
Hewitt, John C., Jr. 3,147,354.
Thayer, George L., Jr., and Hewitt. 3,145,327.
Morrison, Robert F., Jr.: *See*—
Leet, William A., Morrison, and Moulton. 3,143,716.
Morrison, Robert W., to Westinghouse Electric Corp. Transducer having relatively angular movable bifilar punted-circuit-type coils. 3,148,347, 9–8–64, Cl. 336—123.
Morrison, Stanley R.: *See*—
Billette, Richard J., and Morrison. 3,157,937.
Morrison, Stanton R. Method of irrigation. 3,134,233, 5–26–64, Cl. 61—12.
Morrison, Willard L., to Liquefreeze Co., Inc. Method of chilling foodstuffs and the like. 3,138,935, 6–30–64, Cl. 62—64.
Morrison, Willard L. Insulated shipper container. 3,160,-307, 12–8–64, Cl. 220—9.
Morrison, William H.: *See*—
Morrison, Henry C. and W. H. 3,116,568.
Morrison, William S.: *See*—
Hilder, Peter F., and Morrison. 3,156,303.
Morrongiello, Joseph F., to Bell Telephone Laboratories, Inc. Emergency transfer circuit. 3,136,984, 6–9–64, Cl. 340—256.
Morrongiello, Joseph F., to Bell Telephone Laboratories, Inc. Alarm system with transferable indication. 3,151,320, 9–29–64, Cl. 340—213.1.
Morrow, Duane F.: *See*—
Moersch, George W., and Morrow. 3,150,184.
Morrow, Edward L., to Olin Mathieson Chemical Corp. Trigger with adjustable screw and stud therein. 3,142,926, 8–4–64, Cl. 42—69.
Morrow, Edward L., to Olin Mathieson Chemical Corp. Trigger mechanism. 3,145,496, 8–25–64, Cl. 42—69.
Morrow, Franklin C.: *See*—
Stinnett, George J., Jr., and Morrow. 3,157,097.
Morrow, Frederick C. Closure for container. 3,138,315, 6–23–64, Cl. 229—7.
Morrow, Harry C., to United States Steel Corp. Self-centering roll. 3,120,916, 2–11–64, Cl. 226—192.
Morrow, James A.: *See*—
Brownlow, James M., and Morrow. 3,150,095.
Morrow, Morris R., and A. D. Suttle, Jr., to Esso Research and Engineering Co. Method of conducting exothermic gas phase chemical reactions. 3,117,068, 1–7–64, Cl. 204—154.
Morrow, Richard A.: *See*—
Biagi, Fernando, Morrow, and Masonson. 3,124,652.
Morrow, Thurlow M., to George Almgren. Apparatus for producing identification cards. 3,158,523, 11–24–64, Cl. 156—522.
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Schmitz, Peter, Morschel, and Wedemeyer. 3,128,267.
Morse, Albert R., to Injection Molders Supply Co. Floating screw plasticizing cylinder. 3,149,377, 9–22–64, Cl. 18—30.
Morse, Arthur O.: *See*—
Rabinow, Jacob, and Morse. 3,138,669.
Morse, David C.: *See*—
Fortescue, Peter, Zumwalt, and Morse. 3,141,829.
Fortescue, Peter, Zumwalt, and Morse. 3,146,173.
Morse, Earl P. Marine outboard transmission and drive unit for inboard power plants. 3,146,755, 9–1–64, Cl. 115—35.
Morse, Harold H., and R. A. Foos, to National Distillers and Chemical Corp. Process for purifying hafnium. 3,146,092, 8–25–64, Cl. 75—84.
Morse, Hugh B., to Avery Industries, Inc. Drape frame assembly. 3,130,451, 4–28–64, Cl. 18—19.
Morse Instrument Co., The: *See*—
Morse, John F., Waner, Payerle, and Olsen. 3,127,785.
Waner, Donald W. 3,160,027.
Morse, John E.: *See*—
Morse, Paul M. 3,153,327.
Morse, John F. Steering connection for outboard motors. 3,143,994, 8–11–64, Cl. 115—18.
Morse, John F., D. W. Waner, F. S. Payerle, and R. F. Olsen, to The Morse Instrument Co. Single lever engine and idle control. 3,127,785, 4–7–64, Cl. 74—472.
Morse, Leighton L., to United States of America, Navy. Target range and material analyzer system. 3,122,720, 2–25–64, Cl. 340—3.
Morse, Meroe M., to Polaroid Corp. Photographic product and process. 3,142,567, 7–28–64, Cl. 96—66.
Morse, Milton. Silicon rubber light filter for incandescent lamps. 3,116,885, 1–7–64, Cl. 240—92.
Morse, Milton. Grounded electrical plug construction. 3,144,-287, 8–11–64, Cl. 339—14.
Morse, Milton. Metallic reinforced switch boot. 3,144,539, 8–11–64, Cl. 200—168.
Morse, Paul M., 33⅓ to J. E. Morse. Rectifying fluid torque converter for oscillating engines. 3,153,327, 10–20–64, Cl. 60—54.

Morse Signal Devices, Inc.: *See*—
Ward, Leslie A. 3,149,321.
Morss, Stanley O.: *See*—
Cavrich, George. 3,145,989.
Mortley, Wilfrid S., to The Marconi Co. Ltd. Linear frequency sweep of resonant circuit by exponentially varying reverse bias on semiconductor diode. 3,117,293, 1–7–64, Cl. 334—15.
Mortley, Wilfrid S., to The Marconi Co. Ltd. Radar systems. 3,117,313, 1–7–64, Cl. 343—5.
Mortley, Wilfrid S., to The Marconi Co. Ltd. Pulsed radar systems. 3,121,870, 2–18–64, Cl. 343—11.
Mortley, Wilfrid S., to The Marconi Co. Ltd. Target cancelling radar systems. 3,129,423, 4–14–64, Cl. 343—7.7.
Mortley, Wilfrid S., S. F. Clarke, and S. N. Radcliffe, to The Marconi Co. Ltd. Pulse sampling circuit employing diode pair connected to tunnel circuit. 3,153,732, 10–20–64, Cl. 307—88.5.
Mortensen, Lars S. Combination truck. 3,129,958, 4–21–64, Cl. 280—418.
Mortensen, Louis A. Drill bit. 3,117,637, 1–14–64, Cl. 175—394.
Mortenson, Harold A. Hobby horse. 3,122,377, 2–25–64, Cl. 280—1.13.
Mortenson, Lee N., and R. K. Pearson, to Wyle Laboratories. Fluid sampling device. 3,149,493, 9–22–64, Cl. 73—422.
Mortimer, Frank R.: *See*—
Dewar, Douglas, Mortimer, and Farr. 3,129,903.
Mortimer, George A., to Monsanto Chemical Co. Polymerization of ethylene in the presence of a free radical initiator, a chemical modifier, and methane as a physical modifier. 3,129,212, 4–14–64, Cl. 260—94.9.
Mortimer, George A., to Monsanto Chemical Co. Polymerization of ethylene utilizing a catalyst consisting of a polyhalo methyl compound. 3,131,173, 4–28–64, Cl. 260—94.9.
Mortland, Sheldon L., to AMF Overseas Corp. Apparatus for admixing strip tobaccos. 3,125,231, 3–17–64, Cl. 214—17.
Morton, Edmund R.: *See*—
Legg, Victor E., and Morton. 3,127,559.
Morton, Evans T., and C. A. Tondreau, to H. H. Uihlein Corp. Ice cube maker and storage apparatus. 3,144,078, 8–11–64, Cl. 165—30.
Morton, Glen R. Vacuum system for die casting. 3,121,926, 2–25–64, Cl. 22—68.
Morton, Glenn R. Steam iron base. 3,134,182, 5–26–64, Cl. 38—77.
Morton, Glenn R. Molten metal feeding tube for metal casting machines. 3,137,903, 6–23–64, Cl. 22—68.
Morton, George A., to United States of America, Army. Photoelectric cell. 3,130,342, 4–21–64, Cl. 313—103.
Morton, Henry J. Photograph cropping and enlargement guide. 3,124,997, 3–17–64, Cl. 88—24.
Morton, John R., to Michigan Chemical Corp. Method for the sterilization of water. 3,152,073, 10–6–64, Cl. 210—62.
Morton, Lester C., to National Distillers and Chemical Corp. Sealing means. 3,147,763, 9–8–64, Cl. 137—234.5.
Morton, Robert D., and E. G. Grohoski, to The Hartford Special Machinery Co. Thread rolling machine. 3,117,473, 1–14–64, Cl. 80—8.
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Fiedelman, Howard W., and Lintvedt. 3,155,458.
Grady, James M. 3,157,342.
Heath, Donald M. 3,123,445.
Katsaros, Constantine, and Kenaga. 3,154,467.
Magnuson, Roy M. Re. 25,511.
Magnuson, Roy M. Re. 25,535.
Venerable, James T., Miyashiro, and Weyna. 3,149,141.
Morton, William A., to Loftus Engineering Corp. Cover for soaking pits. 3,123,029, 3–3–64, Cl. 110—173.
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Morwald, Josef, to Kienzle Apparate G.m.b.H. Monostable blocking oscillator. 3,131,315, 4–28–64, Cl. 307—88.5.
Morwald, Josef, to Kienzle Apparate G.m.b.H. Matrix type switch arrangement. 3,140,403, 7–7–64, Cl. 307—88.
Morway, Arnold J., to Esso Research and Engineering Co. Oil compositions containing mixed metal salts. 3,143,505, 8–4–64, Cl. 252—32.5.
Morway, Arnold J., to Esso Research and Engineering Co. Mixed salt lubricants containing a controlled amount of water. 3,152,079, 10–6–64, Cl. 252—39.
Morway, Arnold J., and J. C. Munday, to Esso Research and Engineering Co. Oil compositions containing metal salt of phenol and low molecular weight acid. 3,130,160, 4–21–64, Cl. 252—33.6.
Morway, Arnold J., and J. H. Bartlett, to Esso Research and Engineering Co. Greases thickened with salts of copolymers of unsaturated dicarboxylic acid esters and vinyl acetate. 3,142,643, 7–28–64, Cl. 252—41.
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Mory, Rudolf, H. Loeffel, and K. Ronco, to Ciba Ltd. Azodyestuffs. 3,124,568, 3–10–64, Cl. 260—203.
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Mosbacher, Bruce H., to Roper Hydraulics, Inc. Method of pumping and separating liquid and gaseous fluids. 3,137,234, 6–16–64, Cl. 103—2.
Mosby, Frederick A.: *See*—
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Mosca, Anthony P. Pen flashlight telephone attachment and the like. 3,118,614, 1–21–64, Cl. 240—2.17.
Moscarini, Flaviano, to Editoriale Domus S.p.A. Device for taking and recording the performance data of a running motor vehicle. 3,160,463, 12–8–64, Cl. 346—33.
Moschetti, Donald J., C. C. Roecks, and L. V. York, Jr., to General Electric Co. Laundry machine for washing and centrifuging with slip clutch. 3,116,626, 1–7–64, Cl. 68—23.
Moschle, Anton: *See*—
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Sapilevsky, Piotr F. 3,155,557.
Moseley, Jack R.: *See*—
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Mosemiller, Robert L., to Miller Printing Machinery Co. Printing press. 3,157,118, 11–17–64, Cl. 101—247.
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Moser, Glenn P., to R. J. Reynolds Tobacco Co. Process for removing nicotine from tobacco. 3,151,118, 9–29–64, Cl. 260—291.
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Moses, David. Work gripping chuck. 3,145,997, 8–25–64, Cl. 279—2.
Moses, Harry, to United States of America, Atomic Energy Commission. Atmospheric eddy disturbance detector. 3,146,622, 9–1–64, Cl. 73—355.
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Mosher, James K., to Schulz Tool and Mfg. Co. Apparatus for loading and unloading a fuel tank. 3,144,056, 8–11–64, Cl. 141—192.
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Mosher, Robert A., and W. G. Stanley, to Standard Oil Co. Ammonium nitrate propellant composition providing exhaust gases of reduced temperature. 3,161,550, 12–15–64, Cl. 149—19.
Mosher, Robert E., C. E. Taylor, and J. W. Townsend, to North American Aviation, Inc. Vacuum tube retainer and heat shield. 3,147,798, 9–8–64, Cl. 165—80.
Mosher, Wesson G., and A. J. Kazura, to General Electric Co. Magnetic pull up machine for positioning and lineal measurement of magnetic strip material. 3,137,190, 6–16–64, Cl. 83—210.
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Shano, Charles L. 3,159,781.
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Mott, John H. Blank staple stitching machine for box blanks or the like. 3,120,664, 2–11–64, Cl. 1—106.
Mott, John H. Box stitching machine. 3,153,790, 10–27–64, Cl. 1—106.
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Moulton, Stephen W., to Philco Corp. Saturation control apparatus for color television. 3,134,851, 5–26–64, Cl. 178—5.4.
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Bood, Louris. 3,136,259.
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Moy, Tsoy K., to United States of America, Navy. Re-entry body support. 3,160,061, 12–8–64, Cl. 89—1.7.
Moy, Tsoy K., and G. F. Mechlin, to United States of America, Navy. Flexible foam support. 3,160,062, 12–8–64, Cl. 89—1.7.
Moyano, Ernesto A., to Thermo Electric Co., Inc. Chart drive mechanism. 3,125,309, 3–17–64, Cl. 242—55.
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Moyer, Robert F., to Harsco Corp. Die bushing with removable liner. 3,149,887, 9–22–64, Cl. 308—3.5.
Moyer, Wayne B., to General Electric Co. Turbine shroud structure. 3,141,651, 7–21–64, Cl. 253—39.
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Moyes, Stuart H., and W. A. Taylor, to General American Transportation Corp. Railway tank cars. 3,139,842, 7–7–64, Cl. 105—360.
Moyle, Clarence L., and D. M. Chern, to The Dow Chemical Co. Anisic acid derivatives of benzimidazoles. 3,147,274, 9–1–64, Cl. 260—309.2.
Moyle, Clarence L., and D. M. Chern, to The Dow Chemical Co. Benzimidazole compounds. 3,152,142, 10–6–64, Cl. 260—309.2.
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Moyroud, Louis M. Type composing apparatus. 3,162,105, 12–22–64, Cl. 95—4.5.
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Mros, Albert A. Electric motor braking control system. 3,147,420, 9–1–64, Cl. 318—203.
Mrowinski, Jerome, to Societe des Acieries de Pompey. Device for handling pieces having a square or like cross-section. 3,117,680, 1–14–64, Cl. 214—1.
Mroz, Edmund A. J. Evaporating apparatus and process. 3,122,487, 2–25–64, Cl. 202—45.
Mrozek, Elmer V. Dipstick assemblies for material handling equipment. 3,129,831, 4–21–64, Cl. 214—137.
Mrozinski, Stanley J.: *See*—
Valchar, Clement E., Noca, and Mrozinski. 3,136,618.
Mrstik, Adolph V., J. H. Kirk, and H. D. Young, to Sinclair Research Inc., Method of operating a compression-ignition engine. 3,150,645, 9–29–64, Cl. 123—1.
Mucci, Ralph L.: *See*—
Weston, Lawrence G., Lense, and Mucci. 3,123,104.
Muccigrosso, Angelo T.: *See*—
Krystyniak, Casimer W., Muccigrosso, and Ploetz. 3,146,-281.
Muccino, Louis F.: *See*—
Sullivan, Lawrence R., Jr. 3,147,012.
Ward, Wallace W. 3,147,324.
Muccino, Louis F. Golf balls. 3,130,974, 4–28–64, Cl. 273—216.
Muccino, Louis F. Golf balls. 3,134,598, 5–26–64, Cl. 273—227.
Mucha, George M., and G. H. Ledl, to The Ohio Crankshaft Co. Inductor for heating a channel member. 3,121,780, 2–18–64, Cl. 219—10.79.
Muchnick, Paul, and E. Levy, Jr., to Raytheon Co. Current limiter utilizing a small ohmic resistance in series with the load. 3,122,694, 2–25–64, Cl. 321—16.
Mucklenbeck, Max, and E. Muller, to Schmidt & Clemens. Process and apparatus for machining arcuate bodies of round cross-section. 3,146,646, 9–1–64, Cl. 82—14.
Muckler, Frank, to Seco Co., Inc. Tray construction. 3,136,-443, 6–9–64, Cl. 220—19.
Mucon Engineering Co. Ltd.: *See*—
Douglass, Walter. 3,123,262.
Muehlebach, William D., and A. J. Paradise, Jr., to Chemical Sealing Corp. Package for coils. 3,144,936, 8–18–64, Cl. 206—65.
Muehlenbeck, William A.: *See*—
Lennox, Bruce J. 3,161,998.
Muehlfelt, Edward C.: *See*—
Russell, James D., and Muehlfelt. 3,157,576.
Russell, James D., Muehlfelt, Grosse, and Ott. 3,157,577.
Muehlhauser, Donn W., to The Pipe Machinery Co. Floating tool for removing burrs from machined surfaces. 3,129,620, 4–21–64, Cl. 82—20.
Muehlhauser, Donn W., to The Pipe Machinery Co. Positioning and holding apparatus. 3,153,250, 10–20–64, Cl. 10—89.
Muehlman, Ray L., to Union Carbide Corp. Mining machine launching and conveyor storage system. 3,135,502, 6–2–64, Cl. 262—26.
Muehlstein, H., & Co., Inc.: *See*—
Farrell, Walter O., and Verde. 3,129,197.
Mueller, Adam, to Dr. A. Mueller Chemisches Laboratorium. Single-step process of producing hop extracts. 3,143,425, 8–4–64, Cl. 99—50.5.
Mueller, Albert J., and P. R. Kline, said Mueller assor. to said Kline. Toipcal therapeutic composition. 3,137,622, 6–16–64, Cl. 167—58.
Mueller, Alvin W., and L. R. Perry, to Mueller-Perry Co. Inc. Ball bat with reinforced handle. 3,129,003, 4–14–64, Cl. 273—72.
Mueller, Andrew A., to Wells Electronics, Inc. Precision electric welding head. 3,127,501, 3–31–64, Cl. 219—86.
Mueller, Arthur C.: *See*—
Macomber, Clark C., and Mueller. 3,121,379.
Mueller, Arthur C., to Bell & Howell Co. Motion picture camera. 3,145,613, 8–25–64, Cl. 88—16.
Mueller Brass Co.: *See*—
Gray, Robert A., Jr. 3,144,263.
Mueller, Carl H., and R. F. Schneller, to The McNeil Machine & Engineering Co. Wheel balancer. 3,159,035, 12–1–64, Cl. 73—483.
Mueller, Charles E., to Textron, Inc. Sealed bearing. 3,142,-520, 7–28–64, Cl. 308—187.2.
Mueller Co.: *See*—
Mueller, Frank H., Leopold, and Luckenbill. 3,159,167.
Mueller, Frank H., and Smith. 3,130,483.
Smith, John J. 3,130,951.
Mueller, Curt, and U. Lerch, to Sandoz Ltd. Process for the dyeing, padding and printing of polyester fibers. 3,122,410, 2–25–64, Cl. 8—41.
Mueller, Erich O., to Westinghouse Electric Corp. Spline coupling. 3,117,430, 1–14–64, Cl. 64—9.
Mueller, Erich O., to Westinghouse Electric Corp. Electric traction truck of the parallel drive type. 3,152,557, 10–13–64, Cl. 105—108.
Mueller, Erich O., to Westinghouse Electric Corp. Traction power unit suspension. 3,152,558, 10–13–64, Cl. 105—133.
Mueller, Floyd F.: *See*—
Amthor, Franklin R., Jr., and Mueller. 3,138,946.
Grow, Harry N., Hoenle, Kanitz, Cisler, and Mueller. 3,140,559.
Mueller, Frank H., and J. J. Smith, to Mueller Co. Service T and method and apparatus for closing same when in service. 3,130,483, 4–28–64, Cl. 29—157.
Mueller, Frank H., W. R. Leopold, Jr., and L. F. Luckenbill, to Mueller Co. Service T installation including excessive-flow safety valve. 3,159,167, 12–1–64, Cl. 137—71.
Mueller, Fritz W. H.: *See*—
Evans, Helene D., Mueller, and Levinos. 3,118,767.
Evans, Helene D., Mueller, and Levinos. 3,147,119.
Mueller, George: *See*—
Bellamy, Paul D., and Mueller. 3,124,758.
Mueller, Helmut, to Firma Rheinmetall G.m.b.H. Spin stabilized hollow charge projectile. 3,157,124, 11–17–64, Cl. 102—56.
Mueller, Helmut C., to Bigelow-Sanford, Inc. Pile floor covering. 3,122,175, 2–25–64, Cl. 139—402.
Mueller, Herbert: *See*—
Wittenberg, Dietmar, and Mueller. 3,149,173.
Mueller, Herbert, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of oligomers of 1,3-dienes. 3,149,-174, 9–15–64, Cl. 260—666.
Mueller, Herbert, and H. Friederich, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of benzene and its trisubstituted and hexasubstituted derivatives. 3,126,-424, 3–24–64, Cl. 260—673.
Mueller, Jacob: *See*—
Reid, Gilbert R., and Mueller. 3,151,211.
Reid, Gilbert R., Mueller, and Hannon. 3,145,260.
Mueller, Johannes, to Ciba Corp. Raunescine group alkaloids and their obtention. 3,131,192, 4–28–64, Cl. 260—287.
Mueller, John B., and T. Thorsen, to W. A. Laidlaw Wire Co. Garment hanger. 3,162,342, 12–22–64, Cl. 223—88.
Mueller, John L.: *See*—
Wormser, Hans H., and Mueller. 3,138,777.
Mueller, Klaus P., to Robertshaw Controls Co. Pneumatic controller. 3,145,722, 8–25–64, Cl. 137—85.
Mueller, Martin, to S. C. Graham. Applicator machine for applying granular toppings to ice cream or the like. 3,136,-660, 6–9–64, Cl. 118—24.
Mueller, Max B., J. G. Iacoviello, and R. Rosenthal, to Allied Chemical Corp. Process for epoxidation of ethylenically unsaturated compounds. 3,155,638, 11–3–64, Cl. 260—78.4.
Mueller, Michael W.: *See*—
Robinson, Robert E., and Mueller. 3,119,795.
Mueller, Otto. Variable delivery and variable pressure vane type pump. 3,120,814, 2–11–64, Cl. 103—120.
Mueller, Paul: *See*—
Locher, Fritz, and Mueller. 3,118,772.
Mueller-Perry Co. Inc.: *See*—
Mueller, Alvin W., and Perry. 3,129,003.
Mueller, Peter A., to Mueller Seal Co. Rotary mechanical seal. 3,131,943, 5–5–64, Cl. 277—90.
Mueller, Peter A. Abutment-type seal for rotary elements. 3,160,417, 12–8–64, Cl. 277—40.
Mueller, Richard H., to Controls Co. of America. Vaporizing pot type oil burner. 3,147,796, 9–8–64, Cl. 158—91.
Mueller, Richard J., C. Weber, and P. Katz, to Automatic Canteen Co. of America. General merchandising machine. 3,147,838, 9–8–64, Cl. 194—10.
Mueller, Robert C., to Bemis Bro. Bag Co. Stapling apparatus. 3,119,114, 1–28–64, Cl. 1—121.
Mueller, Robert D.: *See*—
Killackey, James J., Mueller, and Tang. 3,147,823.
Mueller, Rolf K., and W. W. Lindemann, to Litton Systems Inc. Grain boundary television camera tube. 3,121,186, 2–11–64, Cl. 315—10.
Mueller Seal Co.: *See*—
Mueller, Peter A. 3,131,943.
Mueller, Theodore G., to Consolidated Packaging Machinery Corp. Scale apparatus. 3,140,750, 7–14–64, Cl. 177—107.
Mueller, Walter, to Schiff & Stern Gesellschaft m.b.H. Boiler for central heating systems and for preparing hot water. 3,120,838, 2–11–64, Cl. 122—149.
Mueller, Wilfred, to Eckhoff and Slick. Motorcycle fairing. 3,154,342, 10–27–64, Cl. 296—78.1.
Mueller, Willy: *See*—
Kern, Walter, Mueller, and Siegrist. 3,157,667.
Mueller, Willy, and A. E. Siegrist, to Ciba Ltd. Azo dyestuffs. 3,127,390, 3–31–64, Cl. 260—152.
Muellner, Donald R., and J. R. Muntjanoff, to Caterpillar Tractor Co. Adjustable valve control mechanism for tractor mounted loaders. 3,155,252, 11–3–64, Cl. 214—140.
Muench, John L., to General Machine Co. of New Jersey, Inc. Loading and unloading system for blenders and the like. 3,137,327, 6–16–64, Cl. 141—172.
Muench, Nils L.: *See*—
Graham, John W., and Muench. 3,127,933.
Muenchinger, Herman G. Tools for punching recessed head fasteners. 3,120,012, 2–4–64, Cl. 10—7.
Muenchinger, Herman G., to Phillips Screw Co. Locking screw with displaced thread portion. 3,124,188, 3–10–64, Cl. 151—22.
Muenz, Manfred, to Loral Electronics Corp. Instrument panel lighting. 3,120,350, 2–4–64, Cl. 240—8.16.
Muenz, Maximilian. Cover for textile machine. 3,154,817, 11–3–64, Cl. 19—98.
Muetgeert, Johannes, A. Schors, and P. Hiemstra, to Cooperatieve Verkoop-en Productievereniging van Aardappelmeel en Derivaten "Avebe" G.A. Amylose derivatives. 3,122,-534, 2–25–64, Cl. 260—209.

Muetterties, Earl L., to E. I. du Pont de Nemours and Co. Diarylphosphino-halo-decaborane compounds and production thereof. 3,118,932, 1–21–64, Cl. 260—500.

Muetterties, Earl L., to E. I. du Pont de Nemours and Co. Organic sulfide derivatives of decaborane. 3,154,561, 10–27–64, Cl. 260—327.

Muffly, Glenn. Refrigeration system having serially arranged evaporators. 3,136,138, 6–9–64, Cl. 62—404.

Mufich, Doris. Disposable protective head covering. 3,145,393, 8–25–64, Cl. 2—202.

Mugg, Jarrell B., to Crown-Zellerbach Corp. Process of treating metal sulfates. 3,148,950, 9–15–64, Cl. 23—224.

Muggleton, Gerald D., to Combined Locks Paper Co. Method of coating paper with high solids high viscosity coating in the wet end of the paper making machine. 3,146,159, 8–25–64, Cl. 162—184.

Muggleton, Peter W., J. A. R. Dudley, and V. C. Gonzalez Bellido (formerly Thomas), to Glaxo Group Ltd. Vaccines. 3,135,663, 6–2–64, Cl. 167—79.

Muhl, Andrew H.: *See*—
Foley, Clyde V., and Muhl. 3,144,546.

Muhl, Robert C.: *See*—
Marker, Kenneth D., and Muhl. 3,126,673.

Mühlbach, Anton, to United Shoe Machinery Corp. Clicker die press with means to prevent platen creep. 3,153,965, 10–27–64, Cl. 83—525.

Muhlbauer, Herbert G.: *See*—
Burns, Simon P., and Muhlbauer. 3,136,767.
Lichtenwalter, Myrl, and Muhlbauer. 3,128,275.

Muhlbauer, Herbert G., and T. H. Cour, to Jefferson Chemical Co., Inc. Purification of amines. 3,120,525, 2–4–64, Cl. 260—268.

Mühlberg, Erhard, to Maschinenfabrik Augsburg-Nurnberg A.G. Recycled exhaust gas regulation. 3,135,253, 6–2–64, Cl. 123—119.

Mühlbeyer, Josef. Two motor drive having a centrifugally controlled clutch. 3,142,202, 7–28–64, Cl. 74—665.

Mühlemann, Hans R.: *See*—
Schmid, Hans, and Mühlemann. 3,124,512.

Muhlogger, Leopold: *See*—
Durst, Julius, and Muhlogger. 3,161,107.

Muhr, Alfred: *See*—
Schmitz Adolf, and Muhr. 3,125,486.

Muijderman, Everhardus A.: *See*—
Haringx, Johannes A., Muijderman, and Rinia. 3,154,353.

Muir, Hubert M., to Nuclear Corp. of America. Process for producing rare earth selenides and tellurides. 3,129,056, 4–14–64, Cl. 23—50.

Muir, John R., to McCulloch Corp. Chain saw with sharpening means. 3,138,973, 6–30–64, Cl. 76—37.

Muirhead & Co., Ltd.: *See*—
Bright, Frederick J. 3,154,707.
Richardson, Peter E., and Dunworth. 3,132,266.

Mukaiyama, Teruaki, M. Tokizawa, and H. Nohira, to T. Hoshino, T. Mukaiyama, and K. Ashida. Method of preparing isocyanates. 3,118,925, 1–21–64, Cl. 260—453.

Mukherjee, Ram K. Automatic gear mechanisms. 3,154,962, 11–3–64, Cl. 74—337.

Mukherji, Jyoti P., to Walchandnagar Industries Ltd. Adjustable fluid flow control device. 3,122,157, 2–25–64, Cl. 137—262.

Mukoyama, Shigeki: *See*—
Hirakawa, Tamiro, Asano, Mukoyama, and Asano. 3,135,672.

Mulcahy, George R., Jr. Load recovery parachute system. 3,137,465, 6–16–64, Cl. 244—142.

Mulcahy, Harry W., to W. H. Miner, Inc. Friction shock absorber. 3,132,748, 5–12–64, Cl. 213—32.

Mulch, Hans, to Ernest Leitz G.m.b.H. Slide projector with slide preselection means. 3,146,667, 9–1–64, Cl. 88—28.

Mulch, Hans, to Ernst Leitz Gesellschaft mit beschrankter Haftung. Slide projector. 3,159,933, 12–8–64, Cl. 40—79.

Mulch, Hans, and M. Riecke, to Ernst Leitz G.m.b.H. Slide projector with precise focusing. 3,120,779, 2–11–64, Cl. 88—24.

Mulchi, Royce L. Aid for stringed instruments. 3,153,970, 10–27–64, Cl. 84—485.

Mulconroy Co.: *See*—
Goodall, Richard B. 3,160,428.

Mulder, Allen C., to Miller Electric Mfg. Co. Arc welder with a thermal control. 3,160,783, 12–8–64, Cl. 315—117.

Mulder, Gerard W.: *See*—
Grazioso, Charles G., and Mulder. 3,156,043.

Mulder, Harco R. Windrowing attachment for straw chopper. 3,149,449, 9–22–64, Cl. 56—192.

Mulder, Harry, to The Firestone Tire & Rubber Co. Container support. 3,143,242, 8–4–64, Cl. 220—69.

Mulder, Harry, to The Firestone Tire & Rubber Co. Bung patch plate assembly. 3,143,244, 8–4–64, Cl. 220—71.

Mulder, Jacob: *See*—
Domburg, Jacobus, and Mulder. 3,159,752.

Muldoon, Edward M., to ETC Inc. Insulated electrical connectors. 3,123,663, 3–3–64, Cl. 174—84.

Muldoon, Joseph M. Cargo handling device. 3,151,752, 10–6–64, Cl. 214—130.

Muldoon, William J., to Hughes Aircraft Co. Pen positioning circuit. 3,127,678, 4–7–64, Cl. 33—1.

Muldoon, William J., to Hughes Aircraft Co. Interrupted line drawing system. 3,143,804, 8–11–64, Cl. 33—18.

Muldoon, William J., and R. W. Peterson, to Hughes Aircraft Co. Line terminating system. 3,126,635, 3–31–64, Cl. 33—18.

Mulford, Richard A. X-frame transmission line structure. 3,162,719, 12–22–64, Cl. 174—45.

Mulford, Stewart F.: *See*—
Ris, Kenneth B., and Mulford. 3,142,381.

Mulford, Stewart F., and D. G. Durst, to Baldwin-Lima-Hamilton Corp. Evaporator construction. 3,160,571, 12–8–64, Cl. 202—173.

Mulla, Frank J., to The Dow Chemical Co. Trigger proof splicing tape. 3,154,458, 10–27–64, Cl. 161—36.

Mullaney George J., to General Electric Co. Constant pressure combustion autoignition engine. 3,125,076, 3–17–64, Cl. 123—32.

Mullany, Thomas J. Paper holder for drafting board. 3,132,440, 5–12–64, Cl. 45—131.

Mullard Radio Valve Co. Ltd., The: *See*—
Gribble, Peter D., and Perry. 3,127,557.

Mullejans, Paul, and M. Albiez, to Hoffman Maschinen G.m.b.H. Garment finishing machine. 3,156,053, 11–10–64, Cl. 38—40.

Mullen, James T., to Dyment Co. Tire insert display signs. 3,141,252, 7–21–64, Cl. 40—125.

Mullen, James W., II., J. B. Fenn, and F. I. Tanczos, to Texaco Experiment Inc. Method of making carbon black. 3,122,418, 2–25–64, Cl. 23—209.4.

Mullen, Jerry R. Dispensers. 3,137,418, 6–16–64, Cl. 222—456.

Mullen, John H., to Westinghouse Electric Corp. Push-button control switch. 3,136,868, 6–9–64, Cl. 200—5.

Mullen, Lester L. Expandable house trailer. 3,137,041, 6–16–64, Cl. 20—2.

Mullen, Lewis O.: *See*—
Jacobs, Robert B., Mullen, Van Gundy, Richards, and Steward. 3,137,143.

Mullen, Roger H., Inc.: *See*—
Schauer, Alfred. 3,142,276.

Mullen, Theodore E., to Union Carbide Corp. Preparation of polyethylene powders. 3,154,530, 10–27–64, Cl. 260—94.9.

Mullenaax, Ernest R. Ski mounted bench. 3,125,982, 3–24–64, Cl. 115—70.

Müller, Adrian, to Machine Tool Works Oerlikon, Administration Co. Spinning or twining spindle brake arrangement. 3,116,591, 1–7–64, Cl. 57—88.

Müller, Alfred H., to Daimler-Benz Aktiengesellschaft. Seat construction for motor vehicles. 3,125,179, 3–17–64, Cl. 180—89.

Muller, Alois, to Opal Mfg. Co., Ltd. Coin operable release mechanism. 3,158,288, 11–24–64, Cl. 221—67.

Muller-Calgan, Helmut: *See*—
Fruhstorfer, Wolfgang, and Muller-Calgan. 3,147,275.
Fruhstorfer, Wolfgang, and Muller-Calgan. 3,161,653.

Muller, Donald J. Coin display holder. 3,145,833, 8–25–64, Cl. 206—.83.

Muller, Erhard: *See*—
Mucklenbeck, Max, and Muller. 3,146,646.

Müller, Erhard, to Xaver Fendt & Co., Maschiners- und Schlepperfabrik. Circular linking machine. 3,120,203, 2–4–64, Cl. 112—27.

Muller, Erich, to Boehringer Ingelheim G.m.b.H. Process of increasing bile secretion by 2,2-di(hydroxymethyl)-bicyclo-2(2,2,1)-heptene-5. 3,136,694, 6–9–64, Cl. 167—65.

Müller, Ernst: *See*—
Wuppermann, Theodor, and Müller. 3,126,770.

Müller, Ernst, and A. Hertl., to Hydraulik G.m.b.H. Stretching machine for stretching metal sheets and the like. 3,125,151, 3–17–64, Cl. 153—35.

Muller, Erwin: *See*—
Oertel, Harald, and Müller. 3,136,830.

Müller, Erwin, H. Holtschmidt, and K. Ellegast, to Farbenfabriken Bayer Aktiengesellschaft. Polyurethane prepolymers cured with butene or butyne diol. 3,129,200, 4–14–64, Cl. 260—75.

Müller, Erwin, O. Bayer, G. Braun, and H. Scheurlen, ½ to Farbenfabriken Bayer Aktiengesellschaft, and ½ to Mobay Chemical Co. Polyurethane plastics prepared from the reaction product of an aldehyde and an oxyalkylated aromatic amine. 3,134,755, 5–26–64, Cl. 260—72.5.

Muller, Erwin, W. Speicher, P. Coppee, and R. Merten, to Farbenfabriken Bayer Aktiengesellschaft. Method of coating leather. 3,147,138, 9–1–64, Cl. 117—142.

Müller, Erwin A., and W. Becker, to Farbenfabriken Bayer Aktiengesellschaft. Polyurethane plastics and preparation of same. 3,135,708, 6–2–64, Cl. 260—2.5.

Muller, Felix, to Kienzle Apparate G.m.b.H. Combined speed and idling recorder for automotive vehicles and the like. 3,132,916, 5–12–64, Cl. 346—62.

Muller, Frank A., to Martin-Marietta Corp. Missile flight control system. 3,154,015, 10–27–64, Cl. 102—50.

Muller, Franz: *See*—
Golucke, Karl, and Muller. 3,146,998.

Muller, Franz, H. Deussner, and K. Brachthauser, to Klockner-Humboldt-Deutz Aktiengesellschaft. Method and means for improving electric precipitation of dust from kiln waste gases. 3,162,431, 12–22–64, Cl. 263—32.

Muller, Georges: *See*—
Bertin, Daniel, Fritel, Muller, Mathieu, Joly, and Jolly. 3,123,597.
Goffinet, Bernard, Muller, Plotka, Jequier, and Velluz. 3,127,314.
Veliuz, Leon, Muller, Nomine, Penasse, and Pierdet. 3,148,192.

Muller, Georges, J. Martel, and R. Bardoneschi, to Roussel-Uclaf, S.A. Novel 11β, 18-oxido-18 ξ-methyl-pregnenes. 3,128,270, 4–7–64, Cl. 260—239.55.
Muller, Georges, and J. Martel, to Roussel-UCLAF, S.A. Novel A-nor-B-homo-steroids. 3,138,635, 6–23–64, Cl. 260—488.
Muller, Georges, and R. Bardoneschi, to Roussel-UCLAF, S.A. C-homo-Δ⁴-pregnene-17α,21-diol-3,20-dione, its esters, intermediates and process. 3,156,684, 11–10–64, Cl. 260—239.55.
Muller, Guillaume, to Prochirhin S. A. Product for refining effervescent, quiescent and semi-quiescent steel in the casting. 3,158,466, 11–24–64, Cl. 75—58.
Muller, Hans. Device for securing a toilet to a floor. 3,148,379, 9–15–64, Cl. 4—1.
Müller, Hans, and K. Koebel, to Cilag-Chemie Ltd. N-p-toluenesulfonyl-N'-β-methylsulfinylethyl urea. 3,140,314, 7–7–64, Cl. 260—553.
Muller, Jacques, to Rellumit Inter S.a.R.L. Vessel for clearing floating liquids and garbage from stretches of water or ships. 3,142,281, 7–28–64, Cl. 114—.5.
Muller, Jacques. Quick-acting biased valved coupling for fluid pipe. 3,143,137, 8–4–64, Cl. 137—552.
Muller, Jean C., to Jervis B. Webb Co. Drive unit construction for conveyors. 3,150,768, 9–29–64, Cl. 198—203.
Muller, Johann, to H. and F. W. Deckel. Machine tool. 3,117,492, 1–14–64, Cl. 90—11.
Müller, Johann, to Albert Handtmann Firma. Sausage manufacturing apparatus. 3,140,509, 7–14–64, Cl. 17—33.
Muller, Johannes: *See*—
Kloepfer, Harry, Müller, and Sperr. 3,145,458.
Muller, John G. Apparatus utilizing solar energy for demineralizing water. 3,138,546, 6–23–64, Cl. 202—205.
Muller, John T.: *See*—
Soderberg, Sten, and Muller. 3,137,474.
Muller, John T., to Leslie Co. Throttling valve. 3,125,121, 3–17–64, Cl. 137—614.11.
Müller, Josef: *See*—
Kaiser, Paul, and Müller. 3,124,074.
Von Przychowski, Siegfried D., Muller, Wimmer, Wirth, and Kaiser. 3,119,337.
Müller, Josef, to Daimler-Benz Aktiengesellschaft. Mounting of an auxiliary frame in vehicles. 3,119,628, 1–28–64, Cl. 280—106.5.
Müller, Josef, and W. Albrecht, to Daimler-Benz Aktiengesellschaft. Steering wheel with switching mechanism. 3,154,647, 10–27–64, Cl. 200—61.56.
Muller, Joseph M., to United States Steel Corp. Method for desalting and dewatering crude coal tar. 3,151,055, 9–29–64, Cl. 208—39.
Muller, Karl, to Maag Gear Wheel & Machine Co. Ltd. Automatic radial runout tester for gear wheels. 3,122,839, 3–3–64, Cl. 33—179.5.
Muller, Karl, to Maag Gear Wheel & Machine Co. Ltd. Gear checking instruments. 3,160,959, 12–15–64, Cl. 33—179.5.
Müller, Karl-Adolf: *See*—
Fries, Friedrich A., and Müller. 3,150,126.
Muller, Kurt: *See*—
Waleff, Jose, Jenny, and Muller. 3,120,920.
Muller, Kurt, to I-T-E Circuit Breaker Co. Cycle for a wide speed and load range. 3,120,339, 2–4–64, Cl. 230—69.
Muller, Kurt, and M. A. Tissi, to Inventa A.G. fur Forschung und Patentverwertung. Apparatus and process for stretching textile threads of synthetic linear polyamides. 3,154,807, 11–3–64, Cl. 18—1.
Müller, Ludwig. Pile structure. 3,137,140, 6–16–64, Cl. 61—53.5.
Müller, Ludwig. Sheet pile. 3,152,450, 10–13–64, Cl. 61—53.58.
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Olding, Thomas H. 3,118,297.
Murray, D. J., Mfg. Co.: *See*—
Miller, Clarence W., and Haller. 3,131,880.
Murray, Francis E., H. D. Zitko, R. H. Wright, and R. W. Klinck, to British Columbia Research Council. Gas-liquid contacting apparatus. 3,150,211, 9–22–64, Cl. 261—112.
Murray, Frederick R., and R. Janes, to Rolls-Royce Ltd. Combustion chamber for a gas turbine engine. 3,119,234, 1–28–64, Cl. 60—39.37.
Murray, Gilbert. Packaging machine. 3,128,583, 4–14–64, Cl. 53—119.
Murray, Guy E., V. A. Rayburn, and C. W. Rice, Jr., to Western Electric Co., Inc. Multiconductor terminal frame with wire harnessing means. 3,152,219, 10–6–64, Cl. 174—72.
Murray, Henry D., Jr., and E. E. Johnston, to Standard Parts and Equipment Corp. Glide slope indicator. 3,138,779, 6–23–64, Cl. 340—26.
Murray Iron Works Co.: *See*—
Griffel, Marc R. 3,163,395.
Murray, James E., F. H. Guth, J. D. Powell, and W. V. Peterson, to Thompson Ramo Wooldridge Inc. Precipitation sensing system. 3,141,330, 7–21–64, Cl. 73—170.
Murray, James G., F. F. Holub, and M. J. Smith, to General Electric Co. Compositions of matter and uses of said compositions in a projection system. 3,125,634, 3–17–64, Cl. 178—7.5.
Murray, James G., F. F. Holub, and M. J. Smith, to General Electric Co. Projection system. 3,125,635, 3–17–64, Cl. 178—7.5.
Murray, James J. Solid state reactive phase lagging device. 3,122,655, 2–25–64, Cl. 307—88.5.
Murray, James J. Automatic tensioner. 3,136,170, 6–9–64, Cl. 74—242.11.
Murray, James J., and J. G. Truxal. Grid controlled transistor device. 3,153,154, 10–13–64, Cl. 307—88.5.
Murray, John H.: *See*—
Oldberg, Sidney, Murray, and Sponhauer. 3,118,322.
Murray, John L.: *See*—
Beerbower, Alan, and Murray. 3,130,314.
Murray, John S. Valve amplifier push-pull output stage. 3,127,569, 3–31–64, Cl. 330—122.
Murray, John S. Transistor amplifier having direct current feedback bias control. 3,140,448, 7–7–64, Cl. 330—19.
Murray, Joseph J.: *See*—
Rauner, Frederick J., and Murray. 3,148,064.
Murray Mfg. Corp.: *See*—
Kobryner, Herman H. 3,131,984.
Kobryner, Herman H. 3,134,931.

Murray, Myles N., to Industrial Electronic Rubber Co. Capacitor with at least one electrode in a sealed container. 3,124,727, 3–10–64, Cl. 317—230.

Murray, Peter: *See*—
Lively, David T., Murray, Scott, and Williams. 3,141,782.

Murray, Peter J. A.: *See*—
Hildebrand, Robert P., Harold, Clarke, and Murray. 3,155,522.

Murray, Richard B.: *See*—
Love, Temple A., and Murray. 3,129,329.

Murray, Richard H., and W. L. Wilcox, to Arcos Corp. Jet piercer blow pipe and tooth lug therefor. 3,152,652, 10–13–64, Cl. 175—15.

Murray, Robert E.: *See*—
Bates, Howard J., Spry, and Murray. 3,142,169.

Murray, Robert R., to Arkay Corp. Photographic film or paper processing machine. 3,131,621, 5–5–64, Cl. 95—89.

Murray, Robert W., 25% to J. A. Fridland. Chuck for a valve grinder. 3,140,569, 7–14–64, Cl. 51—236.

Murray, Stephen F.: *See*—
Beehler, Richard F., and Murray. 3,131,236.

Murray, Sylvester F., and M. B. Peterson, to General Electric Co. Solid lubricant coatings and coating compositions. 3,158,495, 11–24–64, Cl. 117—46.

Murray, Thomas C., and J. B. Stone, to Xerox Corp. Aperture card cleaner. 3,117,333, 1–14–64, Cl. 15—1.5.

Murray, Thomas C., R. H. Liva, and N. H. Kaupp, to Xerox Corp. Xerographic plate holder. 3,143,044, 8–4–64, Cl. 95—1.7.

Murray, Thomas C., J. B. Stone, and F. S. Reese, to Xerox Corp. Xerographic plate cleaning apparatus. 3,149,356, 9–22–64, Cl. 15—1.5.

Murray, Thomas C., J. B. Stone, and F. S. Reese, to Xerox Corp. Apparatus for transferring xerographic images. 3,150,003, 9–22–64, Cl. 118—637.

Murray, Thomas C., J. B. Stone, and F. S. Reese, to Xerox Corp. Xerographic transfer apparatus. 3,150,004, 9–22–64, Cl. 118—637.

Murray, Thomas C., R. H. Liva, and N. H. Kaupp, to Xerox Corp. Xerographic processing apparatus. 3,160,057, 12–8–64, Cl. 88—24.

Murray, Thomas L.: *See*—
Robin, Harold K., and Murray. 3,155,773.

Murray, Thomas O. Skid control and traction device for vehicles. 3,156,492, 11–10–64, Cl. 291—42.

Murray, Thomas P., and G. T. Hanyo, to Jones & Laughlin Steel Corp. Apparatus for measuring the thickness of thin transparent films. 3,158,675, 11–24–64, Cl. 88—14.

Murray, Thomas R., H. N. Andrews, and W. W. Fahrion, to Westinghouse Electric Corp. Fuel follower for a reactor control rod. 3,138,536, 6–23–64, Cl. 176—40.

Murray, William B. Method of disinfecting and automatically maintaining the pH of water in a swimming pool. 3,123,554, 3–3–64, Cl. 210—60.

Murray, William L., to United States Steel Corp. Furnace roof. 3,129,678, 4–21–64, Cl. 110—99.

Murray, William L., to United States Steel Corp. Supporting structure. 3,144,842, 8–18–64, Cl. 110—99.

Murrell, Thomas, and R. R. Henry, to Muni Quip Corp. Frequency detector including noise rejection means. 3,148,328, 9–8–64, Cl. 324—78.

Murrills, William C. Phase sequence indicator including double throw switching means. 3,156,868, 11–10–64, Cl. 324—108.

Murry, Robert O., to International Resistance Co. Miniature potentiometer. 3,119,089, 1–21–64, Cl. 338—174.

Murtha, John R., to The Risdon Mfg. Co. Closure for pressurized packages. 3,161,331, 12–15–64, Cl. 222—394.

Murthy, Gopala K., J. E. Gilchrist, and J. E. Campbell, Jr., to United States of America, Atomic Energy Commission. Decontamination of milk from radioactive anionic ingredients. 3,148,989, 9–15–64, Cl. 99—60.

Murtland, James B., Jr.: *See*—
Weremeychik, Eugene A., and Murtland. 3,121,354.

Murtland, James B., Jr., to Allegheny Ludlum Steel Corp. Deviation thickness gage. 3,140,545, 7–14–64, Cl. 33—147.

Musaphia, Georges. Animated displays. 3,159,936, 12–8–64, Cl. 40—106.53.

Musat, George, S. J. Persinskie, and W. L. Sage, to The Babcock & Wilcox Co. Steam generator. 3,149,614, 9–22–64, Cl. 122—235.

Muse, John F., and H. L. Bigelow, to Baker Oil Tools, Inc. High temperature packer for well bores. 3,131,764, 5–5–64, Cl. 166—123.

Muse, Robert H. Boat trailers and shelters. 3,116,949, 1–7–64, Cl. 296—23.

Musel, Robert J., and C. A. Harlow, to The J. T. Baker Chemical Co. Dispensing closure for a container. 3,123,259, 3–3–64, Cl. 222—521.

Muset, Pedro P. Stabilization of enzymes. 3,133,001, 5–12–64, Cl. 195—68.

Musgrave, Daniel D. Electric circuit control systems. Re. 25,523, 2–25–64, Cl. 307—94.

Musgrave, Daniel D. Attachment release separation system. 3,116,663, 1–7–64, Cl. 89—1.5.

Musgrave, Daniel D. Aerodynamic counterweight. 3,149,531, 9–22–64, Cl. 89—1.7.

Musgrave, Daniel D. Electromechanical actuators. 3,158,796, 11–24–64, Cl. 317—187.

Musial, George J.: *See*—
Copithorne, Alton R., De Vita, Greene, Musial, Ioannilli, and Akerley. 3,142,278.

Musial, Norman T. Heat flux measuring device. 3,123,996, 3–10–64, Cl. 73—15.

Musichuk, Alexander B., to Duncan-Morris Co. Portable highway reflector unit. 3,161,720, 12–15–64, Cl. 88—79.

Musil, Hubert C.: *See*—
Batur, Eugene H., Shepard, Musil, and Gonia. 3,148,921.

Musil, Jay L. Deployable, inflatable ring-wing airfoil. 3,154,269, 10–27–64, Cl. 244—34.

Muskat, Louis R., and K. L. Klopfenstein, to Triangle Package Machinery Co. Method of and machine for automatically wrapping articles. 3,128,584, 4–14–64, Cl. 53—184.

Muskegon Piston Ring Co.: *See*—
Hamm, Douglas W. 3,136,559.
Westerlind, Arthur B. 3,132,551.

Muskegon Tool Industries, Inc.: *See*—
Gill, Warren E., and Eckerman. 3,124,980.

Muslin, Louis, W. Schindler, and F. Häfliger, to Geigy Chemical Corp. 5-basically substituted dibenzazepine compounds. 3,156,692, 11–10–64, Cl. 260—293.

Muslin, Louis, R. Pfister, and F. Häfliger, to Geigy Chemical Corp. 4-substituted 1,2-diaryl-3,5-dioxopyrazolidines. 3,156,700, 11–10–64, Cl. 260—310.

Musolf, Herbert G. Casing head. 3,134,610, 5–26–64, Cl. 285—3.

Musolf, Herbert G. Well head assembly. 3,155,401, 11–3–64, Cl. 285—18.

Musschoot, Albert, to Chain Belt Co. Base construction for vibratory feeder. 3,130,831, 4–28–64, Cl. 198—220.

Musschoot, Albert, to Chain Belt Co. Tunable car vibrator. 3,133,652, 5–19–64, Cl. 214—83.3.

Musschoot, Albert, to Chain Belt Co. Tiltable vibrating burnishing machine. 3,157,004, 11–17–64, Cl. 51—7.

Musschoot, Albert, and M. G. Thomson, to General Kinematics Corp. Vibratory device. 3,134,483, 5–26–64, Cl. 198—220.

Mussell, Sydney, to Westland Aircraft Ltd. Adjustable control means. 3,157,063, 11–17–64, Cl. 74—512.

Musser, Clair O., to Scientific Industries, Inc. Vibraphone. 3,138,986, 6–30–64, Cl. 84—410.

Musser, C Walton, to United Shoe Machinery Corp. Infinitely variable transmission. 3,117,468, 1–14–64, Cl. 74—640.

Musser, C Walton, to United Shoe Machinery Corp. Helical harmonic drive for a rotary plug valve. 3,117,763, 1–14–64, Cl. 251—165.

Musser, C Walton, to United Shoe Machinery Corp. Power transmission. 3,128,641, 4–14–64, Cl. 74—640.

Musser, C Walton. Timing device and dispenser. 3,129,845, 4–21–64, Cl. 222—41.

Musser, C Walton, to United Shoe Machinery Corp. Drive mechanism including self-compensating wave generator. 3,139,770, 7–7–64, Cl. 74—798.

Musser, C Walton, to United Shoe Machinery Corp. Wave generator for wave converter. 3,147,640, 9–8–64, Cl. 74—640.

Musser, C Walton, to United Shoe Machinery Corp. Rolling wedge drive. 3,161,081, 12–15–64, Cl. 74—640.

Musser, C Walton, to United Shoe Machinery Corp. Wave generator. 3,161,082, 12–15–64, Cl. 74—640.

Musser, C Walton, to United Shoe Machinery Corp. Torque indicator. 3,162,041, 12–22–64, Cl. 73—136.

Mussett, Harry L., and G. J. Hanggi, to Continental Oil Co. Soil injection apparatus. 3,148,643, 9–15–64, Cl. 111—7.4.

Mussett, Harry L., and F. C. Rustenbach, to Continental Oil Co. Holder for glass ball joints. 3,159,395, 12–1–64, Cl. 269—254.

Mustard, James F., to Her Majesty in right of Canada. Composition and method for correcting foods and blood conditions having clot promoting characteristics. 3,156,616, 11–10–64, Cl. 167—65.

Mustee, Bernard E., to E. L. Mustee & Sons, Inc. Incinerator ash shaker. 3,123,026, 3–3–64, Cl. 110—18.

Mustee, Bernard E., to E. L. Mustee & Sons, Inc. Utility tub construction. 3,129,436, 4–21–64, Cl. 4—183.

Mustee, E. L., & Sons, Inc.: *See*—
Mustee, Bernard E. 3,123,026.
Mustee, Bernard E. 3,129,436.

Musto, Daniel F. Apparatus for tying leaders and lines. 3,131,957, 5–5–64, Cl. 289—17.

Mustonen, Reino H.: *See*—
Hall, Fred T., and Mustonen. 3,118,196.

Musy, Andre P., to Edouard Dubied et Cie (Societe Anonyme). Adjusting device for the tool of a machine tool. 3,136,190, 6–9–64, Cl. 82—24.

Musy, Andre P., to Edouard Dubied, et Cie (Societe Anonyme). Hydraulically operated tool holder indexing. 3,162,064, 12–22–64, Cl. 74—822.

Muszynski, Peter C., and A. G. Weyrich, to Amerline Corp. Bobbin with insulated lead-in means. 3,117,294, 1–7–64, Cl. 336—192.

Mut, Stuart C., to The Atlantic Refining Co. Method for obtaining seismic velocity data using well logs and seismograms. 3,152,314, 10–6–64, Cl. 340—15.5.

Muta, Akinori, and Y. Uehara, to Kabushiki Kaisha Hitachi Seisabusho. Method of pulverizing graphite. 3,157,364, 11–17–64, Cl. 241—16.

Mutchnik, Henry and M. Furniture leg mounting. 3,142,467, 7–28–64, Cl. 248—188.
Mutchnik, Melvin: *See*—
Mutchnik, Henry and M. 3,142,467.
Muter Co., The: *See*—
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Rollefson, Karl E. 3,129,490.
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Chevreux, Gerard, and Muterel. 3,159,433.
Muth, Charles K.: *See*—
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Muth, Daniel T., and E. A. Zawadzki, to Bituminous Coal Research, Inc. Laboratory furnace. 3,140,335, 7–7–64, Cl. 13—20.
Muth, George, to Kohler Mold and Machine. Molds for air bags and bladders. 3,159,082, 12–1–64, Cl. 90—13.4.
Muth, Herbert, to Telefunken Patentverwertungs- G.m.b.H. pH-measuring endo-radiosonde. 3,133,537, 5–19–64, Cl. 128—2.
Muth, Herbert, to Telefunken Aktiengesellschaft. Pill-type swallowable transmitter. 3,144,017, 8–11–64, Cl. 128—2.1.
Muth, Herbert, to Telefunken Aktiengesellschaft. Air traffic control. 3,159,831, 12–1–64, Cl. 343—6.
Muth, Karl: *See*—
Aumüller, Walter, and Muth. 3,150,178.
Muthler, John. Overrunning clutch tool feed. 3,132,541, 5–12–64, Cl. 77—5.
Mutnick, Stanley: *See*—
Paustian, John E., Mutnick, and Fein. 3,158,651.
Mutschler, Edward C., to Engelhard Hanovia, Inc. Light communication system employing superimposed currents applied to a high intensity light source. 3,156,826, 11–10–64, Cl. 250—199.
Muttart, M. D.: *See*—
Hoveland, Julian C. 3,138,303.
Mutter, August, to Uhrenfabrik Muller-Schlenker, and VDO Tachometer Werk Adolf Schindling GmbH. Device for automatic regulation of clocks in connection with setting of the hands. 3,157,023, 11–17–64, Cl. 58—85.5.
Mutter, Karl J., to Camag, Chemie-Eryeugnisse und Adsorptiontechnik AG. Applicator for use in chromatographic analysis. 3,122,781, 3–3–64, Cl. 18—1.
Mutter, Robert A., and D. O. Shepherd, to Walter Kidde & Co., Inc. Textile warp preparing apparatus. 3,160,942, 12–15–64, Cl. 28—32.
Mutti, Daniel S. Fishing lure. 3,154,877, 11–3–64, Cl. 43—42.51.
Mutto, Theodore R., to Nestaway Inc. Vehicle couplers. 3,140,882, 7–14–64, Cl. 280—481.
Mutziger, John S., to Minneapolis-Honeywell Regulator Co Cam operated spacer for transducers. 3,123,811, 3–3–64, Cl. 340—174.1.
Muzinich, Anthony L. Produce packing table unit. 3,161,004, 12–15–64, Cl. 53—391.
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Myaida, Grace B., and S. J. Birdhouse. 3,130,706, 4–28–64, Cl. 119—23.
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Lashley, Everett R., and Myerly. 3,141,904.
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Myers, Donald O., to Stewart-Warner Corp. Rotatable electrical connection for pointer. 3,129,989, 4–21–64, Cl. 339—2.
Myers, Earl E., to Gulf Research & Development Co. Quaternary ammonium fatty, phenate and naphthenate salts. 3,158,647, 11–24–64, Cl. 260—501.
Myers, F. E., & Bro. Co., The: *See*—
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Myers, Forest J., to Newport News Shipbuilding and Dry Dock Co. Transport vehicle construction. 3,147,715, 9–8–64, Cl. 105—367.
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Myers, Henry L., deceased, by V. Nichols, executrix, to V. Nichols. Vapor vacuum liquid removal system. 3,149,570, 9–22–64, Cl. 103—5.
Myers, Henry L., deceased, by V. Nichols, executrix, to V. Nichols. Deep well liquid removal system. 3,149,571, 9–22–64, Cl. 103—5.
Myers, Herbert, to Socony Mobile Oil Co., Inc. Oil dispersions of metallic sulfides and method for preparing the same. 3,125,520, 3–17–64, Cl. 252—25.
Myers, Herbert A.: *See*—
Forth, Murray W., Harrington, and Myers. 3,149,585.
Myers, John W., to Phillips Petroleum Co. Production of normally liquid olefins. 3,151,180, 9–29–64, Cl. 260—683.3.
Myers, Lane M. Wire coiler. 3,152,770, 10–13–64, Cl. 242—54.
Myers, Lawrence A.: *See*—
Hostetler, Eldon, and Myers. Re. 25,589.
Myers, Lester L., to Mobil Aerial Towers, Inc. Fluid control system and apparatus. 3,133,471, 5–19–64, Cl. 91—51.
Myers, Lois F. Wearing apparel with adjustable belt. 3,155,-983, 11–10–64, Cl. 2—76.
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Myers, Mark D., G. A. Noble, J. W. Simmons, and W. C. Bennett, to The Alliance Machine Co. Container ship cranes. 3,130,840, 4–28–64, Cl. 214—15.
Myers, Noel W., to A. E. Staley Mfg. Co. Method for continuous degumming of vegetable oil. 3,134,794, 5–26–64, Cl. 260—424.
Myers, Paul D., to Aerpa Aktien Gesellschaft. Movable detent fastener for variable thickness work. 3,117,484, 1–14–64, Cl. 85—5.
Myers, Paul D., to Aerpat Aktien Gesellschaft. Releasable fastener. 3,158,059, 11–24–64, Cl. 85—77.
Myers, Richard T., and R. E. Metzler, to General Electric Co. Communication receiver with noise blanking. 3,140,445. 7–7–64, Cl. 325—478.
Myers, Richard T., and F. E. Spangler, to General Electric Co. Communication receiver with noise blanking. 3,140,446, 7–7–64, Cl. 325—478.
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Myers, Vernon L., V. G. Biedenstein, and R. A. Nelson, to R. C. Can Co. Device for discharging viscous fluid. 3,130,-872, 4–28–64, Cl. 222—82.
Myers, Welton O.: *See*—
Warren, Horace G., and Myers. 3,125,265.
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Myers, William C.: *See*—
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Myers, William D., to Baker Oil Tools, Inc. Liner hanger apparatus. 3,117,628, 1–14–64, Cl. 166—208.
Myers, William D., to Baker Oil Tools, Inc. Convertible well packer and bridge plug. 3,131,765, 5–5–64, Cl. 166—133.
Myers, William D., to Baker Oil Tools, Inc. Hydraulically set well packer. 3,136,364, 6–9–64, Cl. 166—120.
Myers, William R.: *See*—
Pruett, Roy L., and Myers. 3,159,659.
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Myerson, Simon and R. L., to Myerson Tooth Corp. Hypodermic syringe and cartridge. 3,158,155, 11–24–64, Cl. 128—215.
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Myles, William J.: *See*—
Browne, Colin L., and Myles. 3,135,576.
Mylie, Salvatore. Control device for street flasher light. 3,153,774, 10–20–64, Cl. 340—119.
Myll, Clifton O. Pipe connector construction. 3,156,490, 11–10–64, Cl. 285—121.
Mylo, John, J. C. Cole, and J. P. Richeson, to Monsanto Co. Continuous annealer. 3,159,873, 12–8–64, Cl. 18—1.
Mylting, Lauritz E., to A-S-H Industries, Inc. Apparatus for conveying powdered materials. 3,117,821, 1–14–64, Cl. 302—64.
Mynall, Dennis J., to Associated Electrical Industries Ltd. Binary digital multiplier and adder arrangement. 3,124,-676, 3–10–64, Cl. 235—164.
Mynatt, Willis L.: *See*—
Oakey, William E., Baker, Mynatt, Millard, and Weisberg. 3,130,850.
Mynchenberg, George C. Roll supporting arbor. 3,156,425, 11–10–64, Cl. 242—55.53.
Myrén, Hoger P., to Tranas Guldlistfabrik, Aktiebolaget. Canvas stretching frame. 3,133,375, 5–19–64, Cl. 45—130.
Myrent, Harry L., and S. J. Szczesniak, to Vapor Corp. Alternate action push button actuator. 3,148,255, 9–8–64, Cl. 200—104.
Mysiak, Eugene J., to Fastener Corp. Magazine construction. 3,156,920, 11–17–64, Cl. 1—3.1.
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Kusek, Edwin F. 3,155,301.
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Screnock, Joseph J., and Forse. 3,152,004.
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Cornelius, Nelson F. 3,118,560.
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NRM Corp.: *See*—
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Froede, Walter. 3,139,072.
Froede, Walter. 3,142,439.
Froede, Walter G. 3,120,815.
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Naab, Gerard A., and M. F. Smith, to Brewer Pharmacal Engineering Corp. Article storage and dispensing cart. 3,150,902, 9–29–64, Cl. 312—217.

Naab, Julius, to Ingersoll-Rand Co. Non-lubricated piston. 3,149,543, 9–22–64, Cl. 92—155.

Naamloze Vennootschap: Echfa, Voorheen Enschedesche Chemotechnische Handelsonderneming en Fabriek N.V.: *See*—
Vandeberg, Johannes H. W. 3,126,130.

Nabal, Emerson E., to United States of America, Navy. Soldering machine. 3,126,854, 3–31–64, Cl. 113—124.

Naber, Joseph S.: *See*—
Doyle, Richard H., Hermann, and Naber. 3,141,171.

Naborney, Erwin: *See*—
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Naborney, Erwin, to American Sugar Co. Dry pulverulent brown sugar and process for producing same. 3,140,202, 7–7–64, Cl. 127—63.

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Nachtman, Elliot S., to La Salle Steel Co. Process and apparatus for the production of improved steel tubing. 3,163,285, 12–29–64, Cl. 205—8.

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Nachtman, John S., and H. G. Poole. Preparation of metals and alloys of molybdenum, nickel, cobalt and tungsten. 3,152,886, 10–13–64, Cl. 75—84.

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Nadeau, Herman A., to General Electric Co. Multiple circuit breaker assembly. 3,158,701, 11–24–64, Cl. 200—50.

Nadeau, James W., to Monroe Paper Products Co. Re-usable carton. 3,118,592, 1–21–64, Cl. 229—44.

Nadeau, Stuart F., to Drexel Dynamics Corp. Method and apparatus for simultaneously producing a superimposed multi-image display. 3,151,520, 10–6–64, Cl. 88—24.

Nadherny, Russell J., to General Binding Corp. Curling machine for plastic binding elements. 3,122,791, 3–3–64, Cl. 18—19.

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Naef, Hans J., to Krestis Anstalt. Articulation device for a chair with a tilting back. 3,133,764, 5–19–64, Cl. 297—367.

Naffziger, Dewein H., to General Motors Corp. Automatic metal pouring machine. 3,122,800, 3–3–64, Cl. 22—77.

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Nagata, Wataru, to Shionogi & Co., Ltd. Intermediate products in the synthesis of 21-acyloxy-11β-hydroxy-3,20-dioxo-4-pregnen-18-oic acid (11-18)-lactone. 3,144,450, 8–11–64, Cl. 260—239.57.

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McMaster, Elmer L., and Nagle. 3,123,440.
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Nakamura, Hajime, to Ishikawajima-Harima Jukogyo Kabushiki Kaisha. Manganese-molybdenum ductile steel. 3,155,496, 11–3–64, Cl. 75—124.
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Nallinger, Friedrich K. H., to Daimler-Benz Aktiengesellschaft. System for indicating the pressure of the lubricant circulating in an internal combustion engine. 3,119,991, 1–28–64, Cl. 340—270.
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Nallinger, Friedrich K. H., to Daimler-Benz Aktiengesellschaft. Locking mechanism for vehicles. 3,124,950, 3–17–64, Cl. 70—264.
Nallinger, Friedrich K. H., to Daimler-Benz Aktiengesellschaft Speed indicator. 3,125,985, 3–24–64, Cl. 116—116.
Nallinger, Friedrich K. H., to Auto Union G.m.b.H. Process and apparatus for lubricating internal combustion engines. 3,140,700, 7–14–64, Cl. 123—119.
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Naturizer, Inc.: *See*—
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Nau, David H. Coffee preparing and dispensing apparatus. 3,126,812, 3–31–64, Cl. 99—283.
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Nauschütz, Peter, E. Planitzer, and W. Schindler, to Bolkow-Entwicklungen Kommanditgesellschaft. Guidable flying bodies. 3,157,372, 11–17–64, Cl. 244—14.
Nauta, Constant J. Device for mixing substances in powder or granular form and also for mixing plastic material. 3,118,655, 1–21–64, Cl. 259—102.
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Nava, Joseph A., and H. W. Meresz, to The Pyle-National Co. Male connector contact. 3,143,386, 8–4–64, Cl. 339—252.
Nava, Joseph A., and J. R. Williams, to The Pyle National Co. Quick disconnect connector. 3,152,850, 10–13–64, Cl. 339—89.
Nava, Joseph A., and R. L. Hume, to The Pyle-National Co. Butterfly sealing gland. 3,158,379, 11–24–64, Cl. 277—206.
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Nawman, Rollie B., to Benner-Nawman, Inc. Folding tray construction. 3,146,891, 9–1–64, Cl. 211—126.
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Nay, Eugene R. Apparatus for manufacturing snow cones. 3,126,841, 3–31–64, Cl. 107—1.
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Doyle, Frank P., Nayler, and Smith. 3,120,514.
Nayler, John H. C., and E. R. Stove, to Beecham Research Laboratories Ltd. Substituted phosphoramidopenicillanic acids. 3,118,878, 1–21–64, Cl. 260—239.1.
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Neale, Herbert S. Wire connector. 3,145,068, 8–18–64, Cl. 339—200.
Neale, John D. Composite floor structure and reinforcing, aligning and mortar gaging mat assembly therefor. 3,148,-482, 9–15–64, Cl. 50—343.
Neale, Leslie A., to Hayden-Nilos Ltd. Belt-fastening machines. 3,142,842, 8–4–64, Cl. 1—342.
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Nebel, Max B. and E. M. Run resistant knitted stockings. 3,157,037, 11–17–64, Cl. 66—178.
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Nebout, Noel, to Societe Anonyme des Pneumatiques Dunlop. Machine for folding over each other portions of a sleeve of flexible material such as rubber fabric. 3,154,455, 10–27–64, Cl. 156—443.
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Neil, Donald F. Adjustable screeding machines. 3,118,353, 1–21–64, Cl. 94—45.
Neil, Hugh G., to The University of Tennessee Research Corp. Apparatus for testing porous material. 3,116,629, 1–7–64, Cl. 73—38.
Neil, Hugh G., C. L. Gladson, and E. R. Wiklund, to Special Instruments Laboratory, Inc. Portable electronic public address apparatus. 3,126,450, 3–24–64, Cl. 179—1.
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Neitzer, Jacob, Jr. Self-propelled riding attachment for an implement. 3,161,994, 12–22–64, Cl. 51—176.
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Nejedly, Miroslav, to Zavody V. I. Lenin. Shafts of mechanical kilns with superposed floors for roasting of ores and similar purposes. 3,130,251, 4–21–64, Cl. 266—32.
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Nelkin, Henry G., to H.G. Enterprises. Roller paint applicator. 3,160,909, 12–15–64, Cl. 15—522.
Nell, Frederic, to Landis Machine Co. Profile rolling attachment. 3,145,590, 8–25–64, Cl. 80—6.
Nelle, Rudolf, to Norddeutsche Seekabelwerke Aktiengesellschaft. Protective wrappers for breakable articles. 3,128,895, 4–14–64, Cl. 215—12.
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Nelson, Alden W., and G. E. Sisson, to Crompton & Knowles Corp. Reel-winding apparatus. 3,118,627, 1–21–64, Cl. 242—25.
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Nelson, Alvin C. Manually operated snow removing device. 3,154,336, 10–27–64, Cl. 294—54.
Nelson, Andrew J., and J. Butka, to Butkin Tool and Mfg. Corp. Automatic life jacket inflator for self-contained underwater breathing apparatus. 3,147,499, 9–8–64, Cl. 9—313.
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Nelson, Benjamin J. H. Method of calendering. 3,153,378, 10–20–64, Cl. 100—38.
Nelson, Brooks E., to The Osborn Mfg. Co. Segmental rotary brush. 3,134,123, 5–26–64, Cl. 15—182.
Nelson, Brooks E., to The Osborn Mfg. Co. Double end brush. 3,142,080, 7–28–64, Cl. 15—106.
Nelson, Brooks E., and W. A. Gray, to The Osborn Mfg. Co. Twisted tuft rotary brush. 3,139,642, 7–7–64, Cl. 15—198.
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Nelson, Elnathan K. Anti-blast and anti-suction air valve for atomic bomb shelter. 3,132,666, 5–12–64, Cl. 137—516.25.
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Nelson, Gilbert E., to Liquid Drive Corp. Fluid coupling. 3,157,999, 11–24–64, Cl. 60—54.
Nelson, Glenn W., to The New York Central Railroad Co. Automatic journal box oiling apparatus. 3,155,191, 11–3–64, Cl. 184—2.
Nelson, Gordon A., and F. D. Henry, to Northrop Corp. Flight simulator. 3,135,057, 6–2–64, Cl. 35—12.
Nelson, Harold E., to Automatic Canteen Co. of America. Vending machine service tray. 3,124,400, 3–10–64, Cl. 312—281.
Nelson, Harry, to Artcraft Venetian Blind Mfg. Co. of St. Louis. Ventian blind tilter construction. 3,122,198, 2–25–64, Cl. 160—176.
Nelson, Harry, to Enamel Products. Splicer. 3,129,489, 4–21–64, Cl. 29—21.1.
Nelson, Harry E. and R. L. Portable livestock loading chute. 3,148,664, 9–15–64, Cl. 119—82.
Nelson, Harry W. Safety goggles. 3,147,489, 9–8–64, Cl. 2—14.
Nelson, Herbert, and C. W. Benyon, Jr., to Radio Corp. of America. Semiconductor devices and methods of making them. 3,158,512, 11–24–64, Cl. 148—1.5.
Nelson, Howard N., to Kimberly-Clark Corp. Cellulosic product. 3,160,337, 12–8–64, Cl. 225—32.
Nelson, Ivan W. A., to General Electric Co. Automatic gain control circuit. 3,132,306, 5–5–64, Cl. 330—70.
Nelson, Iver L., to Waldorf Paper Products Co. Lined containers. 3,157,341, 11–17–64, Cl. 229—14.
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Nelson, James K., to Westinghouse Electric Corp. Ice maker apparatus. 3,143,863, 8–11–64, Cl. 62—72.
Nelson, Jeffery N., W. E. Bennington, and M. S. Bates. Calendars. 3,142,920, 8–4–64, Cl. 40—122.
Nelson, Jerome W.: *See*—
Rieppel, Perry J., Faulkner, and Nelson. 3,137,782.
Nelson, Jerome W., to Esso Research and Engineering Co. Control system for welding machinery. 3,126,471, 3–24–64, Cl. 219—60.
Nelson, Jerome W., and F. A. de Saw, to Esso Research and Engineering Co. Apparatus for cutting annular wall elements of tubular bodies. 3,130,524, 4–28–64, Cl. 51—165.
Nelson, Jerry A.: *See*—
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Dettre, Robert H., and Nelson. 3,161,537.
Nelson, Jim D.: *See*—
Flynn, James P., and Nelson. 3,127,041.
Nelson, John F., to Illinois Tool Works Inc. Support assembly for a perforated board. 3,163,132, 12–29–64, Cl. 108—152.
Nelson, John H. Process for preventing russeting of potato tubers. 3,137,561, 6–16–64, Cl. 71—1.
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Girouard, Philias H., Hickman, Kane, Nelson, Neuman, Randolph, and Collier. 3,136,214.
Girouard, Philias H., Hickman, Kane, Nelson, Neuman, Randolph, and Collier. 3,144,809.
Girouard, Philias H., Hickman, Kane, Nelson, Neuman, Randolph, and Collier. 3,146,671.
Girouard, Philias H., Hickman, Kane, Nelson, Neuman, Randolph, and Collier. 3,146,672.
Nelson, John R.: *See*—
Gardner, Mark B., and Nelson. 3,145,269.
Nelson, John W., to Sinclair Research Inc. Calcium alkenyl succinate grease making. 3,136,725, 6–9–64, Cl. 252—39.
Nelson, John W. Clamping tool. 3,150,870, 9–29–64, Cl. 269—91.
Nelson, John W., to Sinclair Research, Inc. Phosphorus containing insecticides and method. 3,159,533, 12–1–64, Cl. 167—30.
Nelson, Kurt, and W. A. Scott, to The De Laval Separator Co. Automatic flow regulator. 3,117,590, 1–14–64, Cl. 137—504.
Nelson, La Von, to Lurex Mfg. Co. Valves for use in laboratory glassware. 3,142,474, 7–28–64, Cl. 251—309.
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Franzen, Earl P., Maycock, Nelson, and Smith. 3,147,-084.
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Duncan, Robert H., and Nelson. 3,138,513.
Nelson, Lorne W., to Honeywell Inc. Control apparatus. 3,158,319, 11–24–64, Cl. 236—9.
Nelson, Marcellus. Collator for folded sheets. 3,128,092, 4–7–64, Cl. 270—54.
Nelson, Martin L. Push-turn switching key. 3,134,862, 5–26–64, Cl. 200—4.
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Nelson, Milton E. Dental handpiece. 3,136,059, 6–9–64, Cl. 32—28.
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Nelson, Norman A., to Jersey Production Research Co. Method and apparatus for borehole operations. 3,143,170, 8–4–64, Cl. 166—35.
Nelson, Norman A., to The Upjohn Co. 25-azacholesterol N-oxide and derivatives. 3,144,471, 8–11–64, Cl. 260—397.5.
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Nelson, Permil N., to Lynn H. Ewing, d.b.a. Blackhawk Co. Weed killer tool. 3,118,402, 1–21–64, Cl. 111—7.1.
Nelson, Permil N., to L. H. Ewing. Toe nailing device. 3,147,484, 9–8–64, Cl. 1—47.
Nelson, Permil N., to L. H. Ewing. Adjustable carpenter's square. 3,154,857, 11–3–64, Cl. 33—93.
Nelson, Robert C., to Accurate Screw Products, Inc. Toolholder. 3,141,229, 7–21–64, Cl. 29—98.
Nelson, Robert E., to General Motors Corp. Turbine air inlet temperature fuel control for a gas turbine engine. 3,124,-932, 3–17–64, Cl. 60—39.28.
Nelson, Robert E. Pump and liquid level regulator. 3,134,-332, 5–26–64, Cl. 103—22.
Nelson, Robert E. Seal assembly for a bore. 3,143,934, 8–11–64, Cl. 92—250.

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Nelson, Robert K., and A. J. Nenadal, to Eaton Mfg. Co. Multi-speed tandem drive axle mechanism. 3,146,842, 9–1–64, Cl. 180—22.
Nelson, Robert K., and A. J. Nenadal, to Eaton Mfg. Co. Automotive drive axle. 3,153,464, 10–20–64, Cl. 184—11.
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Nelson, Robert L. End gate mounted grain auger. 3,128,894, 4–14–64, Cl. 214—509.
Nelson, Robert S., to Chicago Rawhide Mfg. Co. Self-contained oil seal assembly. 3,156,474, 11–10–64, Cl. 277—39.
Nelson, Roland D., and D. K. Rex, to International Business Machines Corp. Print hammer drive mechanism. 3,155,033, 11–3–64, Cl. 101—93.
Nelson, Rolland A.: *See*—
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Nelson, Ted. Bed. 3,149,349, 9–22–64, Cl. 5—66.
Nelson, Theodore W., and J. S. McNiel, Jr., to Socony Mobil Oil Co., Inc. Recovery of hydrocarbon material from a subterranean formation by in-situ combustion. 3,126,953, 3–31–64, Cl. 166—11.
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Nelson, Walter E., to Varian Associates. High frequency tube apparatus with fluid cooled tuner. 3,122,669, 2–25–64, Cl. 313—24.
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Nelson, William G., IV, to E. I. du Pont de Nemours and Co. Flame retardant moldable thermoplastic formulations based upon hydrocarbon resin, chlorinated hydrocarbon resin, and antimony trioxide. 3,121,067, 2–11–64, Cl. 260—41.
Nelsson, Nels, to United States Gypsum Co., Supended ceiling construction and clip therefor. 3,163,266, 12–29–64, Cl. 189—35.
Nelsson, Nels, and D. S. Payne, to United States Gypsum Co. Means for positioning the supporting members in a wall construction. 3,153,567, 10–20–64, Cl. 189—34.
Němec, Jaroslav, J. Ječminek, and O. Caha, to Presena mechanika, narodny podnik. Recording spirometer. 3,129,705, 4–21–64, Cl. 128—2.07.
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Nemes, Elmer P. Multiple radiation source microscope. 3,129,353, 4–14–64, Cl. 315—10.
Nemes, Joseph J., and W. P. Munro, to American Cyanamid Co. Preparation of dispersions containing hydrous aluminum oxide. 3,149,073, 9–15–64, Cl. 252—8.6.
Nemeth, John L. Process for inhibiting the setting of cementitious compositions. 3,151,995, 10–6–64, Cl. 106—89.
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Delacretaz, Richard E., Nemphos, and Walter. 3,160,616.
Nemphos, Speros P., to Monsanto Co. Molecular weight regulation in polymerization of vinylidene monomers using 3-methyl-1-phenyl-pyrazolone-5 as regulator. 3,160,617, 12–8–64, Cl. 260—85.5.
Nemphos, Speros P., and R. L. Walter, to Monsanto Co. Molecular weight regulation in polymerization of vinylidene monomers using unsaturated aldehydes as regulators. 3,160,614, 12–8–64, Cl. 260—85.5.
Nemsky, Philip. Container with push button combination locking mechanism. 3,155,230, 11–3–64, Cl. 206—1.5.
Nenadal, Andrew J.: *See*—
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Nepomniashtshy, Igor L., to Konstruktorskoje Bureau Koksohim-mash Giprokoksa. Machine for removal and mounting of covers of the coke oven loading manholes and for subsequent removal of coal charge around these manholes. 3,160,573, 12–8–64, Cl. 202—241.
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Nerheim, Arvie G., to Standard Oil Co. Gas density balance. 3,117,439, 1–14–64, Cl. 73—30.
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Nero, Anthony P., and J. W. Ryan, to Corning Glass Works. Method of using layered glassworking tool. 3,157,482, 11–17–64, Cl. 65—17.
Neros, Clifford A., and N. V. Seeger, to Diamond Alkali Co. Aqueous solution of steroregular polyvinyl alcohol; method of making same; foams; fibers, and fibers obtained therefrom. 3,141,003, 7–14–64, Cl. 260—2.5.
Nerwin, Hubert, to Eastman Kodak Co. Automatic exposure control system. Re. 25,563, 4–28–64, Cl. 95—10.
Nerwin, Hubert, to Eastman Kodak Co. Automatic exposure control for photographic camera. Re. 25,635, 9–1–64, Cl. 95—10.
Nerwin, Hubert, to Eastman Kodak Co. Roll film magazine. 3,138,081, 6–23–64, Cl. 95—31.
Nesbitt, John D., and H. M. Kohn, to Midland-Ross Corp. Method and apparatus for heating fluids. 3,116,915, 1–7–64, Cl. 263—19.
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Wood, Norman H., and Nesbitt. 3,130,563.
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Nesin, Asher. Method of making crystalline alumina lapping powder. 3,121,623, 2–18–64, Cl. 51—293.
Nesmith, James A. Automatic coffee brewing device. 3,143,954, 8–11–64, Cl. 99—289.
Ness, Conrad M.: *See*—
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Ness, Peder M., to Bell Telephone Laboratories, Inc. Grinding apparatus and method. 3,158,968, 12–1–64, Cl. 51—125.
Ness, Richard A. Fistulizing canaliculus. 3,159,161, 12–1–64, Cl. 128—350.
Ness, Royal V. Insecticide applicator for animals. 3,144,004, 8–11–64, Cl. 119—157.
Nesslinger, Fritz J., and A. C. Borgman, to The Patent Scaffolding Co., Inc. Mobile extendable scaffold. 3,157,248, 11–17–64, Cl. 182—152.
Nestaway Inc.: *See*—
Mutto, Theodore R. 3,140,882.
Nettco Corp.: *See*—
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Nettel, Frederick. Combined steam turbine-air turbine power plants. 3,127,744, 4–7–64, Cl. 60—49.
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Neubauer, Emil T., and R. E. Comstock, to Copeland Refrigeration Corp. Compressor unloading means. 3,144,982, 8–18–64, Cl. 230—30.
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Neugebauer, Franz J., to General Electric Co. Liquid cooled condenser. 3,135,322, 6–2–64, Cl. 165—158.
Neugebauer, Gerhardt C. Wrist band illuminating device. 3,116,883, 1–7–64, Cl. 240—6.43.
Neugebauer, Wilhelm, O. Süs, G. Fritz, and F. Uhlig, to Azoplate Corp. Process for preparing printing plates comprising naphthoquinone diazides reproduction coatings. 3,130,-049, 4–21–64, Cl. 96—33.
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Neuhaus, Hermann, to Applied Research Laboratories, Inc. Mechanical motion and X-ray spectrographic apparatus incorporating it. 3,123,710, 3–3–64, Cl. 250—51.5.
Neuhaus, Hermann, to Applied Research Laboratories, Inc. Position adjustment mechanism and X-ray spectrometer including it. 3,153,144, 10–13–64, Cl. 250—51.5.
Neuhaus, Theodore A., and H. J. Kiefer, to The Glidden Co. Coating composition combining blown hydrocarbon drying oils and aminealdehyde resins. 3,135,712, 6–2–64, Cl. 260—33.6.
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Neukom, Alfred, to H. A. Schlatter, A.G. Control apparatus for welding machines and the like. 3,145,627, 8–25–64, Cl. 91—442.
Neukom, Alfred, and H. U. Neidhardt, to H. A. Schlatter, A.G. Arrangement for resistance flash butt-welding. 3,119,927, 1–28–64, Cl. 219—97.
Neukom, Alfred, and G. Rabenow, to H. A. Schlatter, A.G. Resistance butt welding machine and arrangement for removing the welding flash. 3,134,012, 5–19–64, Cl. 219—101.
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Neumann, Georg. Electro-mechanical transducer with negative feedback for the recording and reproduction of sound waves. 3,133,161, 5–12–64, Cl. 179—100.41.
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Neumann, Karl., to Moeller & Neumann G.m.b.H. Rolling mill and control system. 3,124,982, 3–17–64, Cl. 80—56.
Neumann, Karl J. Rolling mills of the type provided with a cooling bed and subsequent adjustment arrangements which include straightening and dividing means. 3,135,143, 6–2–64, Cl. 80—31.1.
Neumann, Richard A. Bowling ball lock. 3,130,571, 4–28–64, Cl. 70—58.
Neumann, Vera, to Scarves by Vera, Inc. Combination headgear and scarf. 3,141,176, 7–21–64, Cl. 2—207.
Neumeier, Albert, R. B. Johnson, and R. J. Krause, to Omark Industries, Inc. Method and apparatus for forming a chisel type cutter link. 3,154,972, 11–3–64, Cl. 76—112.
Neumeister, Ewald W. Adapter kit for cameras. 3,160,083, 12–8–64, Cl. 95—34.
Neunzig, Heinrich, to Vereinigte Aluminium-Werke A.G. Method for glossing articles made of aluminum and particularly pure aluminum and its alloys. 3,155,556, 11–3–64, Cl. 156—21.
Neuschotz, Robert. Self-aligning threaded insert with resilient retaining ring. 3,130,765, 4–28–64, Cl. 151—41.73.
Neuschotz, Robert. Threaded insert installing tool. 3,152,-495, 10–13–64, Cl. 81—53.
Neuschotz, Robert. Polygonal threaded inserts. 3,159,074, 12–1–64, Cl. 85—47.
Neuschotz, Robert. Method of forming a self-tapping threaded element. 3,159,842, 12–1–64, Cl. 10—10.
Neustadter, Irving. Molded bathing cap. 3,120,003, 2–4–64, Cl. 2—68.
Neustaedter, Harold A. Lead smelting. 3,149,190, 9–15–64, Cl. 266—10.
Neuwald, Alfred A., and W. F. Donovan, to The Fragrance Process Co., Inc. Scenting device. 3,140,147, 7–7–64, Cl. 21—119.
Neuwirth, Herman, to Testrite Instrument Co., Inc. Collapsible multi-position easel. 3,145,014, 8–18–64, Cl. 248—464.
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Nichols, Gordon E., to Winthrop-Atkins Co., Inc. Calendar mount. 3,149,816, 9–22–64, Cl. 248—465.

Nichols, Gordon E., to Winthrop-Atkins Co., Inc. Desk mount. 3,150,777, 9–29–64, Cl. 211—42.

Nichols, Gordon E., to Winthrop-Atkins Co., Inc. Calendar mount. 3,152,415, 10–13–64, Cl. 40—120.

Nichols, Gus, to Standard Oil Co. (Indiana). Process for polymerizing olefins. 3,121,125, 2–11–64, Cl. 260—683.15.

Nichols, Gust, to Miles Laboratories, Inc. Aminoketone derivatives. 3,146,235, 8–25–64, Cl. 260—268.

Nichols, Harry J. Controllable reversible pitch propeller. 3,138,136, 6–23–64, Cl. 115—17.

Nichols, Harry J. Quick keyless couplings. 3,143,366, 8–4–64, Cl. 287—53.

Nichols, Howard H., and J. D. Keller, to Hazen Engineering Co. Control of scale formation in seamless tubes in expanding mills. 3,148,445, 9–15–64, Cl. 29—552.3.

Nichols, Hugh E.: *See*—
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Nichols, Irvin H. Removable blade arrangement with recesses therein for receiving support projections. 3,160,967, 12–15–64, Cl. 37—141.

Nichols, James A.: *See*—
Davis, Augustine, Jr., and Nichols. 3,131,791.

Nichols, John B. Sailing vessel. 3,142,282, 7–28–64, Cl. 114—102.

Nichols, John B., to Hiller Aircraft Co., Inc. Aircraft landing gear. 3,144,223, 8–11–64, Cl. 244—100.

Nichols, John M. 2-metachlorophenyl-2-parachlorophenyl-1,1-dichlorethane. 3,148,221, 9–8–64, Cl. 260—649.

Nichols, John W. de L., and A. C. MacKellar, to National Research Development Corp. Electrical counter chain type timing arrangements. 3,154,743, 10–27–64, Cl. 328—48.

Nichols, Kenneth E., C. N. Hall, and A. Malgieri, to Sundstrand Corp. Centrifugal pumps. 3,162,135, 12–22–64, Cl. 103—103.

Nichols, Luther E., to Walters Mfg. Co. Saw set works. 3,125,140, 3–17–64, Cl. 143—174.

Nichols, Nathaniel B., to Taylor Instrument Cos. Controller improvements including bumpless gain adjustment and prevention of reset windup. 3,127,105, 3–31–64, Cl. 236—78.

Nichols, Nathaniel B., to Taylor Instrument Companies. Extremum control systems and extremum selectors therefor. 3,135,872, 6–2–64, Cl. 307—80.

Nichols, Robert G. Reenforced bags. Re. 25,694, 12–1–64, Cl. 229—55.

Nichols, Robert G. Containers. 3,143,276, 8–4–664, Cl. 229—55.

Nichols, Robert M.: *See*—
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Nichols, Roy E., to Wisconsin Alumni Research Foundation. Medication for ruminants. 3,119,738, 1–28–64, Cl. 167—53.

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Myers, Henry L. 3,149,571.

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Nicholson, Clyde D. Twin rotor helicopter roundabout. 3,141,668, 7–21–64, Cl. 272—31.

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Hopgood, Robert B. 3,124,244.
Hopgood, Robert B. 3,124,245.
Thompson, Oran W., and Parmenter. 3,149,719.

Nicholson, Francis E., to Pullman Inc. Double chamber vacuum degassing method, apparatus, and ladle. 3,149,959, 9–22–64, Cl. 75—49.

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Abegg, Moroni T., Bottler, Deligans, and Nicholson. 3,121,825.

Nicholson, James F.: *See*—
Schneeberger, Robert J., Nicholson, and Lempert. 3,148,297.

Nicholson, Jerry E. Fold hopscotch board. 3,139,281, 6–30–64, Cl. 273—1.

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Obenschain, Arthur W., and Nicholson. 3,153,191.

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Riches, Denis G., and Jorgensen. 3,158,325.

Nicholson, Ronald G.: *See*—
Daniels, Charles S., and Nicholson. 3,146,963.

Nicholson, Robert T.: *See*—
Pappo, Raphael, and Nicholson. 3,159,619.

Nicholson, Thomas W. Veneer lathe loaders. 3,152,626, 10–13–64, Cl. 144—208.

Nick, Hans, and W. Bender, to Farbenfabriken Bayer Aktiengesellschaft. Means for concentrating suspensions. 3,117,084, 1–7–64, Cl. 210—241.

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Enk, Eduard, Nick, and Silbernagl. 3,141,849.

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Nickel, Wayne L.: *See*—
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Nickell, Claude H. Lawn edger. 3,123,147, 3–3–64, Cl. 172—16.

Nickell, Claude H. Lawn edging device. 3,123,828, 3–3–64, Cl. 56—241.

Nickell, Claude H., 50% to A. E. Wilson. Screw threading apparatus with mechanically actuated valve for controlling reversible fluid motor. 3,142,077, 7–28–64, Cl. 10—129.

Nickell, Harlan H.: *See*—
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Nickell, Lawrence C., and R. B. Fertig, to Appalachian Electronic Instruments, Inc. Seam jumper control for cloth shears. 3,129,484, 4–21–64, Cl. 26—17.

Nickell, Louis G., to Chas. Pfizer & Co., Inc. Process for stimulating plant growth. 3,118,754, 1–21–64, Cl. 71—2.5.

Nickerson, Basil S., to Mite Corp. Buttonholers. 3,146,741, 9–1–64, Cl. 112—77.

Nickerson, Basil S., and C. Curello, to Mite Corp. Buttonhole attachment for zigzag sewing machines. 3,132,611, 5–12–64, Cl. 112—77.

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Ehrreich, John E., Fazio, and Nickerson. 3,149,017.

Nickerson, James K., and R. E. Pennington, to Esso Research and Engineering Co. Production of dimethylterephthalate. 3,123,633, 3–3–64, Cl. 260—475.

Nickerson, John D., to International Minerals & Chemical Corp. Acidic phosphatic solutions. 3,118,730, 1–21–64, Cl. 23—165.

Nickerson, John D., to International Minerals & Chemical Corp. Manufacture of defluorinated phosphates. 3,142,534, 7–28–64, Cl. 23—108.

Nickerson, John D., to International Minerals & Chemical Corp. Manufacture of defluorinated phosphates. 3,151,937, 10–6–64, Cl. 23—108.

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Nickerson, Mortimer H., H. S. Schnitzer, J. E. Curtis, and G. D. Patterson, to DeBell & Richardson, Inc. Dielectric foams. 3,129,191, 4–14–64, Cl. 260—2.5.

Nickerson, Ralph F., to Shawinigan Resins Corp. Weftless paper tape. 3,126,312, 3–24–64, Cl. 161—144.

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Nickerson, Richard W. Safety pin with pin-connecting means. 3,136,014, 6–9–64, Cl. 24—161.

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Nickol, Henry A., and T. Z. White, to Ford Motor Co. Method of making a heat exchanger. 3,116,541, 1–7–64, Cl. 29—157.3.

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Niclas, Walter, H. Menel, and G. Johannes, to Continental Gummi-Werke Aktiengesellschaft. Tire building machine. 3,125,482, 3–17–64, Cl. 156—414.
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Nicolaro, Louis L., to Westinghouse Electric Corp. Wire support for a vitreous longitudinal rod in a fluorescent lamp. 3,145,320, 8–18–64, Cl. 313—286.
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Nicolaus, Bruno J. R., to Sandoz Ltd. Basic dyestuffs. 3,119,809, 1–28–64, Cl. 260—158.
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Nicolaux, Genevieve J. M., E. A. Gay, J. Matet, R. L. H. Mauge, C. M. J. Sandevoir, and A. J. A. Wasmer, to Societe Anonyme dite: A.E.C. Societe de Chimie Organique & Biologique. Process for the preparation of vitamin A type aldehydes. 3,145,233, 8–18–64, Cl. 260—598.
Nicolay, Heinz, and H. Gruener, to Graubremse G.m.b.H. Brake pressure governor for pneumatic brakes. 3,155,435, 11–3–64, Cl. 303—40.
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Nicoll, David, and M. E. Timin, to United States of America, Atomic Energy Commission. Transfer mechanism. 3,136,-432, 6–9–64, Cl. 214—28.
Nicoll, David, and J. L. Hedgecock, to United States of America, Atomic Energy Commission. Nuclear reactor fuel handling system. 3,137,397, 6–16–64, Cl. 214—18.
Nicosia, Joseph P., to The Budd Co. Gripping device for chuck jaws. 3,151,862, 10–6–64, Cl. 269—273.
Nider, Philip J. Drill. 3,116,654, 1–7–64, Cl. 77—67.
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Nieda, Yoriyuki. Hall effect dynamoelectric machine. 3,123,-725, 3–3–64, Cl. 310—2.
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Niederer, Otto C. and H. O. Egg supporting and handling means. 3,148,761, 9–15–64, Cl. 198—33.
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Niederhauser, Warren D., to Rohm & Haas Co. Aldehydes and method of preparation. 3,130,233, 4–21–64, Cl. 260—599.
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Nielsen, Axel L. Submersible motor sump pump. 3,134,333, 5–26–64, Cl. 103—87.
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Nielsen, Chester L., Jr., to Wesbor Stamping Corp. Mounting for car top carriers. 3,142,104, 7–28–64, Cl. 24—263.
Nielsen, Erik J., to Square D Co. Pressure wire terminal clamp with self-retained wire clamp. 3,141,722, 7–21–64, Cl. 339—246.
Nielsen, Erik R. Method of manufacture of furfuryl alcohol condensates. 3,158,592, 11–24–64, Cl. 260—88.5.
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Nomine, Gerard, and R. Bucourt, to Roussel-UCLAF. Esters of 5,11-dioxygenated-Δ^5-des-A-estrene-17β-ol; esters of 5-oxygenated-$\Delta^{9(11)}$-des-A-estrene-17β-ol; esters of 5-oxygenated-9α,11α-epoxy-des-A-estrane-17β-ol and process. 3,120,-544, 2–4–64, Cl. 260—340.9.

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Notes, Robert J. Attachment for mixers or the like. 3,141,-184, 7–21–64, Cl. 15—97.
Nothmann, Gerhard A., to Miehle-Goss-Dexter, Inc. Ductor roller timing mechanism. 3,147,704, 9–8–64, Cl. 101—350.
Nothum, William M., to Nopco Chemical Co. Pitch control in paper making with xylene sulfonic acid-formaldehyde condensates. 3,154,466, 10–27–64, Cl. 162—76.
Notifier Corp.: *See*—
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Notley, Norman T., to E. I. du Pont de Nemours and Co. Photopolymerizable compositions and elements. 3,149,975, 9–22–64, Cl. 96—115.
Notley, Norman T., to E. I. du Pont de Nemours and Co. Photopolymerizable elements. 3,157,505, 11–17–64, Cl. 96—68.
Nottingham, J. B., & Co., Inc.: *See*—
Marasco, Anthony D. 3,121,598.
Nottingham, Ralph K. Illuminating device. 3,119,565, 1–28–64, Cl. 240—10.
Nottorf, Robert W.: *See*—
Collinson, James A., and Nottorf. 3,129,096.
Nottorf, Robert W., to E. I. du Pont de Nemours and Co. Photographic emulions, elements and processes. 3,142,568, 7–28–64, Cl. 96—87.
Nourse, Jess H., and W. B. Crawford, to United States of America, Army. Modified cylindrical free drop container. 3,123,117, 3–3–64, Cl. 150—1.
Nourse, Jess H., and W. B. Crawford, to United States of America, Army. Modified toric free drop container. 3,129,-740, 4–21–64, Cl. 150—.5.
Nourse, Jess H., and W. B. Crawford, to United States of America, Army. Free drop container. 3,145,747, 8–25–64, Cl. 150—1.
Nourse, Norman C.: *See*—
Heidrich, Richard E. 3,157,070.
Nouvelet, Félix M. E. to G. Daude. Device for setting rivets in a wall which is accessible on one side only. 3,144,158, 8–11–64, Cl. 218—43.
Nova Products Corp.: *See*—
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Langbaum, Murray. 3,160,381.
Novak, Charles J.: *See*—
Decker, Raymond F., and Novak. 3,132,938.
Novak, George J.: *See*—
Lach, Walter, and Novak. 3,125,054.
No-Vak, Inc.: *See*—
King, Karl G., Sr. 3,146,012.
Novak, James F., to The Muter Co. Compound loudspeaker diaphragm. 3,153,463, 10–20–64, Cl. 181—32.
Novak, Joseph J. Lawn aerator. 3,123,391, 3–3–64, Cl. 294—50.7.
Novak, Leo J., to The Central Pharmacal Co. Oral pharmaceutical products prepared with carboxymethyl benzyl dextran having a low carboxymethyl D.S. of 0.15. 3,130,126, 4–21–64, Cl. 167—82.
Novak, Leo J., and W. M. Bolton, to Union Carbide Corp. Metallized paper and process for making same. 3,160,550, 12–8–64, Cl. 161—184.
Novak, Milton J. Underwater dredge with separating means. 3,161,438, 12–15–64, Cl. 299—9.
Novak, Stanley. Two-way poppet valve. 3,127,907, 4–7–64, Cl. 137—493.6.
Novak, Theodore F., to Danly Machine Specialties, Inc. Tensioning system for power press tie rods. 3,154,006, 10–27–64, Cl. 100—35.
Novak, Warren D., to General Precision, Inc. File card pack opening apparatus. 3,139,090, 6–30–64, Cl. 129—16.1.

Novak, Warren D., to General Precision, Inc. Angle control mechanism. 3,142,009, 7–21–64, Cl. 318—28.
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Novara, Caesar. Roller skate having resiliently mounted wheel trucks. 3,161,415, 12–15–64, Cl. 280—11.28.
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Held, Sidney P. 3,142,062.
Novelli, Frank G. Door-control mechanisms for hopper cars. 3,122,106, 2–25–64, Cl. 105—240.
Novello, Frederick C., to Merck & Co., Inc. Process of effecting diuresis with nitro disulfamylaniline compounds. 3,139,381, 6–30–64, Cl. 167—65.
Novello, Frederick C., to Merck & Co., Inc. Process for the preparation of 1,2,4-benzothiadiazine-1,1-dioxide derivatives. 3,160,629, 12–8–64, Cl. 260—243.
Noveske, Thomas J., to R. M. Stillman. Rotary cutoff device having a blade actuated by electromagnetic means. 3,151,514, 10–6–64, Cl. 83—354.
Novick, Abraham, to F. L. Smithe Machine Co., Inc. Rotary envelope machine. 3,116,668, 1–7–64, Cl. 93—62.
Novick, Abraham, to F. L. Smithe Machine Co., Inc. High speed rotary machines. 3,122,233, 2–25–64, Cl. 198—165.
Novick, Abraham, to F. L. Smithe Machine Co., Inc. Device for feeding envelope blanks. 3,141,667, 7–21–64, Cl. 271—74.
Novick, Abraham, to F. L. Smithe Machine Co., Inc. Envelope machine. 3,153,533, 10–20–64, Cl. 271—2.
Novick, Abraham, to F. L. Smithe Machine Co., Inc. High speed rotary machines. 3,160,081, 12–8–64, Cl. 93—62.
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Novkov, Raymond E. Adjustable chip breaker. 3,124,866, 3–17–64, Cl. 29—96.
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Koke, Walter S. 3,156,836.
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McRae, Duncan. 3,147,036.
Newburg, Charles F. 3,121,679.
Risse, Willis H., Tortorici, and Bennett. 3,160,487.
Spicer, John J., Jr. 3,126,230.
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Nowack, Arthur. Colored illuminated lawn sprinkler. 3,162,367, 12–22–64, Cl. 239—19.
Nowak, Kazimierz M. Reciprocating motor. 3,130,334, 4–21–64, Cl. 310—35.
Nowak, Welville B. Electronic cold and/or hot compress device. 3,132,688, 5–12–64, Cl. 165—25.
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Nowlin, Gene, and H. D. Lyons, to Phillips Petroleum Co. Catalyst for production of olefin polymers. 3,152,089, 10–6–64, Cl. 252—429.
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Shockley, William, and Noyce. 3,140,206.
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Noyce, Robert N., to Fairchild Camera and Instrument Corp. Semiconductor circuit complex having isolation means. 3,150,299, 9–22–64, Cl. 317—235.
Noye, Paul R., W. H. Devonshire, H. F. Parker, and C. N. Hubbell, to Columbus McKinnon Corp. Conveyor dispatch system. 3,126,837, 3–31–64, Cl. 104—88.
Noyes, Atherton, Jr., to Aircraft Radio Corp. Protection circuit for transistor power supply. 3,161,834, 12–15–64, Cl. 331—62.
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Noyes, Richard C., B. L. Hoffman, and M. L. Henkin, to North American Aviation, Inc. Thermionic power supply. 3,137,798, 6–16–64, Cl. 310—4.

Noyori, Gentaro, H. Okazaki, H. Kurokawa, and M. Honda, to The Noguchi Institute. Process for production of D,L-glutamic acid from α-ketoglutaric acid. 3,143,565, 8–4–64, Cl. 260—482.
Nozaki, Hitosi: *See*—
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Benson, Harold R. 3,158,943.
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Meeder, Raymond L., and Kus. 3,163,756.
Meeder, Raymond L., and Mielke. 3,126,484.
Mitchell, Thomas E., Neville, and Schrodt. 3,143,649.
Schrodt, Ariel G., and Shevick. 3,159,745.
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Di Ianni, Elmo J. 3,129,333.
Kleber, Eugene V., and Bobrowsky. 3,148,280.
Muir, Hubert M. 3,129,056.
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Nuclear Data, Inc.: *See*—
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Nuclear Materials and Equipment Corp.: *See*—
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Nuclear Products Co.: *See*—
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Lewis, Arthur R., and Nugent. 3,133,541.
Nugent, Ralph W., to E. I. du Pont de Nemours and Co. Tine for loom stop mechanism. 3,162,216, 12–22–64, Cl. 139—374.
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Rumbel, Keith E., Nugent, Scurlock, and Cohen. 3,116,692.
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Null, Robert A., to The Garrett Corp. Ambient pressure responsive fluid flow controlling mechanism. 3,122,318, 2–25–64, Cl. 236—87.
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Nunn, Joseph. Tracking and photographic apparatus. 3,121,605, 2–18–64, Cl. 346—107.
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Smallpeice, Cosby D. P. 3,129,784.
Nurse, Michael J. D., to Pye Ltd. Frame and line synchronizing signal separator using sinusoidal keying pulses. 3,157,742, 11–17–64, Cl. 178—69.5.
Nury, Fredoon S., to United States of America, Agriculture. Hydration of dried fruit. 3,139,345, 6–30–64, Cl. 99—104.
Nuss, Christopher, and T. A. Unckrich, to Chrysler Corp. Flow control device. 3,163,006, 12–29–64, Cl. 60—52.
Nussbaum, Edward M., to The Dow Chemical Co. Separation of amines from caustic and salt. 3,151,163, 9–29–64, Cl. 260—583.
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Nutting, Robert G., to United States of America, Army. Gas operated feeder for gun. 3,139,796, 7–7–64, Cl. 89—33.
Nutting, Robert M. Water vehicle. 3,139,055, 6–30–64, Cl. 114—16.
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Nuttle, Andrew C., to Gam Electronics, Inc. Electrical mounting for supporting an antenna and coupling circuit. 3,145,-384, 8–18–64, Cl. 343—749.
Nützel, Karl, and K. Lang, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of esters and carboxylates of alkyl boric acids. 3,133,951, 5–19–64, Cl. 260—462.
Nyberg, Carl E. J. Quick-release coupling for hoses and the like. 3,131,905, 5–5–64, Cl. 251—149.6.
Nyberg, Ernest W., and A. W. Virta, to Ancraft Products Co. Layout machine. 3,116,556, 1–7–64, Cl. 33—32.
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Nyc, Wladimir. Magnetically controlled toy vehicle. 3,121,-971, 2–25–64, Cl. 46—236.
Nyce, Jack L., to E. I. du Pont de Nemours and Co. Process for producing 5-alkylidene norbornene. 3,151,173, 9–29–64, Cl. 260—666.
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Nye, Maurice A., and J. C. Bittman, to The Vaughn Machinery Co. Apparatus and process for continuously heat treating wire and the like. 3,154,443, 10–27–64, Cl. 148—144.
Nye, Norman H. Building structure. 3,137,371, 6–16–64, Cl. 189—2.
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Nykl, Robert. Stereophonic reproduction method and apparatus. 3,162,810, 12–22–64, Cl. 325—36.
Nylander, Alfred F., to International Minerals & Chemical Corp. Treatment of alkali metal sulfates. 3,134,639, 5–26–64, Cl. 23—63.
Nylander, Alfred F., to International Minerals & Chemical Corp. Production of potassium bicarbonate. 3,158,440, 11–24–64, Cl. 23—64.
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Nyquist, Arthur S., and N. G. Britt, to American Cyanamid Co. Polyurethane foam compositions modified with partially alkylated polymethylolmelamines. 3,135,707, 6–2–64, Cl. 260—2.5.
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Obendorf, Werner H., to Osterreichische Stickstoffwerke Aktiengesellschaft. New iodine-containing benzoic acid esters. 3,144,479, 8–11–64, Cl. 260—471.

Obenland, Clayton O., to Olin Mathieson Chemical Corp. Method for the preparation of methylated decaboranes. 3,142,706, 7–28–64, Cl. 260—606.5.

Obenland, Clayton O., to Olin Mathieson Chemical Corp. Method for the preparation of ethylated decaboranes. 3,142,707, 7–28–64, Cl. 260—606.5.

Obenschain, Arthur W., and J. E. Nicholson, to United States of America, Navy. Test apparatus having a suspended permanent magnet for determining magnetic effects of materials. 3,153,191, 10–13–64, Cl. 324—34.

Obenshain, David N., to West Virginia Pulp and Paper Co. Change gear mechanism. 3,128,662, 4–14–64, Cl. 83—298.

Obenshain, David N., to West Virginia Pulp and Paper Co. Webcutting mechanism with forced air work and product transfer means. 3,143,016, 8–4–64, Cl. 83—98.

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Ober, Howard C. Shredder and chopper. 3,153,435, 10–20–64, Cl. 146—123.

Ober, Kenneth A., to Dunham-Bush, Inc. Refrigeration system and flexible coupling for concentric shafts. 3,157,129, 11–17–64, Cl. 103—87.

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O'Boyle, Charles J., to North American Sugar Industries Inc. Recovering solid polyhydric alcohols from transesterification reaction masses. 3,141,012, 7–14–64, Cl. 260—210.

O'Boyle, Charles J., to North American Sugar Industries Inc. Purification of transesterification mixtures. 3,141,013, 7–14–64, Cl. 260—210.

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O'Brien, Edward F., and J. C. Torbett, to M/T Mfg. & Supply Co., Inc. Coin depository for coin-operated devices. 3,127,097, 3–31–64, Cl. 232—44.

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O'Brien, John F., and E. A. Santos, to United States of America, Army. Torsion bar cartridge extractor. 3,161,978, 12–22–64, Cl. 42—25.

O'Brien, Joseph L., to Rohm & Haas Co. Aqueous dispersion of an aminoplast and an epoxy compound. 3,153,003, 10–13–64, Cl. 260—29.4.

O'Brien, Loren J., E. M. De Coursey, and L. W. Harry, Jr., to Dana Corp. Selective lockout hub. 3,124,377, 3–10–64, Cl. 287—53.

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O'Brien, William D., to Bell Telephone Laboratories, Inc. Adjustment of sealed reed contacts. 3,155,478, 11–3–64, Cl. 65—42.

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Siegart, William R., Odell, Toettcher, and Kay. 3,125,524.
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Mackay, Ralph S., Marg, and Oechsli. 3,150,521.
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Oehmig, Robert G. Adjustable door stop and weatherstrip. 3,142,098, 7–28–64, Cl. 20—69.
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O'Gorman, William F., to R & R Printing Corp. Combined letterhead and reply insert. 3,132,796, 5–12–64, Cl. 229—92.3.
O'Gorman, William F., to D. N. Garrette. Security system. 3,154,761, 10–27–64, Cl. 340—179.
O'Grady, Thomas P.: *See*—
Wolansky, John, and O'Grady. 3,134,228.
O'Hagan, Elwin C., to Interstate Sanitation Corp. Air odor control device. 3,129,888, 4–21–64, Cl. 239—55.
O'Halloran, Joseph P.: *See*—
Manly, Donald G., O'Halloran, and Rice. 3,163,652.
Ohan, William J., Jr.: *See*—
Baldwin, Robert R., Lowry, and Ohan. 3,149,977.
O'Hanlon, Dudley J., and P. C. De Graff, to Viking Mfg. Co. Conveyor apparatus. 3,154,189, 10–27–64, Cl. 198—91.
O'Hara, Masami, T. Tsuchiya, A. Kawamoto, T. Shiio, S. Motozaki, T. Tsunoda, and K. Kinoshita, to Ajinomoto Kabushiki Kaisha and Sanraku Shuzo Kabushiki Kaisha. Process for producing L-glutamic acid. 3,141,831, 7–21–64, Cl. 195—47.
Ohara, Masao, R. Haraoka, Y. Deguchi, K. Miura, and M. Ito, to Fijisawa Pharmaceutical Co., Ltd. Acylthio halogeno octanoic acid derivatives. 3,123,625, 3–3–64, Cl. 260—399.
Ohara, Masao, K. Yamamoto, T. Kamiya, K. Tanaka, A. Sugihara, and M. Ito, to Fujisawa Pharmaceutical Co., Ltd. Production of dithiofatty acid derivatives and intermediates thereof. 3,132,152, 5–5–64, Cl. 260—327.
Ohara, Naoyuki. Exposure-meter-coupled shutter. 3,117,-503, 1–14–64, Cl. 95—10.
Ohara, Naoyuki, to Kabushiki Kaisha Hattori Tokeiten. Lens shutter connecting mechanism between shutter speed and diaphragm aperture controls. 3,148,609, 9–15–64, Cl. 95—64.
Ohara, Naoyuki. Single-lens reflex camera. 3,158,075, 11–24–64, Cl. 95—42.
O'Hare, Donald J.: *See*—
Lyna, Donald W., O'Hare, and Walker. 3,161,961.
Oharenko, Vladimir. Safety work light. 3,136,489, 6–9–64, Cl. 240—11.4.
Oharenko, Vladimir. Safety inspection light. 3,140,054, 7–7–64, Cl. 240—2.18.
Ohashi, Kinjiro. Chuck for a machine tool. 3,142,491, 7–28–64, Cl. 279—4.
Ohde, Ryohei, and I. Yamane, to Kabushiki Kaisha Hitachi Seisakusho. Transportable X-ray apparatus utilizing an automotive storage battery as power source. 3,125,679, 3–17–64, Cl. 250—98.
Ohgren, Arne E., to Signode Steel Strapping Co. Clip tool. 3,133,288, 5–19–64, Cl. 1—187.
Ohime, Edward L., to Whirlpool Corp. Waste disposer. 3,151,815, 10–6–64, Cl. 214—186.
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Davis, Charles A. 3,131,558.
Eckels, George H. 3,146,853.
Eckels, George H. 3,163,398.
Eckels, George H., and Verrell. 3,146,893.
Evans, John B., and Wickline. 3,136,223.
Heath, Donald L. 3,162,831.
Linderholm, Sven O. Re. 25,644.
Linderholm, Sven O. 3,163,807.
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Miller, Charles J., Jr. 3,159,240.
Smothers, William J. 3,147,126.
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Domizi, Dante J. 3,122,624.
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Mucha, George M., and Ledl. 3,121,780.
Sommer, Richard A. 3,120,596.
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Looney, John T. 3,148,595.
Ohio State University Research Foundation, The: *See*—
Copeland, John R., Robertson, Walter, and Boehnker. 3,162,855.
Gray, William D. 3,151,038.
Omietanski, George M. 3,131,222.
Ohizumi, Kiposhi: *See*—
Matsui, Masanao, Saijo, Ohizumi, Nishida, and Okano. 3,143,664.
Ohki, Yoshitami, and S. Takashi, to Nippon Electric Co., Ltd. Sealed magnetically operable switch. 3,146,327, 8–25–64, Cl. 200—166.
Ohlgren, Harold A., and J. G. Lewis, to Nuclear Technical Services Corp. Gas purification. 3,141,739, 7–21–64, Cl. 23—209.
Ohlin, Bror E. G., to Transportpatent, AB. Driving means in a track system. 3,118,393, 1–21–64, Cl. 104—166.
Ohlsen, Frederick L. and V. J. Tire bead breaker. 3,160,196, 12–8–64, Cl. 157—1.17.
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Ohlsen, Frederick L. and V. J. 3,160,196.
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Ohlson, John L.: *See*—
Findley, Thomas W., Ohlson, and Kuester. 3,155,696.
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Rice, Henry T. M. 3,134,376.
Rice, Henry T. M. 3,147,638.
Rice, Henry T. M. 3,151,627.
Ohlund, John A. I., K. R. Andersson, and G. A. Wallgard, to Svenska Aeroplan Aktiebolaget. Signaling device for scoring gunnery target practice. 3,158,372, 11–24–64, Cl. 273—102.2.
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Lonn, Erik I., and Ohlund. 3,122,675.
Ohm, Edward A., to Bell Telephone Laboratories, Inc. Communication station employing steerable antenna array. 3,151,326, 9–29–64, Cl. 343—100.
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Ohmart, Philip E. 3,152,254.
Ohmart, Philip E., to The Ohmart Corp. Method and apparatus for converting ionic energy into electrical energy. 3,152,254, 10–6–64, Cl. 250—83.6.
Ohme, Joachim H., to Western Electric Co., Inc. Press operated tapping apparatus. 3,162,873, 12–29–64, Cl. 10—129.
Ohmite Mfg. Co.: *See*—
Newhouse, Leo, and Pogoff. 3,127,582.
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Ohnacker, Gerhard, to Dr. Karl Thomae G.m.b.H. α-enolacylates of β-acyl-γ-phenyl-α-tetronic acids. 3,121,095, 2–11–64, Cl. 260—343.6.
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Ohno, Yasuji: *See*—
Osugi, Tetsuro, Matsumoto, Tanabe, and Ohno. 3,137,-540.
Ohno, Yasuji, and K. Tanabe, ¾ to Kurashiki Rayon Co., Ltd., and ¼ to Air Reduction Co. Inc. Production of polyvinyl alcohol bodies having improved dyeability. 3,121,607, 2–18–64, Cl. 8—115.5.
Ohnsman, Everett H. Line handling device. 3,146,754, 9–1–64, Cl. 114—199.
Ohnstad, Burl B., to American Pipe and Construction Co. Foam gasket joint for concrete pipe and method of making same. 3,147,014, 9–1–64, Cl. 277—189.
Ohntrup, Frederick F.: *See*—
Benn, Robert E., and Ohntrup. 3,122,680.
Oho, Arvo O., and D. R. Atherton, to Logan Co. Hand rail for stairways. 3,161,425, 12–15–64, Cl. 287—54.
O'Hollaren, Paul F. Method for alleviating the withdrawal symptoms of drug addicts. 3,158,540, 11–24–64, Cl. 167—67.
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Wallin, Sven W., and Oholm. 3,158,448.
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Ohrnberger, Robert, to Vereinigte Werkzeugmaschinenfabriken Aktiengesellschaft. Injection molding machine. 3,153,814, 10–27–64, Cl. 18—30.
Ohsé, Georg: *See*—
Lödige, Wilhelm and F., Lucke, and Ohsé. 3,162,428.
Ohsol, Ernest O., and G. N. Gleysteen, to Pittsburgh Chemical Co. Upgrading coal tar. 3,147,205, 9–1–64, Cl. 208—45.
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Akita, Tadayoshi, Ohta, and Ito. 3,120,352.
Akita, Tadayoshi, Ohta, and Ito. 3,155,322.
Ohta, Tsunetaro. Check valves. 3,134,394, 5–26–64, Cl. 137—220.
Oickle, Charles, Jr., and E. A. Pinsley, to United Aircraft Corp. A.C. nuclear generator. 3,140,411, 7–7–64, Cl. 310—11.
Oikawa, Mitsuru, to Kabushiki Kaisha Hitachi Seisakusho. Solid state light amplifying device with sintered photoconductor. 3,158,747, 11–24–64, Cl. 250—213.
Oikawa, Mitsuru, T. Okabe, E. Maruyama, and M. Sugawara, to Kaubshiki Kaisha Hitachi Seisakusho. Production of semiconductor materials. 3,133,888, 5–19–64, Cl. 252—501.
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Oil Equipment Mfg. Co., Inc.: *See*—
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Douglas, James K. Re. 25,524.
Douglas, James K. 3,122,064.
La Borde, Russell G. 3,131,605.
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Shinada, Toshio, and Oinuma. 3,131,320.
Oishei, John R., to Trico Products Corp. Windshield washer. 3,158,293, 11–24–64, Cl. 222—180.
Oishei, John R., and A. C. Scinta, to Trico Products Corp. Windshield wiper. 3,116,510, 1–7–64, Cl. 15—250.42.
Oishei, John R., R. A. Deibel, and M. Bitzer, to Trico Products Corp. Windshield wiper system. 3,117,335, 1–14–64, Cl. 15—250.12.
Oishei, John R., and M. Bitzer, to Trico Products Corp. Windshield cleaning system. 3,147,504, 9–8–64, Cl. 15—250.02.
Oishei, John R., and M. Bitzer. Windshield cleaner. 3,155,-999, 11–10–64, Cl. 15—250.2.
Ojelid, Göran A. R., to Husqvarna Vapenfabriks Aktiebolag. Apparatus for dielectric heating. 3,129,312, 4–14–64, Cl. 219—10.55.
Ojima, Tsuneo. Water-tight wrist-watch cases. 3,152,438, 10–13–64, Cl. 58—90.
Okabe, Sashichi: *See*—
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Okada, Hiroshi, K. Takinami, Y. Hirose, T. Tsunoda, and K. Kono, to Ajinomoto Co., Inc., and Sanraku Distillers Co., Inc. Manufacture of glutamic acid by fermentation. 3,138,540, 6–23–64, Cl. 195—47.
Okada, Kenji: *See*—
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Tsuda, Kyosuke, Nozoe and Okada. 3,129,234.
Okamoto, Yukio. Collapsible lamp shade. 3,142,446, 7–28–64, Cl. 240—108.
Okamura, Kenji, T. Mumata, and T. Matsumura, to Mitsubishi Nippon Jukogyo Kabushiki-Kaisha. Crankshaft for 60° W-type twenty-four cylinder engine. 3,161,079, 12–15–64, Cl. 74—603.
Okamura, Osamu, to Asahi Kasei Kogyo Kabushiki Kaisha. Funnel for stretch-spinning cuprammonium staple fiber. 3,131,429, 5–5–64, Cl. 18—8.
Okamura, Shiro. Magnetic recording and reproducing system for periodical signals. 3,134,853, 5–26–64, Cl. 178—6.6.
Okamura, Shiro. Standards conversion for television signals. 3,157,738, 11–17–64, Cl. 178—6.6.
Okamura, Shiro. Signal recording and reproducing system. 3,157,739, 11–17–64, Cl. 178—6.6.
Okanishi, Masanori: *See*—
Kawaguchi, Hiroshi, Koshiyama, and Okanishi. 3,159,-540.
Kawaguchi, Hiroshi, Okanishi, Miyaki, Ohmori, Matsuzaki, Koshiyama, and Tsukiura. 3,142,671.
Okaniwa, Keiji, to Yawata Iron and Steel Co., Ltd., and Yokoyama Engineering Co., Ltd. Apparatus for recovering waste gas from oxygen top blowing converter in unburned state. 3,134,835, 5–26–64, Cl. 266—35.
Okaniwa, Keiji, I. Takatama, S. Maehara, and I. Igarashi, to Yawata Iron & Steel Co., Ltd. and Yokoyama Engineering Co., Ltd. Method for recovering waste gas from oxygen top blowing converter in unburned state. 3,118,759, 1–21–64, Cl. 75—60.
Okaniwa, Keiji, I. Takatama, S. Maehara, and I. Igarashi, to Yawata Iron & Steel Co., Ltd., and Yokoyama Engineering Co., Ltd. Apparatus for selective recovery of waste gas from oxygen top blowing converter. 3,143,142, 8–4–64, Cl. 137—628.
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Matsui, Masanao, Saijo, Ohizumi, Nishida, and Okano. 3,143,664.
Okawaki, William N., and H. Schmunk. Depth gaging means for a V-shaped row crop ditcher. 3,123,155, 3–3–64, Cl. 172—722.
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Okazaki, Yasukichi, to Janome Sewing Machine Co., Ltd. Bobbin winding change-over mechanism in sewing machine. 3,123,034, 3–3–64, Cl. 112—220.
Okcuoglu, Selahattin A., and G. A. Walker, to International Business Machines Corp. Wear compensator with clamping device. 3,133,620, 5–19–64, Cl. 197—16.
O'Keefe, Michael F., and R. S. Stull, to AMP Inc. Coaxial cable connecting device. 3,160,456, 12–8–64, Cl. 339—92.
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Okenberg, Harry, J. L. Russell, and M. Becker, to Halcon International, Inc. Preparation of fumaric acid by catalytically isomerizing maleic acid produced by the oxidation of butene-2. 3,141,037, 7–14–64, Cl. 260—533.
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Okie, F. G., Inc.: *See*—
Kane, John R. 3,159,546.
Okonite Co., The: *See*—
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Oksland, Johannes. Draught-excluding devices for doors. 3,118,193, 1–21–64, Cl. 20—67.
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Oku, Hachiro, and T. Nakanishi, to Sankyo Co. Ltd. Substance possessing antimicrobial activity and disease control activity on some plant diseases and the method for its production. 3,156,618, 11–10–64, Cl. 167—65.
Okuda, Jiro, to Nippon Electric Co. Ltd. Logical N out of M code check circuit. 3,155,841, 11–3–64, Cl. 307—88.5.
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Okumura, Shinji, R. Tsugawa, T. Tsunoda, S. Motozaki, T. Suyama, and S. Kanao, to Ajinomoto Co., Inc. Preparation of L-glutamic acid by fermentation. 3,123,536, 3–3–64, Cl. 195—29.
Okumura, Shinji, R. Tsugawa, T. Tsunoda, and K. Kono, to Ajinomoto Co., Inc., and Sanraku Distillers Co., Inc. Process for producing L-glutamic acid. 3,136,702, 6–9–64, Cl. 195—47.
Okuno Chemical Industry Co.: *See*—
Tomono, Rihei. 3,159,509.
Okuno, Tsutomu. Nail clipper with receiver for clippings. 3,154,850, 11–3–64, Cl. 30—28.
Okunuki, Kazuo, B. Hagihara, M. Shin, and I. Sekuzu, to Sankyo Co., Ltd. Process for the preparation of codehydrogenase I (diphosphopyridine nucleotide) of high purity from yeast. 3,140,281, 7–7–64, Cl. 260—211.5.
Okura, Masahiko. Cushion seat. 3,151,344, 10–6–64, Cl. 5—351.
Okuyama, Hiroshi. Feeding bottle capable of indicating temperature of therein contained milk for the unweaned child. 3,125,984, 3–24–64, Cl. 116—114.
Olah, George A. Propellant compositions. 3,141,295, 7–21–64, Cl. 60—35.4.
Olah, George A., to The Dow Chemical Co. Friedel-crafts ketone synthesis. 3,145,216, 8–18–64, Cl. 260—332.3.
Olah, George A., and S. J. Kuhn, to The Dow Chemical Co. Process for making nitroaromatic nitriles. 3,162,675, 12–22–64, Cl. 260—465.
Olander, Kemuel B.: *See*—
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Olander, Roland J., to W. H. Miner, Inc. Car door fastener latch plate. 3,151,898. 10–6–64, Cl. 292—1.
Olashaw, William F., to General Electric Co. Electrical control panel structure. 3,142,003, 7–21–64, Cl. 317—120.
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Hart, Thomas G., and Olbrych. 3,121,153.
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Olbrych, John E., and S. Kagan, to United States of America, Navy. Input signal controlled regenerative frequency dividers. 3,140,447, 7–7–64, Cl. 328—15.
Oldberg, Sidney, and J. H. Murray, and A. L. Sponhauer, to Eaton Mfg. Co. Mechanical lash adjuster. 3,118,322, 1–21–64, Cl. 74—586.
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Olden, Roger G., to Radio Corp. of America. Apparatus for developing electrostatic image. 3,124,482, 3–10–64, Cl. 118—637.
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Oldenburg, Charles C., to California Research Corp. Phenol color reduction. 3,150,191, 9–22–64, Cl. 260—621.127—63.
Oldenburg, Kenneth F., M. V. Scozzafava, R. S. Mark, and B. F. Kuhne, to Addmaster Corp. Accumulator controls for calculating machine. 3,136,482, 6–9–64, Cl. 235—60.
Oldenburg, Kenneth F., and D. Fazio, to Addmaster Corp. Housing for business machine. 3,147,943, 9–8–64, Cl. 248—2.
Oldenburg, Kenneth F., M. V. Scozzafava, R. S. Mark, and B. F. Kuhne, to Clary Corp. Symbol member positioning means for calculating machine. 3,159,338, 12–1–64, Cl. 235—60.18.
Oldenburger, Rufus, to Curtiss-Wright Corp. Hydraulic governors. 3,148,501, 9–15–64, Cl. 60—10.5.
Oldenburger, Rufus, to Woodward Governor Co. Automatic control system. 3,163,813, 12–29–64, Cl. 318—448.
Oldfield, Thomas A., to Rolls-Royce Ltd. Gas turbine by-pass engine. 3,150,484, 9–29–64, Cl. 60—35.6.
Oldfield, Thomas A., and M. I. Taylor, to Rolls-Royce Ltd. Jet propulsion engine. 3,130,543, 4–28–64, Cl. 60—35.54.
Oldfield, Thomas A., and R. R. Carr, to The Plessey Co. Ltd. Self-locking pneumatic actuators. 3,141,382, 7–21–64, Cl. 91—44.
Oldham, Herman J., to Thiokol Chemical Corp. Multilevel solid propellant rocket motor. 3,128,600, 4–14–64, Cl. 60—35.6.
Oldham, Thomas J. F., to Associated Electrical Industries Ltd. Control systems for load-conveying installations. 3,157,296, 11–17–64, Cl. 214—16.4.
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Habeshaw, John, and Oldham. 3,146,278.
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Olding, Thomas H., to Hupp Corp. Clothes washing machine with bleaching agent dispenser. 3,118,297, 1–21–64, Cl. 68—207.
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Feick, George, III, and Olds. 3,163,705.
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O'Leary, Charles D. Ground anchor upsetting and retrieving device. 3,161,432, 12–15–64, Cl. 294—106.
O'Leary, Paul C., to Ingersoll-Rand Co. Drilling apparatus. 3,141,511, 7–21–64, Cl. 173—43.
O'Leary, William J., and E. A. Fisher, to United States of America, Atomic Energy Commission. Process of making shaped fuel for nuclear reactors. 3,121,128, 2–11–64, Cl. 264—21.
O'Leary, William J., and E. A. Fisher, to United States of America, Atomic Energy Commission. Method of sintering ceramic shapes. 3,157,718, 11–17–64, Cl. 264—57.
Oleck, Stephen M., and S. J. Wantuck, to Socony Mobil Oil Co., Inc. Rejuvenation of spent supported platinum catalyst. 3,140,264, 7–7–64, Cl. 252—412.
Olenberg, Harry: *See*—
Lidov, Rex E., and Olenberg. 3,117,991.
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McWethy, Irvin E., and Oles. 3,142,731.
Olesen, Hermina: *See*—
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Olesen, Immanuel J., deceased (by H. Olesen, executrix), to Malodan A/S. Wire rope clamps. 3,158,915, 12–1–64, Cl. 24—124.
Oleskow, Mathew. Control valve for water softeners. 3,136,331, 6–9–64, Cl. 137—391.
Oleson, Adolph P.: *See*—
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Oleson, Kenneth H. Power chisel. 3,157,947, 11–24–64, Cl. 30—273.
Oleson, William M. Character generator. 3,162,725, 12–22–64, Cl. 178—79.
Olexson, Andrew S. Combination reamer and pipe deburrer. 3,138,044, 6–23–64, Cl. 77—73.
Olga Co.: *See*—
Erteszek, Olga. 3,142,300.
Erteszek, Olga. 3,162,197.
Olin, John F., to Monsanto Chemical Co. Dealkylation of nuclear polyalkyl primary aromatic amines. 3,123,644, 3–3–64, Cl. 260—578.
Olin, John F., to Pennsalt Chemicals Corp. Reaction products of alkylene dihalides and dithiocarbamates. 3,139,439, 6–30–64, Cl. 260—327.
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Adams, Richard F. Re. 25,619.
Adams, Richard F. 3,140,532.
Ager, John W., Jr. 3,121,097.
Ager, John W., Jr. 3,133,090.
Ager, John W., Jr. 3,135,580.
Ager, John W., Jr. 3,137,733.
Ager, John W., Jr. 3,158,654.
Ager, John W., Jr., Clark, and Heying. 3,146,260.
Ager, John W., Jr., and Heying. 3,133,970.
Ager, John W., Jr., and Heying. 3,135,786.
Ager, John W., Jr., and Heying. 3,148,219.
Ager, John W., Jr., and Heying. 3,153,056.
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Openshaw, Harry T., and N. Whittaker, to Burroughs Wellcome & Co. (U.S.A.) Inc. Resolution of racemic 3-ethyl-1, 2,3,4,6,7-hexahydro-9,10-dimethoxy-2-oxo-11β-benzo (a) quinolizine. 3,150,141, 9–22–64, Cl. 260—289.

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Ormsby, Thomas F. Flexible hose pump with resiliently pressed rollers. 3,122,103, 2–25–64, Cl. 103—149.
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Orndorff, Arthur R. Draftsman's template. 3,119,188, 1–28–64, Cl. 33—174.
Örnehage, Curt I., to Lidkopings Mekaniska Verkstads Aktiebolag. Truing and feeding method and apparatus for grinding machines. 3,155,086, 11–3–64, Cl. 125—11.
Orner, Allan, to Electronic Specialty Co. Electromagnetic coaxial switch. 3,131,268, 4–28–64, Cl. 200—104.
Orner, George M., to Manlabs, Inc. Fatigue cracking test apparatus. 3,138,016, 6–23–64, Cl. 73—91.
Orner, George M., to Mfg. Laboratories, Inc. Impact test machine. 3,157,046, 11–17–64, Cl. 73—101.
Orner, Harry. Spring mechanism. 3,152,797, 10–13–64, Cl. 267—1.
Ornitz, Martin N., and E. T. Betzig, to Blaw-Knox Co. Heat treating trays. 3,124,339, 3–10–64, Cl. 363—47.
Oroshnik, Jesse, to General Telephone and Electronics Laboratories, Inc. Method of making tunnel diodes. 3,160,534, 12–8–64, Cl. 148—177.
Orozco, Gilbert J., to Litton Industries, Inc. Limit stop for multiturn potentiometers and the like. 3,121,210, 2–11–64, Cl. 338—149.
Orozco, Hector M. Type of cartridge for fire weapons. 3,139,827, 7–7–64, Cl. 102—38.
Orr, Clifford M., to Chicago Bridge & Iron Co. Vacuum vessel. 3,154,138, 10–27–64, Cl. 165—75.
Orr, Dale T. Measurer and funnel. 3,132,768, 5–12–64, Cl. 222—50.
Orr, Dale T. Bottle carrier. 3,144,269, 8–11–64, Cl. 294—87.28.
Orr, Edgar K.: *See*—
Kehrer, Charles M., Sigardson, and Poe. 3,134,428.
Walker, Daniel W. 3,130,775.
Orr, Harold W., to Phillips Petroleum Co. Monitor for control of liquid foaming. 3,151,061, 9–29–64, Cl. 208—328.
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Bowers, Albert, Edwards, and Orr. 3,144,447.
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Goddard, John A., and Orr. 3,116,622.
Orr, James C., to Syntex Corp. Derivatives of 2-formyl-2-androstenes and pregnenes. 3,148,186, 9–8–64, Cl. 260—239.55.
Orr, James P., to The Ryan Aeronautical Co. High energy tube forming means. 3,120,259, 2–4–64, Cl. 153—79.
Orr, Jeffrey, Jr., and J. J. Shankland; said Orr assor. to said Shankland. Silage distributor. 3,151,720, 10–6–64, Cl. 193—3.
Orr, John B. Cap seal. 3,122,256, 2–25–64, Cl. 215—43.
Orr, Porter B., Jr., to United States of America, Atomic Energy Commission. Method for purification of promethium-147. 3,161,463, 12–15–64, Cl. 23—14.5.
Orr, Robert J., to Polymer Corp. Ltd. Polymerization process and product. 3,137,681, 6–16–64, Cl. 260—82.1.
Orr, Theodore A., Jr. Portable collapsible grill. 3,149,623, 9–22–64, Cl. 126—9.
Orr, William J.: *See*—
Bailey, Charles S., and Orr. 3,157,357.
Orr, William R., to Shell Oil Co. Method for determining directional inductive anisotropy of materials by measuring Q factor. 3,151,292, 9–29–64, Cl. 324—13.
Orr, Willis P., to Jersey Production Research Co. Well pump. 3,123,007, 3–3–64, Cl. 103—45.
Orr, Willis P., to Jersey Production Research Co. Cementing well pipe in stages. 3,130,783, 4–28–64, Cl. 166—26.
Orshansky, Elias, Jr., ½ to R. E. Hatch. Hydraulic motor or pump. 3,131,604, 5–5–64, Cl. 1—180.
Orshansky, Elias, Jr., ½ to R. E. Hatch. Hydraulic motor. 3,142,229, 7–28–64, Cl. 91—188.
Orsini, Anthony, to Specialties Development Corp. Lubricating and cooling system. 3,135,353, 6–2–64, Cl. 184—6.

Orsini, Rene, to Ethicon, Inc. Plastic articles. 3,153,481, 10–20–64, Cl. 206—59.
Orsini, René, to Plastus S.A., Societe Anonyme. Machines for the extrusion of casings, conduits or shaped sectional members of reinforced material. 3,159,877, 12–8–64, Cl. 18—13.
Orsino, Joseph A., and C. E. Mandel, to National Lead Co. Battery separators of cellulosic particles encased in a shell of polyethylene and method of forming same. 3,121,-658, 2–18–64, Cl. 162—146.
Orsino, Joseph A., D. F. Herman, and J. J. Brancato, to National Lead Co. Process of coating cellulosic particles by polymerizing a 1-olefin onto said particles; process of removing the cellulosic particles from the coated particles and hollow shell obtained therefrom. 3,121,698, 2–18–64, Cl. 260—2.5.
Orsino, Joseph A., and E. J. Dunn, Jr., to National Lead Co. Metal protective pigment. 3,151,999, 10–6–64, Cl. 106—297.
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Lafon, Louis. 3,137,621.
Lafon, Victor. 3,150,043.
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Ort, Lewis J. 3,161,523.
Ort, Lewis J., to Ort Brothers Bakery, Inc. Method of preparing an incompletely cooked sliced loaf of bread. 3,161,-523, 12–15–64, Cl. 99—90.
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Ortegren, Herman A., to Federal-Mogul-Bower Bearings, Inc. Method of making a bearing. 3,138,849, 6–30–64, Cl. 29—148.4.
Ortegren, Herman A., to Federal-Mogul-Bower Bearings, Inc. Retainer ring and roller bearing assembly. 3,144,284, 8–11–64, Cl. 308—217.
Ortet, Pierre, and R. Marcillaud, to Compagnie des Freins et Signaux Westinghouse. Apparatus for effecting engagement of a tool with a work piece during each work stroke and for automatically disengaging the tool during each return. 3,146,648, 9–1–64, Cl. 82—24.
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Orth, Hans, and H. Wenz, to G. M. Pfaff, AG. Adjusting means for a differential feed. 3,160,127, 12–8–64, Cl. 112—209.
Orthner, Ludwig, M. Reuter, F. Landauer, E. Junghanns, and E. Schmidt, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Brüning. Mixture of a sulfochlorinated alpha-olefin polymer and a sulfochlorinated hydrocarbon. 3,131,159, 4–28–64, Cl. 260—30.8.
Ortho Pharmaceutical Corp.: *See*—
Karmas, George. 3,151,121.
Karmas, George. 3,156,699.
Scheer, Irving. 3,162,629.
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Orthodontists' Research & Mfg. Corp.: *See*—
Miller, Frank R., and Lang. 3,119,182.
Orthostance (Proprietary) Ltd.: *See*—
Coplans, Carl W. 3,133,544.
Orthuber, Richard K., and C. V. Stanley, to International Telephone & Telegraph Corp. Apparatus and method for detecting overheated journal boxes. Re. 25,598, 6–16–64, Cl. 246—169.
Orthuber, Richard K., F. F. Hall, and H. Emus, to International Telephone and Telegraph Corp. Radiation source search system using an oscillating filter. 3,144,562, 8–11–64, Cl. 250—235.
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Ortiz, John, to Safety First Products Corp. Apparatus for uniformly mixing and distributing dry powder fire extinguishing chemicals. 3,144,276, 8–11–64, Cl. 302—64.
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Gallus, Julius P., Ortloff, and Willman. 3,158,209.
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Allen, Thomas O., Ortloff, and Willman. 3,163,218.
Bridwell, Harold C., and Ortloff. 3,120,286.
Ortloff, John E., to Jersey Production Research Co. Borehole casing. 3,126,959, 3–31–64, Cl. 166—33.
Ortmans, Emile. Spinning apparatus. 3,150,480, 9–29–64, Cl. 57—98.
Orton, Dennis G.: *See*—
Hemingway, Elizabeth J., Lee, Orton, and Wragg. 3,133,-066.
Ortt, Hugh R.: *See*—
Joukainen, Arnold S., and Ortt. 3,145,420.
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Orwin, Robert J., and J. D. Uhler, to The Hallicrafter Co. Common oscillator transceiver with independent receiver tone control means. 3,153,194, 10–13–64, Cl. 325—20.
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Osame, Gohei, 11/27 to S. Osame, 8/27 to N. Oda, and 8/27 to T. Osame. Electrostatic coating method and apparatus. 3,144,350, 8–11–64, Cl. 117—93.4.
Osame, Shizue: *See*—
Osame, Gohei. 3,144,350.
Osame, Taiji: *See*—
Osame, Gohei. 3,144,350.
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Mihara, Hajime, Miwa, Ueno, and Osawa. 3,142,696.
Osban, William R., to American Cyanamid Co. Tow crimper closure. 3,152,379, 10–13–64, Cl. 28—1.
Osban, William R. Tow treatment. 3,158,880, 12–1–64, Cl. 8—151.
Osban, William R., to American Cyanamid Co. Apparatus for tow treatment. 3,159,017, 12–1–64, Cl. 68—43.
Osban, William R., and A. J. Carman, to American Cyanamid Co. Method for the fluid treatment of strands of elongated material. 3,118,154, 1–21–64, Cl. 8—149.1.
Osborg, Hans, D. Horvitz, and A. H. Pope. High energy fuels. 3,133,845, 5–19–64, Cl. 149—109.
Osborn Engineering Corp.: *See*—
Osborn, Ralph C., and Meyer. 3,138,153.
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Dupre, Henry P., and Osborn. 3,129,050.
Osborn, Howard B., E. Giles, R. E. Preen, and F. C. D. Streeter, to The Thrissell Engineering Co. Ltd. Letter-sorting machine. 3,127,030, 3–31–64, Cl. 214—11.
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Charvat, Vernon K. 3,124,823.
Charvat, Vernon K. 3,129,269.
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Charvat, Vernon K. 3,147,503.
Miller, Leon F. 3,120,671.
Miller, Leon F., and Ellms. 3,156,958.
Nelson, Brooks E. 3,134,123.
Nelson, Brooks E. 3,142,080.
Nelson, Brooks E., and Gray. 3,139,642.
Peterson, Ruben O. 3,122,766.
Osborn, Norton J., and R. W. Tabbert, to The A P Parts Corp. Clamp for tubing. 3,137,053, 6–16–64, Cl. 24—277.
Osborn, Paul V., Jr., to National Distillers and Chemical Corp. Slit seal and multiple tube gusseter. 3,156,010, 11–10–64, Cl. 18—14.
Osborn, Peter E., to Automatic Electric Laboratories, Inc. Electronic switching system. 3,160,712, 12–8–64, Cl. 179—18.
Osborn, Ralph C., and C. P. Meyer, Jr., to Osborn Engineering Corp. Hydrotherapy apparatus. 3,138,153, 6–23–64, Cl. 128—66.
Osborn, Robert O., to E. I. du Pont de Nemours and Co. Method and apparatus for producing regenerated cellulose film. 3,121,761, 2–18–64, Cl. 264—95.
Osborn, Robert O., to E. I. du Pont de Nemours and Co. Treating fluorocarbon polymer film with boron trifluoride and oxygen. 3,122,445, 2–25–64, Cl. 117—47.
Osborn, William M. Battery cable connector. 3,152,854, 10–13–64, Cl. 339—237.
Osborne, Alan P., and R. M. Broughton, to Dunlop Rubber Co. Ltd. Bonding of thermoplastic materials. 3,132,983, 5–12–64, Cl. 156—308.
Osborne Associates: *See*—
Boykin, Robert O., Sr., and Osborne. 3,152,093.
Osborne, Philip S. 3,146,768.
Osborne, Charles E.: *See*—
Hawkins, Gary F., and Osborne. 3,120,995.
Osborne Electronic Corp.: *See*—
Roberts, Marion L. 3,162,799.
Osborne, Eugene F., G. S. Axelby, and E. L. Smith, Jr., to United States of America, Army. Distortion compensation system, for a power frequency amplifier system having transport lags, utilizing heterodyne feedback. 3,141,134, 7–14–64, Cl. 325—159.
Osborne, Fay H.: *See*—
Bodendorf, Warren J., and Osborne. 3,149,023.
Osborne, Fay H., and W. J. Bodendorf, to C. H. Dexter & Sons, Inc. Methods of making tobacco web material. 3,145,717, 8–25–64, Cl. 131—140.
Osborne, Fred H., and H. M. Thomas, to The Wurlitzer Co. Tape playing machine. 3,127,178, 3–31–64, Cl. 274—11.
Osborne, Fred H., and H. M. Thomas, to The Wurlitzer Co. Tape playing machine. 3,127,179, 3–31–64, Cl. 274—11.
Osborne, Fred H., and J. H. Riggs, to The Wurlitzer Co. Coin controlled phonograph. 3,131,800, 5–5–64, Cl. 194—1.
Osborne, George T., to Sperry Rand Corp. Asynchronous binary counter register stage with flip-flop and gate utilizing plurality of interconnected NOR circuits. 3,139,540, 6–30–64, Cl. 307—88.5.
Osborne, Harold C. Razor honing device. 3,142,943, 8–4–64, Cl. 51—158.
Osborne, John B., to Pullman Inc. Method and means for cracking hydrocarbons. 3,152,064, 10–6–64, Cl. 208—78.
Osborne, LeRoy M., to Harvestore Products, Inc. Breather system and roof for sealed storage structure. 3,122,985, 3–3–64, Cl. 99—235.
Osborne, Philip S.: *See*—
Boykin, Robert O., Sr., and Osborne. 3,152,093.
Osborne, Philip S., to Osborne Associates. Preinduction means and method for treating a fuel air mixture for reduction of nitrous oxides. 3,146,768, 9–1–64, Cl. 123—119.

Osborne, Robert F.: *See*—
Eichorn, Roger H., and Osborne. 3,152,757.

Osborne, Robert J., to American Machine & Foundry Co. Tobacco sheet manufacture. 3,125,098, 3–17–64, Cl. 131—17.

Osborne, Wiley W. Vacuum sealing means. 3,135,411, 6–2–64, Cl. 215—60.

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Osburn, Carl L. Jr., and R. E. Hayward, Jr., to Phillips Petroleum Co. Control system for utilization of variable flow fuel. 3,159,345, 12–1–64, Cl. 236—26.

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Oscoz Sanchez, Pascual J. M. Folding table. 3,124,085, 3–10–64, Cl. 108—115.

Osdene, Thomas S., to American Home Products Corp. 2-aryl - 4,7 - diamino - N - (aminoalkyl)-6-pteridinecarboxamides. 3,122,540, 2–25–64, Cl. 260—247.2.

Osdene, Thomas S., to American Home Products Corp. N-(alkoxyalkyl) - 4,7 - diamino - 2 - aryl-6-pteridinecarboxamides. 3,122,543, 2–25–64, Cl. 260—251.5.

Osdene, Thomas S., to American Home Products Corp. N,N'-ethylenebis(4,7-diamino - 2 - aryl-6-pteridinecarboxamides). 3,122,545, 2–25–64, Cl. 260—251.5.

Osdene, Thomas S., to American Home Products Corp. 4,7-diamino-2-(substituted) - N - substituted-6-pteridinecarboxamides. 3,122,546, 2–25–64, Cl. 260—251.5.

Osdene, Thomas S., to American Home Products Corp. 2,4,7-triamino-6-(2-benzimidazolyl)pteridine. 3,133,923, 5–19–64, Cl. 260—251.

Osdene, Thomas S., to American Home Products Corp. 6-benzoquinoxaline-carboxamides. 3,145,205, 8–18–64, Cl. 260—247.2.

Osdene, Thomas S., and A. A. Santilli, to American Home Products Corp. 4-amino-2-aryl-6H-indeno(2,3-α)pteridin-6-ones. 3,122,544, 2–25–64, Cl. 260—251.5.

Osdene, Thomas S., and A. A. Santilli, to American Home Products Corp. 2,4,7-triamino-6-pteridine carboxamides. 3,122,547, 2–25–64, Cl. 260—251.5.

Osdene, Thomas S., and A. A. Santilli, to American Home Products Corp. 4-amino-8,9-dihydro-2-arylbenzo(g)pteridin-6(H)-ones. 3,134,776, 5–26–64, Cl. 260—251.5.

Osdene, Thomas S., and A. A. Santilli, to American Home Products Corp. 2-aryl,4,7 - diamino-pteridine - 6 - carboxamides. 3,138,592, 6–23–64, Cl. 260—247.5.

Osdene, Thomas S., and A. A. Santilli, to American Home Products Corp. 4,7-diamino-N-(2,2-dialkoxyethyl)-2-aryl-6-pteridinecarboxamides. 3,138,594, 6–23–64, Cl. 260—251.5.

Osdene, Thomas S., and A. A. Santilli, to American Home Products Corp. N - (cycloalkyl) - pteridinecarboxamides. 3,138,595, 6–23–64, Cl. 260—251.5.

Osgood, Charles F., to Joy Mfg. Co. Flexible idler roller for a conveyor belt. 3,118,532, 1–21–64, Cl. 198—192.

Osgood, Charles F., to Joy Mfg. Co. Rotary core cutting head mechanism for bore miner. 3,147,959, 9–8–64, Cl. 262—9.

O'Shea, John A., to Dunn Engineering Corp. Angular velocity multiplier. 3,117,458, 1–14–64, Cl. 74—198.

O'Shei, William E. Windscreen wipers. 3,123,849, 3–10–64, Cl. 15—250.35.

O'Shei, William E. Windscreen wipers. 3,135,983, 6–9–64, Cl 15—250.32.

Osher, Benjamin B., to American Kleer-VU Plastics, Inc. Card holder. 3,146,816, 9–1–64, Cl. 150—39.

O'Shields, Richard L.: *See*—
Erwin, Ransome W., and O'Shields. 3,136,723.

Oshikawa, Yoshisato, to Meiji Seika Kaisha Ltd., and Kinki Yakult Seizo Kabushiki Kaisha. Process for the production of seasonings from mushrooms with cellulase produced by microorganisms and the resulting product. 3,150,-983, 9–29–64, Cl. 99—140.

Oshima, Shintaro, to Kokusai Denshin Denwa Kabushiki Kaisha. Winding machine for magnetic cores of small size. 3,132,816, 5–12–64, Cl. 242—4.

Oshima, Shintaro, H. Enomoto, and K. Amano, to Kokusai Denshin Denwa Kabushiki Kaisha. Unidirectional amplifier consisting of concatenated bidirectional negative resistance amplifiers which are coupled by delay networks and energized sequentially. 3,141,138, 7–14–64, Cl. 330—61.

Oshima, Shintaro, H. Enomoto, S. Shirai, and Y. Koseki, to Kokusai Denshin Denwa Kabushiki Kaisha. System of logical operation including magnetic core circuit. 3,146,-354, 8–25–64, Cl. 307—88.

Oshima, Shintaro, and Y. Nakagome, to Kokusai Denshin Denwa Kabushiki Kaisha. Regenerative repeater for a time division multiplex start-stop telegraph switching system. 3,153,701, 10–20–64, Cl. 178—50.

Osier, Richard W. Automatic chick waterer. 3,157,160, 11–17–64, Cl. 119—79.

Osifchin, Nicholas, and E. E. Wright, to United States of America, Army. Method of making printed circuits. 3,152,938, 10–13–64, Cl. 156—3.

Osinski, Alfred L.: *See*—
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Kay, John G., and Osinski. 3,128,876.

Osmundsen, Norman K., and P. W. Bogner, to Westinghouse Electric Corp. Circuit interrupter having a rapidly vaporizable coil across a spark gap. 3,153,127, 10–13–64, Cl. 200—115.

Osowski, Anthony J.: *See*—
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Osrow, Harold: *See*—
Osrow, Leonard, and H. 3,145,735.

Osrow, Leonard, and H., to Osrow Products Co., Inc. Variably proportioning and variably metering plural-liquid valved dispensing units. 3,145,735, 8–25–64, Cl. 137—604.

Osrow Products Co., Inc.: *See*—
Osrow, Leonard, and H. 3,145,735.

Ossenbrunner, Armin, H. Schnell, H. Klockgether, J. Geiger, and J. Freier, to Agfa Aktiengesellschaft. Polycarbonate base photographic film including multiple layer subbing stratum. 3,148,985, 9–15–64, Cl. 96—87.

Ossenbrunner, Armin, H. Schnell, H. Klockgether, J. Geiger, and J. Freier, to Agfa Aktiengesellschaft. Subbed polycarbonate film base photographic article. 3,148,986, 9–15–64, 96—87.

Östberg, Karl G.: *See*—
Karlstrom, Karl A. S., and Östberg. 3,138,366.

Ostbergs Fabrik AB: *See*—
Johansson, Gustav I. 3,142,352.
Karlstrom, Karl A. S., Östberg, Allard, and Östberg. 3,138,366.

Osteen, Belmont D., to St. Regis Paper Co. Reclosable paperboard carton. 3,132,793, 5–12–64, Cl. 229—51.

Osten, Fred C., Sr. Spring-balance-mounted removable sash window. 3,124,849, 3–17–64, Cl. 20—52.2.

Osten, Fred C., Sr. Automatically-locking resiliently-balanced sash guide unit. 3,126,588, 3–31–64, Cl. 20—42.

Osten, Fred C., Sr. Window sash construction. 3,153,818, 10–27–64, Cl. 20—42.

Ostendorf, Bernard, Jr.: *See*—
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Ostensen, Ralph G., to SCM Corp. Photographic illumination device. 3,132,810, 5–12–64, Cl. 240—1.

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Oster, Gerald: *See*—
Oster, Gisela K. and G. 3,145,104.

Oster, Gerald, to The Carter's Ink Co. Electrophoretic printing. 3,145,156, 8–18–64, Cl. 204—180.

Oster, Gisela K. and G. Photographic processes comprising cross-linking of thiol polymers. 3,145,104, 8–18–64, Cl. 96—33.

Oster, John, Mfg. Co.: *See*—
Annis, Richard R., and Dorner. 3,161,796.
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Luther, William P. 3,119,942.

Oster, John N.: *See*—
Thomas, Clifford B., and Oster. 3,154,739.

Oster, Robert F.: *See*—
Evans, Dafydd W., and Oster. 3,143,233.

Oster, Robert F., to Towmotor Corp. Fork lift truck with a self-contained gripping and latching assembly. 3,142,-399, 7–28–64, Cl. 214—514.

Oster, Rudolf: *See*—
Dimroth, Peter, Duffner, Oster, and Pasedach. 3,136,-765.

Osterberg, Harold: *See*—
Kicks, John W., Snitzer, and Osterberg. 3,157,726.
Koester. Charles J., and Osterberg. 3,146,294.
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Osterloh, Fritz: *See*—
Achenbach, Karl, Osterloh, and Rothe. 3,160,580.
Braun, Oskar, Frank, and Osterloh. 3,120,508.

Ostermaier, Leo. Kiln for ceramics. 3,119,166, 1–28–64, Cl. 25—135.

Ostermann, Max, to W. & M. Ostermann. Winding device for winding wire onto rubber cores. 3,130,534, 4–28–64, Cl. 57—9.

Ostermann, W. & M.: *See*—
Ostermann, Max. 3,130,534.

Ostermayer, Franz H.: *See*—
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Wagner, Anton, Beck, and Diskus. 3,123,526.

Ostertag, Friedrich: *See*—
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Osterweil, Jacob. Medicinal compositions. 3,117,910, 1–14–64, Cl. 167—65.

Ostich, George. Pouring bell reamer for casting molds. 3,147,520, 9–8–64, Cl. 22—185.

Ostline, John E., deceased (M. A. Ostline, executrix), to Automatic Electric Laboratories, Inc. Private automatic branch exchange detector. 3,140,350, 7–7–64, Cl. 179—7.1.

Ostline, Mattie A.: *See*—
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Ostmann, Bernard G., Jr., to E. I. du Pont de Nemours and Co. Process of basting and removal of basting. 3,137,864, 6–23–64, Cl. 2—243.
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Otteman, Lloyd G., and L. C. Reese, to Shell Oil Co. Method and apparatus for drilling underwater wells. 3,142,344, 7–28–64, Cl. 175—7.
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Otto, George F., to Amchem Products, Inc. Materials and method for use in applying chromate conversion coatings on zinciferous surfaces. 3,130,086, 4–21–64, Cl. 148—6.21.

Otto, Herbert R., Jr. Oil filter. 3,142,640, 7–28–64, Cl. 210—136.

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Padgett, Cooper J., to General Electric Co. Shelf guard for refrigerator door shelves. 3,156,509, 11–10–64, Cl. 312—214.

Padgett, Eustes V., Jr., and D. H. Warf, to United States of America, Atomic Energy Commission. Bonding method. 3,130,491, 4–28–64, Cl. 29—470.

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Padula, Fred. Hydraulic thruster for vehicles and control therefor. 3,145,796, 8–25–64, Cl. 180—8.

Pafenberg, John D. Molds for swing leg anchors. 3,159,899, 12–8–64, Cl. 25—118.

Pafenberg, John D. Swing leg anchor molds. 3,159,900, 12–8–64, Cl. 25—118.

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Pagano, Frank, ⅓ to J. Uchitel. Device for shirring lining, reinforcement or stiffener for garments. 3,128,020, 4–7–64, Cl. 223—32.

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Page, Richard I., and R. D. Walther, to Foley Mfg. Co. Broiler unit. 3,158,085, 11–24–64, Cl. 99—402.

Page, Robert M., 8% to J. R. Page, and 16% to G. G. Leaf, as trustee, and 12½% to L. R. Philpott, and 37½% to L. C. Young. Automatic range and bearing follow-up systems. 3,143,733, 8–4–64, Cl. 343—9.

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Pahnke, Hans-Joachim, and P. Roux, to Maschinenfabrik Sack G.m.b.H. and L. Morane Etablissements. Extrusion presses. 3,120,304, 2–4–64, Cl. 207—1.

Paidar, Emil J., Co.: *See*—
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Siegal, Burton L., and Newman. 3,116,952.
Spaulding, Tedford H. 3,131,967.

Paige, Bernice E., K. I. Rohde, and B. J. Newby, to United States of America, Atomic Enery Commission. Emulsion control in liquid-suspension extraction. 3,154,376, 10–27–64, Cl. 23—14.5.

Paige, Richard E. Folding box. 3,131,849, 5–5–64, Cl. 229—34.

Paige, Richard E. Box or carton with locking means. 3,161,-343, 12–15–64, Cl. 229—35.

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Ascoli, Enzo. 3,136,594.
Grosjean, Arnold. 3,135,185.
Thevenaz, Jean. 3,135,156.
Thevenaz, Jean. 3,135,157.

Paille, Wilbrod A., G. Belli, and F. M. Fowler, to General Electric Co. Method and apparatus for producing blades. 3,147,539, 9–8–64, Cl. 29—156.8.
Paillet, Rene. Apparatus for gauging fruit and the like articles. 3,117,670, 1–14–64, Cl. 209—83.
Paine, Robert M.: *See*—
Beaver, Wallace W., Paine, and Stonehouse. 3,150,970.
Beaver, Wallace W., Paine, and Stonehouse. 3,150,975.
Stonehouse, Albert J., and Paine. 3,150,968.
Paine, Stuart R., H. E. Johnson, W. A. Mauch, and W. P. Sells, to Moderne Products Co., Inc. Foldable bed frame. 3,123,837, 3–10–64, Cl. 5—181.
Painter, Edwin S., R. C. Petrey, and J. H. Jensen, Jr., to Eastman Kodak Co. Process for the production of ketene and acetic anhydride. 3,136,811, 6–9–64, Cl. 260—546.
Painter, Howard S.: *See*—
Snyder, Donald L., Pfefferle, Fink, Nordstrom, and Painter. 3,146,124.
Painton & Co. Ltd.: *See*—
Baguley, George A. 3,136,176.
Pais, Bram, to The Budd Company. Explosives actuated hardness tester. 3,159,025, 12–1–64, Cl. 73—82.
Paisley, John, to Eastwoods Ltd. Apparatus for stacking or setting up bricks. 3,128,890, 4–14–64, Cl. 214—6.
Paivanas, John A.: *See*—
Bond, Frank D., Jr., Canty, and Paivanas. 3,152,452.
Canty, John M., Driscoll, Paivanas, and Snyder. 3,134,-237.
Paivanas, John A., A. W. Francis, and D. I-J. Wang, to Union Carbide Corp. Insulation construction. 3,133,422, 5–19–64, Cl. 62—50.
Pajaczkowski, Andrzej, to Imperial Chemical Industries Ltd. Polymerisation process. 3,129,206, 4–14–64, Cl. 260—88.7.
Pajes, Wolf S. Sound recording and reproducing apparatus. 3,145,267, 8–18–64, Cl. 179—100.2.
Pakan, John J., to A.R.F. Products, Inc. Frequency selective distribution device. 3,121,847, 2–18–64, Cl. 333—9.
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Kallenberg, Karl J. 3,155,025.
Kallenberg, Karl J. 3,157,087.
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Pakswer, Serge, and J. J. Dowd, to The Rauland Corp. Method of forming vacuum seals. 3,153,839, 10–27–64, Cl. 29—155.5.
Pakvis, Adrianus, to Rockwell Mfg. Co. Valve structure. 3,135,494, 6–2–64, Cl. 251—188.
Palange, Walter. Knitting machine. 3,143,868, 8–11–64, Cl. 66—1.
Palazzo, Giuseppe, and B. Silvestrini, to Angelini Francesco, Aziende Chimiche Riunite. 1.2.4-oxadiazoles and processes for producing the same. 3,141,019, 7–14–64, Cl. 260—247.5.
Palazzolo, Frank. Flexible hinge device for containers having a curved side. 3,135,456, 6–2–64, Cl. 229—44.
Palen, Peter H. Pressure control switch. 3,118,030, 1–14–64, Cl. 200—82.
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Dorsa, Frank J., Palermo, and Catalina. 3,134,413.
Palesotti, Carolyn D. Safety play suit. 3,144,668, 8–18–64, Cl. 9—329.
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Paliz-Holding AG.: *See*—
Bram, Walter. 3,153,922.
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Pall, David B. 3,122,924.
Pall, David B., and Siebel. 3,124,959.
Pall, David B., and Keedwell. 3,158,532.
Rosenberg, David J. 3,144,850.
Siebel, Mathias P. L. 3,140,690.
Pall, David B., to Pall Corp. Manometer. 3,122,924, 3–3–64, Cl. 73—401.
Pall, David B., and M. P. L. Siebel, to Pall Corp. Primary differential pressure sensing elements and transducers. 3,124,959, 3–17–64, Cl. 73—407.
Pall, David B., and C. A. Keedwell, to Pall Corp. Tapered pore filter elements. 3,158,532, 11–24–64, Cl. 162—103.
Pallach, Walter, to Hauni-Werke Korber & Co. K.G. Head mold for the rolling mold in a cigar making machine. 3,116,740, 1–7–64, Cl. 131—30.
Palladino, Michael J., to General Electric Co. Color television demodulation network. 3,133,987, 5–19–64, Cl. 178—5.4.
Palladino, Nunzio J.: *See*—
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Pallansch, Michael J.: *See*—
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Pallencher, Jacques: *See*—
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Palleon Electronics Ltd.: *See*—
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Paller, Frederick C., to Superior Industries, Inc. Battery clamping device. 3,125,177, 3–17–64, Cl. 180—68.5.
Paller, Frederick C., Jr., to Superior Industries, Inc. Safety belt buckle. 3,120,040, 2–4–64, Cl. 24—77.
Palm, Albert: *See*—
Merkel, Karl, and Palm. 3,117,968.
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Palm, Bernhard N., to Electra Motors, Inc. Variable speed drive. 3,154,959, 11–3–64, Cl. 74—230.17.
Palm, Bert E., to The Lubrizol Corp. Phosphating process. 3,144,360, 8–11–64, Cl. 148—6.15.
Palm, Clifford W., and W. R. Gibson, to Celanese Corp. of America. Apparatus for producing a composite novelty slub yarn. 3,144,747, 8–18–64, Cl. 57—34.
Palm, Felix. Disposable tray and blank. 3,139,255, 6–30–64, Cl. 248—150.
Palm, Felix L. Container holder and blank. 3,128,984, 4–14–64, Cl. 248—311.
Palm, William W. Hot water heating system. 3,116,876, 1–7–64, Cl. 237—8.
Palm, William W., to Continental Boilers, Inc. Fire tube boiler. 3,153,429, 10–20–64, Cl. 138—38.
Palma, James R. Apparatus for filling nursing bottles. 3,157,210, 11–17–64, Cl. 141—82.
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Palma, Oscar J., and J. H. Abbott, Jr., to Monsanto Co. Apparatus and method for yarn texturizing. 3,154,835, 11–3–64, Cl. 28—1.
Palmer, Anthony J. and R. L., to Palmer Products Co. Manually operable air blower. 3,162,371, 12–22–64, Cl. 239—327.
Palmer, Basil S., to Packers Supply Co. Ltd. Tool for applying binding strapping, wire and the like about articles. 3,144,888, 8–18–64, Cl. 140—93.2.
Palmer, Berthold L. Pedal depressers for vehicle brakes. 3,143,002, 8–4–64, Cl. 74—532.
Palmer, Charles E., and J. S. Lemanski; said Lemanski assor. to said Palmer. Multi-compartment carton and blank therefor. 3,130,894, 4–28–64, Cl. 229—28.
Palmer, Everett M. Animal feeder and insecticide dispenser. 3,137,274, 6–16–64, Cl. 119—157.
Palmer, Frank J., to P. Minnock. Razor blade sharpener. 3,131,516, 5–5–64, Cl. 51—65.
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Palmer, Howard R., to Titanium Metals Corp. of America. Furnace for determining melting points of metals. 3,160,-693, 12–8–64, Cl. 13—22.
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Palmer, James E., and J. T. Swaim, to Radio Corp. of America. Oscillator with triggerable phasing. 3,133,257, 5–12–64, Cl. 331—113.
Palmer, Jean A. Engine starting apparatus. 3,140,617, 7–14–64 Cl. 74—6.
Palmer, Jewell S., to Esso Research and Engineering Co. Heat pump. 3,157,227, 11–17–64, Cl. 165—29.
Palmer, Jewell S., and W. K. Roquemore, to Esso Research and Engineering Co. Fluidized catalytic cracking process. 3,123,547, 3–3–64, Cl. 208—78.
Palmer, Joanne V. Layout template for picture framing mats. 3,156,984, 11–17–64, Cl. 33—189.
Palmer, John E., to Golden Arrow Mfg. Ltd. Row crop sprayer. 3,117,725, 1–14–64, Cl. 239—168.
Palmer, John S., to International Harvester Co. Combination cylinder type threshing machine and rotating separating drum. 3,126,893, 3–31–64, Cl. 130—27.
Palmer, Leon E., to International Business Machines Corp. Escapement mechanism for typewriter. 3,126,998, 3–31–64, Cl. 197—82.
Palmer, Leon E., to International Business Machines Corp. Print interlock for typewriter. 3,157,265, 11–17–64, Cl. 197—16.
Palmer, Lewis E., to Union Insulating Co., Inc. Molded plastic outlet boxes with attached metal mounting brackets. Re. 25,593, 6–9–64, Cl. 220—3.9.
Palmer, Lewis E., to Union Insulating Co. Molded plastic outlet boxes with grounding plates. 3,119,895, 1–28–64, Cl. 174—51.
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Palmer, Oskar, and K. Gies, to Baustahlgewebe G.m.b.H. Rod rolling method. 3,136,054, 6–9–64, Cl. 29—547.
Palmer, Peter J.: *See*—
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Palmer, Richard N. Plastic sod. 3,157,557, 11–17–64, Cl. 161—19.
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Palmer, Robert E., to Palmer, Inc. Dispensing container. 3,141,597, 7–21–64, Cl. 229—17.
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Palmer, Anthony J. and R. L. 3,162,371.
Palmer, Robert T., to Westinghouse Electric Corp. Controls for heat pumps having air exposed outdoor air coils. 3,133,424, 5–19–64, Cl. 62—160.
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Palmer, Warren G., to American Machine & Foundry Co. Deviation measuring and computing system. 3,146,344, 8–25–64, Cl. 235—151.

Palmer, Willard R., Jr.: *See*—
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Palmer, William F., to Sylvania Electric Products Inc. Multivibrator circuit employing transistors of complementary types. 3,121,802, 2–18–64, Cl. 307—88.5.
Palmer, William H., and R. B. Wallis, to General Motors Corp. Plate type friction coupling. 3,157,057, 11–17–64, Cl. 74—378.
Palmer, Winslow, to Sperry Rand Corp. Timing signal receiver. 3,117,280, 1–7–64, Cl. 325—351.
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Palopoli, Frank P., V. J. Feil, and T. R. Blohm. Basic-substituted-alkyl triphenylethanols, triphenylethylenes and triphenylethanes. 3,123,643. 3–3–64, Cl. 260—570.
Palopoli, Frank P., H. D. Benson, R. E. Allen, and E. L. Schumann. Heterocyclic derivatives of diarylethanes and diarylethylenes II. 3,135,745, 6–2–64, Cl. 260—240.
Palopoli, Frank P., H. D. Benson, R. E. Allen, and E. L. Schumann, to Richardson-Merrell Inc. Piperidyl and cycloalkyl derivatives of 1,1- and 1,2-diarylethanols. 3,150,144, 9–22–64, Cl. 260—294.7.
Pals, Jan, to North American Philips Co., Inc. Armature winding apparatus. 3,121,539, 2–18–64, Cl. 242—13.
Palsson, Kristjan H., to Pacific Car and Foundry Co. Lading separator for railway cars and other vehicles. 3,144,839, 8–18–64, Cl. 105—376.
Palthe, Richard W., to Ampex Corp. Signal waveform generator employing storage capacitor charged and discharged through transistors of opposite conductivity. 3,125,694, 3–17–64, Cl. 307—88.5.
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Skubic, Leroy F. 3,159,116.
Skubic, Leroy F. 3,160,120.
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Natta, Giulio, Porri, and Palvarini. 3,137,683.
Palyi, Leslie, to Universal Milling and Machinery Ltd. Hammer mill having coaxial impeller. 3,123,312. 3–3–64, Cl. 241—55.
Palyi, Leslie, to Universal Milling and Machinery Ltd. High efficiency hammer mill. 3,143,303, 8–4–64, Cl. 241—51.
Pampel, Leonard F. Stabilization of a closed or open water system through the selective utilization of light. 3,155,609, 11–3–64, Cl. 210—3.
Pamplin, James B. Rotary fluid displacement apparatus. 3,156,158, 11–10–64, Cl. 91—96.
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Pampus, Gottfried, H. Grone, and J. Witte, to Farbenfabriken Bayer Aktiengesellschaft. Polymerization of conjugated diolefines. 3,163,630, 12–29–64, Cl. 260—94.2.
Pamula, Gladys. Toy house construction. 3,129,526, 4–21–64, Cl. 46—21.
Pan American Petroleum Corp.: *See*—
Archer, Duane L. 3,120,262.
Bearden, William G., and Howard. 3,126,958.
Berry, Virgil J., Jr. 3,126,956.
Carter, Robert D. 3,159,214.
Cordell, Ralph L., and Evans. 3,126,976.
Craig, Forrest F., Jr., Grekel, and Hujsak. 3,126,961.
Craig, Forrest F., Jr., and Hujsak. 3,155,160.
Eisler, Joseph D. 3,151,291.
Eisler, Joseph D., and Silverman. 3,131,633.
Elkins, Lloyd E. 3,139,139.
Flickinger, Don H. 3,145,770.
Flickinger, Don H., Howard, and Rixe. 3,155,162.
Froning, H. Robert, and Grekel. 3,154,383.
Geffen, Theodore M., Grekel, and Hujsak. 3,152,638.
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Grekel, Howard, Howard, and Hujsak. 3,145,778.
Henley, Donald H. 3,163,211.
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Martin, Theodore T., and Randall. 3,120,266.
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Scott, Philip H. 3,131,761.
Silverman, Daniel. 3,150,590.
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Silverman, Daniel, and Hadley. 3,142,750.
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Wilder, Lawrence B., and Vincent. 3,154,153.
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Cooper, Cleveland N. 3,122,118.
Cooper, Cleveland N. 3,145,862.
Wuesthoff, Paul P. 3,156,480.
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Peterson, Robert G., Panek, and Shulte. 3,156,513.
Panella, Paul. Clean out plug assembly. 3,148,708, 9–15–64, Cl. 138—89.
Pangonis, William J., to E. I. du Pont de Nemours and Co. Regenerated cellulose shaped articles and process. 3,136,644, 6–9–64, Cl. 106—168.
Pangborn Corp., The: *See*—
Bowling, Joseph E., Jr., and Moore. 3,160,990.
Bradley, Charles H. 3,160,991.
Hartman, Edward L. 3,162,983.
Hartman, Edward L., and Moore. 3,151,417.
McCormick, William A., Jr. 3,160,993.
Moore, Ralph W. 3,141,264.
Moore, Ralph W. 3,160,992.
Powell, George W., and Croft. 3,151,418.
Powell, George W., and Fahrney. 3,161,991.
Pangburn, Thomas W., to Fisher Governor Co. Seal arrangement for a butterfly valve. 3,143,132, 8–4–64, Cl. 137—375.
Panger, Sam: *See*—
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Panhandle Eastern Pipe Line Co.: *See*—
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Panhard, Paul, to Societe Anonyme des Anciens Etablissements Panhard & Levassor. Disc brake controlled by a frusto-conical member. 3,160,235, 12–8–64, Cl. 188—72.
Paniplus Co., The: *See*—
Buddemeyer, Bruce D., and Moneymaker. 3,141,030.
Buddemeyer, Bruce D., and Moneymaker. 3,146,110.
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Pankove, Jacques I., to Radio Corp. of America. Solid state superconductor triode. 3,155,886, 11–3–64, Cl. 317—235.
Pannell, Dennis W. Flexible liquid flow barrier for embalming table. 3,128,091, 4–7–64, Cl. 269—327.
Pannell, Robert G., ½ to Graviner Mfg. Co. Ltd., and ½ to Wilkinson Sword Ltd. Pressure operated electric switches. 3,140,369, 7–7–64, Cl. 200—83.
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Lancaster, Donald E. 3,149,561.
Pannier, Ralph A. Re. 25,681.
Pannier, Ralph A. 3,119,329.
Pannier, Ralph A., and Martin. 3,126,822.
Pannier, Ralph A., to The Pannier Corp. Marking device for differentially coated tin plate. Re. 25,681, 11–10–64, Cl. 101—375.
Pannier, Ralph A., to The Pannier Corp. Marking device for differentially coated tin plate. 3,119,329, 1–28–64, Cl. 101—375.
Pannier, Ralph A., and G. E. Martin, to The Pannier Corp. Gauge stop hot metal stamp. 3,126,822, 3–31–64, Cl. 101—4.
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Caines, James F., Dyer, and Pannill. 3,126,095.
Pannozzo, Michael L. Golf shoe spike wrench. 3,140,625, 7–14–64, Cl. 81—63.
Pannutti, Antone D. Pressure metering dispenser. 3,118,462, 1–21–64, Cl. 137—268.
Panny, Joseph H.: *See*—
Koester, Gordon E., and Panny. 3,143,025.
Pano, Peter V., R. A. Clark, and M. H. Payne, to Linen Supply Association of America. Winding apparatus. 3,133,712, 5–19–64, Cl. 242—66.
Panofsky, Wolfgang K. H.: *See*—
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Pansing, Fred L., to General Motors Corp. Refrigerating apparatus including defrost control. 3,120,108, 2–4–64, Cl. 62—126.
Panson, Gilbert S., and C. E. Weill, to Metal Hydrides Inc. Method for dyeing textile materials with vat dyes. 3,124,411, 3–10–64, Cl. 8—34.
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Weiss, Hugh R. 3,143,237.
Pantazos, Iwanne. Convertible ironing assistance table. 3,145,668, 8–25–64, Cl. 108—93.
Panter-Arcadia Tool & Die Co.: *See*—
Rueppel, Fred R. 3,133,367.
Pantronic, Inc.: *See*—
Martinez, Louis. 3,161,713.
Pantzke, Roletta J. Collar and front garment attachment. 3,158,872, 12–1–64, Cl. 2—115.
Panzer, Adolf. Cabinet nail. 3,121,366, 2–18–64, Cl. 85—21.
Panzer, Richard E., to United States of America, Navy. Nonaqueous solvent electrolytes. 3,117,032, 1–7–64, Cl. 136—4.
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Millhiser, Robert G., Panzica, and Johnson. 3,122,863.
Millhiser, Robert G., Panzica, Umbricht, and Evans. 3,146,550.
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Rakoczi, Laszlo L., and Paoletti. 3,162,816.

Paone, Anthony N., to SCM Corp. Ribbon spool cover suspension mechanism. 3,123,196, 3–3–64, Cl. 197—186.
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Papacosta, John P., and R. W. Crews, to A. B. Dick Co. Evaporator vacuum pump. 3,149,716, 9–22–64, Cl. 206—.4.
Papacharalambous, Harry G., to The Carborundum Co. Method of producing spherical particles. 3,160,997, 12–15–64, Cl. 51—281.
Papadopoulos, Michael N.: *See*—
Deal, Carl N., Jr., Derr, and Papadopoulos. 3,161,461.
Papadopoulos, Michael N., C. H. Deal, and E. E. Young, to Shell Oil Co. Recovery of aromatics. 3,146,190, 8–25–64, Cl. 208—313.
Papalas, Nicholas B., to Federal Pacific Electric Co. Bus duct plug-in device. 3,126,241, 3–24–64, Cl. 339—22.
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Papasso, Frank P.: *See*—
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Pape, August C. Gasoline transfer container. 3,124,149, 3–10–64, Cl. 137—150.
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Paper Mate Mfg. Co.: *See*—
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Paper Products Co.: *See*—
Dunning, Robert M. 3,147,862.
Papetti, Stelvio, to Olin Mathieson Chemical Corp. Silicon-containing organoboron compounds and method for their preparation. 3,137,719, 6–16–64, Cl. 260—448.2.
Papke, Friedrich, to Voigtlander A.G. Photographic viewfinder with divided field frame and imaging means. 3,127,463, 3–31–64, Cl. 88—2.4.
Papke, Friedrich, to Voigtlander A.G. Viewfinder for photographic cameras providing, in the field of view thereof, images of both a picture limiting frame and a remotely located indicating means. 3,139,478, 6–30–64, Cl. 88—1.5.
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Pappas, Charles A., to V. E. Beaver and R. B. Hamilton. Conversion of installed jalousie windows to awning type windows. 3,159,909, 12–8–64, Cl. 29—401.
Pappas, Phillip M. Formable gas burner. 3,133,588, 5–19–64, Cl. 158—99.
Pappo, Raphael, to G. D. Searle & Co. 11-oxygenated 17*α*, 21-dihydroxy-3-oxa-a-homopregn-4*α*-ene-4, 20-diones, esters thereof, and intermediates thereto. 3,128,282, 4–7–64, Cl. 260—340.9.
Pappo, Raphael, to G. D. Searle & Co. 17-oxygenated oxasteroids and intermediates thereto. 3,128,283, 4–7–64, Cl. 260—343.2.
Pappo, Raphael, to G. D. Searle & Co. Optionally 17*α*-alkylated 17*β* - (substituted - oxy) - 2-oxa-5*α*-androstan-3-ones. 3,155,684, 11–3–64, Cl. 260—343.2.
Pappo, Raphael, and L. N. Nysted, to G. D. Searle & Co. Process and 5-oxygenated intermediates for the manufacture of 19-norsteroids of the androstane series. 3,157,643, 11–17–64, Cl. 260—239.55.
Pappo, Raphael, and R. T. Nicholson, to G. D. Searle & Co. Process and intermediates for manufacture of 19-hydroxypregn-4-ene-3,20-dione. 3,159,619, 12–1–64, Cl. 260—239.55.
Papps, Clyde E. Carded web transfer apparatus. 3,132,383, 5–12–64, Cl. 19—106.
Papsis, Edward J., to Minneapolis-Honeywell Regulator Co. Electro-mechanical apparatus for determining cut through characteristics on insulated wire. 3,150,523, 9–29–64, Cl. 73—101.
Paquet, Max. Process for the treatment of filaments, fibres, fabrics and carpets. 3,131,087, 4–28–64, Cl. 117—139.5.
Paquette, Leo A., to The Upjohn Co. Novel sulfonylhydrazones of cyclic halovinyl aldehydes. 3,129,257, 4–14–64, Cl. 260—556.
Paquette, Leo A., to The Upjohn Co. Amidinohydrazones of cyclic halovinyl aldehydes. 3,130,232, 4–21–64, Cl. 260—564.
Paquette, Leo A., to The Upjohn Co. Semicarbazones of naphthaldehydes and 5H benzocycloheptene-8-carboxaldehydes. 3,139,458, 6–30–64, Cl. 260—554.
Paquette, Leo A., to The Upjohn Co. 3-oxo-2-azabicyclo-[3.2.2] non-6-ene-8,8,9,9-tetracarbonitriles. 3,152,118, 10–6–64, Cl. 260—239.3.
Paquette, Leo A., to The Upjohn Co. N-substituted 1,3-dihydro-2H-azepin-2-ones. 3,158,600, 11–24–64, Cl. 260—239.3.
Paquin, Leon J., O. D. Mosher, and G. M. Violette, to International Paper Co. Extrusion coated paper and method of making the same. 3,161,560, 12–15–64, Cl. 161—250.
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Muehlebach, William D., and Paradise. 3,144,936.
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Parczewski, Krzysztof I., to Celanese Corp. of America. Terephthalamide polymer in solvent comprising antimony trichloride and acetic or formic acid. 3,154,512, 10–27–64, Cl. 260—31.2.
Parczewski, Krzysztof I., to Celanese Corp. of America. Process of wet spinning terephthalamide polymers from concentrated phosphoric acid solution and composition thereof. 3,154,612, 10–27–64, Cl. 264—184.
Pardee, Edward L. E. Plural interval timing device having a conductor matrix for selection of the time intervals. 3,152,323, 10–6–64, Cl. 340—309.1.
Pardee, William S. Tire removal tool. 3,149,661, 9–22–64, Cl. 157—1.2.
Pardini, John A., and V. Hutter, to United States of America, Atomic Energy Commission. Force limiting device for motor control. 3,145,333, 8–18–64, Cl. 318—475.
Pardonnet, George E. Boat trailer. 3,120,317, 2–4–64, Cl. 214—512.
Pardue, George H., to Schlumberger Well Surveying Corp. Acoustic logging tools. 3,161,256, 12–15–64, Cl. 181—.5.
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Paré, Philip J., and M. Hauser, to American Cyanamid Co. Vinoxycarbonylmethyltrialkylphosphonium halides and polymers thereof. 3,125,555, 3–17–64, Cl. 260—89.1.
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Parhaniemi, Osmo E. Pruning device. 3,138,869, 6–30–64, Cl. 30—187.
Parilla, Arthur R. Fluid spring system for vehicles. 3,122,378, 2–25–64, Cl. 280—6.
Parilla, Arthur R. Propulsion devices. 3,151,446, 10–6–64, Cl. 60—35.6.
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Pariser, Jack J., and A. M. Jusko, to Hughes Aircraft Co. Binary rate multiplier. 3,126,476, 3–24–64, Cl. 235—164.
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Parish, Roy. Actuator-adapter for spray can. 3,159,319, 12–1–64, Cl. 222—394.
Parisi, Charles G., and D. P. Poulios, to C. G. Parisi, J. Parisi, and R. Thompson. Food package. 3,135,614, 6–2–64, Cl. 99—192.

Parisi, Frank E., to General Electronic Laboratories, Inc. Around the mast rotary coupling having shielded stator and rotor rings in near contact to form trough waveguides. 3,123,782, 3–3–64, Cl. 333—98.

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Park, Donald M., to Park-Baker Electronic Development Corp. Electronic music circuit. 3,146,290, 8–25–64, Cl. 84—1.03.

Park, John A., and R. P. Fox; said Fox assor. to American Hoist & Derrick Co. Cableway for bridge construction. 3,116,838, 1–7–64, Cl. 212—94.

Park, Joseph D., to Minnesota Mining and Mfg. Co. Process for preparing polyfluorinated nitrosoalkanes. 3,162,590, 12–22–64, Cl. 204—158.

Park, Joseph D., and R. W. Rosser, to Minnesota Mining and Mfg. Co. Process for preparing nitrosyl polyfluoroacylates. 3,160,660, 12–8–64, Cl. 260—545.

Park, Joseph K., and B. K. Webb, to United States of America, Agriculture. Corn header attachment. 3,156,079, 11–10-64, Cl. 56—2.

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Park, Orrin J., and E. T. Humphreys, to The Magee Carpet Co. Apparatus for controlling the insertion and withdrawal of pile wires of a loom. 3,149,647, 9–22–64, Cl. 139—42.

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Park, Robert H. Fluid system for an underwater ground mine. 3,152,546, 10–13–64, Cl. 102—18.

Park, William R. R., and H. W. Heiserkamp, to The Dow Chemical Co. Method of coating an oriented thermoplastic web. 3,124,476, 3–10–64, Cl. 117—47.

Park, William R. R., and J. H. Stickelmeyer, to The Dow Chemical Co. Coated alkenyl aromatic article and method of coating. 3,128,200, 4–7–64, Cl. 117—72.

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Parker, Earl E., to Pittsburgh Plate Glass Co. Mixtures of unsaturated polyesters and a copolymerizable monomer. 3,159,690, 12–1–64, Cl. 260—864.

Parker, Edward A., and J. A. Powers, to Technic, Inc. Acid gold plating. 3,149,057, 9–15–64, Cl. 204—46.

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Parker, Harold N., to Calbest Engineering & Electronics Co. Stereophonic amplifier. 3,122,713, 2–25–64, Cl. 330—122.

Parker, Harry W., to Phillips Petroleum Co. Method of preparing compositions comprising paramagnetic metals and thermoplastic materials. 3,117,092, 1–7–64, Cl. 252—62.5.

Parker, Harry W., to Phillips Petroleum Co. Water flooding technique. 3,135,325, 6–2–64, Cl. 166—9.

Parker, Harry W., to Phillips Petroleum Co. In situ electrolinking of oil shale. 3,137,347, 6–16–64, Cl. 166—39.

Parker, Harry W., to United States of America, Atomic Energy Commission. Method of preventing film deposits from organic coolant in the presence of electron irradiation. 3,141,971, 7–21–64, Cl. 250—49.5.

Parker, Howard E., to Plough Laboratories, Inc. Carbon dioxide releasing laxative suppository. 3,121,663, 2–18–64, Cl. 167—64.

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Parker, Kenneth, and D. W. Doman, to The Parker Pen Co. Writing instrument releasable securing means. 3,128,514, 4–14–64, Cl. 24—11.

Parker, Kenneth O., to United Aircraft Products, Inc. Pipe joint. 3,116,944, 1–7–64, Cl. 285—332.2.

Parker, Kenneth O., and R. L. Campbell, to United Aircraft Products, Inc. Valve and heat exchanger assembly. 3,145,-768, 8–25–64, Cl. 165—39.

Parker, Kenneth O., and J. P. Boland, to United Aircraft Products, Inc. Valve for heat exchanger assembly. 3,145,928, 8–25–64, Cl. 236—99.

Parker, Leland C., to General Motors Corp. Crankcase ventilation control device. 3,161,187, 12–15–64, Cl. 123—119.

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Parker, Leon B., and A. L. Guy, Jr., to Jersey Production Research Co. Apparatus for installing piling. 3,134,234, 5–26–64, Cl. 61—46.

Parker, Leon B., and A. L. Guy, to Jersey Production Research Co. Installation of piling. 3,134,235, 5–26–64, Cl. 61—46.

Parker, Leslie K.: *See*—
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Parker, Leslie K., to The Perkin-Elmer Corp. Electrical heating devices. 3,118,042, 1–14–64, Cl. 219—19.
Parker, Lewis E., to E. I. du Pont de Nemours and Co. Apparatus and method for treating filamentary material. 3,156,582, 11–10–64, Cl. 117—111.
Parker, Louis W. Printed circuit meter rotors. 3,133,249, 5–12–64, Cl. 324—150.
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Parker, Milton E., to W. R. Grace & Co. Method of producing a food supplement. 3,130,054, 4–21–64, Cl. 99—2.
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Parker, Richard H., to Union Carbide Corp. Flashlight and reflector assembly therefor. 3,128,050, 4–7–64, Cl. 240—10.66.
Parker, Rienzi B., Jr., and B. V. Mokler, to Kalvar Corp. Methacrylonitrile vehicle for vesicular photography and method of using same. 3,161,511, 12–15–64, Cl. 96—49.
Parker, Robert W., to Engineering Productions (Clevedon) Ltd. Dust-excluding sleeve for rack and pinion steering gear. 3,124,006, 3–10–64, Cl. 74—18.2.
Parker, Robert W., to Engineering Productions (Clevedon) Ltd. Steering gear. 3,157,061, 11–17–64, Cl. 74—498.
Parker, Robert W., to The Parker Engineering & Research Co. Cutting machine. 3,162,927, 12–29–64, Cl. 29—51.
Parker, Samuel P., and J. T. Short, to Callaway Mills Co. Shedding mechanism for a loom. 3,139,909, 7–7–64, Cl. 139—55.
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Parkin, Barnard A., Jr., and G. W. Hedrick, to United States of America, Agriculture. Monomers, polymers, and copolymers of vinyl acyl pinolates. 3,119,796, 1–28–64, Cl. 260—87.1.
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Parkinson, John S., to E. I. du Pont de Nemours and Co. Tenter clip assembly. 3,118,212, 1–21–64, Cl. 26—61.
Parkinson, Martin C., and C. E. Bender, to The Virtis Co., Inc. Method of producing a gas-tight seal between a pair of adjacent sections of a freeze-drying container. 3,138,937, 6–30–64, Cl. 62—100.
Parkinson, Robert C., to Bourns, Inc. Helical Bourdon tube pressure potentiometer. 3,145,359, 8–18–64, Cl. 338—40.
Parkinson, Robert C., to Bourns, Inc. Potentiometer transducer. 3,145,361, 8–18–64, Cl. 338—46.
Parkinson, William C., H. E. Ober, and R. B. Roberts, to United States of America, Navy. Airborne vehicle remote control device. 3,126,172, 3–24–64, Cl. 244—14.
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Parks, John H., and J. G. Wellwood, to Caterpillar Tractor Co. Double acting hydraulic servo governor. 3,145,624, 8–25–64, Cl. 91—366.
Parks, Paul F., to Tekronix, Inc. Semiconductor bridge rectifier. 3,159,780, 12–1–64, Cl. 321—46.
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Parmeggiani, Gaetano, to Marelli Lenkurt S.p.A. Antenna reflector and feed with absorbers to reduce back radiation to feed. 3,156,917, 11–10–64, Cl. 343—782.
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Patrick, Robert L., and C. T. Esposito, to Alpha Research and Development, Inc. Desiccant container with desiccant saturation indicator. 3,142,830, 7–28–64, Cl. 340—235.
Patrick, Rudolph R.: *See*—
Touzalin, Robert E., and Patrick. 3,156,452.
Patrignani, Théo, to Centre d'Etudes et d'Applications des Techniques de Production. Handling apparatus. 3,150,787, 9–29–64, Cl. 214—514.
Patrignani, Theo, to Centre d'Etudes et d'Applications des Techniques de Production. Transmission device. 3,153,-940, 10–27–64, Cl. 74—250.
Patriquin, George P., and N. R. Adler, to Independent Lock Co. Residential lock assembly. 3,128,115, 4–7–64, Cl. 292—336.3.
Patriquin, George P., and N. R. Adler, to Independent Lock Co. Retainer means for cylindrical locks. 3,128,116, 4–7–64, Cl. 292—358.
Patry, Ernest: *See*—
Patry, Harvey L., F. J., E., and Lamont. 3,123,188.
Patry, Francis J.: *See*—
Patry, Harvey L., F. J., E., and Lamont. 3,123,188.
Patry, Harvey L., F. J., E., and H. B. Lamont, to Lamont & Riley, Inc. Expansion joints for metal panels. 3,123,188, 3–3–64, Cl. 189—36.
Pattee, John R., to Daystrom Inc. Integrating apparatus using a torque converter rebalanced by the output of a generator driven by the converter output. 3,128,429, 4–7–64, Cl. 324—99.
Patten, Julius. Mobile container for carrying and accommodating domestic animals. 3,156,213, 11–10–64, Cl. 119—19.
Patterson, Carlos W.: *See*—
Patterson, Lee R. and C. W. 3,132,876.
Patterson, Charles E. Tap shoes and taps therefor. 3,121,-287, 2–18–64, Cl. 36—8.3.
Patterson, Charles H.: *See*—
Martin, Stanley W., and Patterson. 3,148,816.
Patterson, Gillette V., to Swartwout Fabricators, Inc. Roof ventilator. 3,122,088, 2–25–64, Cl. 98—43.
Patterson, Edward J., Jr.: *See*—
Gatlin, Frank B., Guerrant, Patterson, and Snider. 3,132,844.
Patterson, George C.: *See*—
Ragland, Benjamin, and Patterson. 3,162,364.
Patterson, George D.: *See*—
Nickerson, Mortimer H., Schnitzer, Curtis, and Patterson. 3,129,191.
Patterson, Harry F., and T. E. Little. Handled implement holder for shopping carts. 3,129,916, 4–21–64, Cl. 248—113.
Patterson, Hugh T., and A. J. Strohmaier, to E. I. du Pont de Nemours and Co. Rope finish. 3,155,537, 11–3–64, Cl. 117—138.8.
Patterson Industries, Inc.: *See*—
Entrikin, Raymond A. 3,149,823.
Patterson-Kelley Co., Inc., The: *See*—
Lowe, Leonard F. 3,133,590.
Patterson-Kelly Co., The: *See*—
Fischer, John J. 3,158,358.
Patterson, Kenneth H., to United States of America, Army. Broad band frequency multiplier and mixer. 3,143,109, 8–4–64, Cl. 328—133.
Patterson, Lawrence W., to Vita-Pakt Citrus Products Co. Display stands. 3,151,576, 10–6–64, Cl. 108—2.
Patterson, Lawrence W., to Vita-Pakt Citrus Products Co. Display stand. 3,151,744, 10–6–64, Cl. 211—49.
Patterson, Lee R. and C. W. Walking beam split tandem axle assembly. 3,132,876, 5–12–64, Cl. 280—104.5.
Patterson, Morehead, to American Machine & Foundry Co. Cigarette making machine. 3,128,773, 4–14–64, Cl. 131—62.
Patterson, Raymond B.: *See*—
Floyd, Harmanson H., and Patterson. 3,132,672.
Patterson, William A., to Fort Pitt Bridge Works. Method and apparatus for producing glass beads. 3,151,965, 10–6–64, Cl. 65—21.
Patterson, William C., to Nebraska Engineering Co. Self-centering auger apparatus. 3,155,247, 11–3–64, Cl. 214—17.
Patterson, William J.: *See*—
Best, Frank E., and Patterson. 3,137,892.
Patterson, Woodrow W. Pin dispenser. 3,146,042, 8–25–64, Cl. 312—73.
Pattin, Howard S., to United States of America, Navy Galvanic battery. 3,150,009, 9–22–64, Cl. 136—90.
Pattison, Wesley S.: *See*—
Payton, Don E., and Pattison. 3,150,905.
Patton, Franklin S., to Sterling Seal Co. One piece lug cap. 3,150,789, 9–29–64, Cl. 215—44.
Patton, Franklin S., and R. V. King, to Sterling Seal Co. Closure for a container. 3,136,453, 6–9–64, Cl. 222—182.
Patton, George H., to Sawyer's Inc. Collapsible plastic stereoscopic viewer. 3,145,253, 8–18–64, Cl. 88—29.
Patton, Henry W., to Acromag, Inc. Magnetic amplifier and controlling device. 3,123,764, 3–3–64, Cl. 323—56.
Patton, John J. Process and apparatus for weighing a predetermined amount of materials. 3,126,974, 3–31–64, Cl. 177—122.
Patton, John T.: *See*—
Lindblom, Gordon P., and Patton. 3,163,602.
Patton, Roy C. Work apparatus for use on railroads and the like. 3,144,837, 8–18–64, Cl. 105—1.
Patton, Stuart, to Research Corp. Flavor stabilization of milk fat. 3,127,275, 3–31–64, Cl. 99—203.
Paturzo, Salvatore, to V. Paturzo, Bro. & Son, Inc. Method of producing decorative masonry blocks. 3,155,529, 11–3–64, Cl. 117—8.
Paturzo, V., Bro. & Son, Inc.: *See*—
Paturzo, Salvatore. 3,155,529.
Patzelt, Klaudius: *See*—
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Dannenmann, Paul, and Patzelt. 3,118,458.
Dannenmann, Paul, and Patzelt. 3,133,547.
Patzelt, Klaudius, and K. Lengsfeld, to G. Bauknecht, G.m.b.H. Detergent dispenser for washing machines. 3,160,319, 12–8–64, Cl. 222—54.
Patzer, William A., to Automatic Canteen Co. of America. Method and apparatus for testing paper currency and the like. 3,133,641, 5–19–64, Cl. 209—111.5.
Patzig, Rondo H.: *See*—
Daigh, Harold D., and Patzig. 3,157,467.
Paugh, Fred, to The Jaeger Machine Co. Enclosed rotary industrial air compressor. 3,156,409, 11–10–64, Cl. 230—211.
Paul, Adolf, to Steinbock G.m.b.H. Transport vehicle for aircraft. 3,119,502, 1–28–64, Cl. 214—505.
Paul, Albert P., and R. F. Beidler, to American Cyanamid Co. Preparation of pure alpha-naphthalene sulfonic acid and alpha-naphthol. 3,155,716, 11–3–64, Cl. 260—505.
Paul, Archie J., Jr., to International Business Machines Corp. Information handling apparatus. 3,130,399, 4–21–64, Cl. 340—347.
Paul, Carl E., to General Electric Co. Electrical capacitor protective arrangement. 3,155,876, 11–3–64, Cl. 317—12.
Paul, Carlton H., and H. J. Wood, to The Garrett Corp. Gas turbine compressor. 3,163,003, 12–29–64, Cl. 60—39.36.
Paul, Charles C., and N. T. Kuypers, to National Steel Corp. Metallic building construction. 3,124,224, 3–10–64, Cl. 189—64.
Paul, Harry C. Endless flexible track for vehicles. 3,123,-410, 3–3–64, Cl. 305—35.
Paul, James T., Jr., to United States of America, Navy. Organic explosive compositions suitable for weapon casings. 3,147,162, 9–1–64, Cl. 149—19.
Paul, Mahrle F., to Pasco Air-Aid, Inc. Auxiliary vehicle air spring. 3,140,083, 7–7–64, Cl. 267—15.
Paul, Rolf: *See*—
Anderson, George W., and Paul. 3,121,707.
Paul, Siegfried, and A. Hoppmann, to H. Wohlenberg Kommanditgesellschaft. Magnetizable memory system. 3,162,-859, 12–22–64, Cl. 346—74.
Paul, Stephen H.: *See*—
Achterberg, Arthur C., and Paul. 3,118,651.
Paul, Tadeusz. Handle soap sponge. 3,128,493, 4–14–64, Cl. 15—542.
Paul, Theodore R. Dynamo-electric machine commutator construction. 3,146,364, 8–25–64, Cl. 310—236.
Pauldine, Eugene E. Curling iron having detachable curling tube. 3,135,269, 6–2–64, Cl. 132—33.
Paulding, Herbert L., and R. T. Yu, to Dow Jones & Co., Inc. Printing telegraph systems. 3,154,635, 10–27–64, Cl. 178—4.1.
Paule, Wilhelm, and A. Lichtenberger, to Robert Bosch, G.m.b.H. Light control arrangement for vehicles. 3,139,-555, 6–30–64, Cl. 315—82.
Pauler, Charles J., and J. F. Schmitz, to Whirlpool Corp. Vacuum cleaner nozzle. 3,120,021, 2–4–64, Cl. 15—377.
Pauler, Charles J., and G. A. Westergren, to Whirlpool Corp. Bag changer for use in vacuum cleaner. 3,132,932, 5–12–64, Cl. 55—376.
Paules, Clair E., to Baker Perkins Inc. Jacketed dough mixer. 3,126,054, 3–24–64, Cl. 165—109.
Pauley, Robert P., and O. T. Ralph. Method of filling and loading containers. 3,142,396, 7–28–64, Cl. 214—152.
Pauli, Frank G., Jr.: *See*—
Stockton, North J., and Pauli. 3,131,453.
Pauli, Fritz K.: *See*—
Schlidt, Rudolf H., and Pauli. 3,126,821.
Pauli, Julius A., to Lockheed Aircraft Corp. Petal type door for cargo aircraft. 3,128,068, 4–7–64, Cl. 244—129.
Paulik, Ferenc and J., and L. Erdey. Apparatus for the determination of the evaporation curve for liquids by the thermogravimetric method. 3,135,107, 6–2–64, Cl. 73—17.
Paulik, Jenö: *See*—
Paulik, Ferenc and J., and Erdey. 3,135,107.

Paulini, Harry H. J. Flag and staff novelty item. 3,138,-249, 6–23–64, Cl. 206—47.
Paulis, Bernard, and J. Radder, to Shell Oil Co. Propylene polymerization. 3,137,739, 6–16–64, Cl. 260—683.15.
Paull, Graham J.: *See*—
Page-Roberts, Rhodes, and Paull. 3,118,490.
Paull, Marvin C., to Bell Telephone Laboratories, Inc. Switching network control system. 3,129,407, 4–14–64, Cl. 340—147.
Paull, Raymond C., to Radio Corp. of America. Cathode grid assembly for electron gun. 3,145,318, 8–18–64, Cl. 313—82.
Paull, Stephen, to United States of America, National Aeronautics and Space Administration. Variable frequency magnetic multivibrator. 3,128,389, 4–7–64, Cl. 307—88.
Paull, Stephen, to United States of America, National Aeronautics and Space Administration. Variable frequency magnetic multivibrator. 3,150,329, 9–22–64, Cl. 331—113.
Paullus, Clarence L., and W. M. Allen, to Merck & Co., Inc. Aerosol device. 3,157,179, 11–17–64, Cl. 128—211.
Paulsen, Harold A. Combination hallway and disappearing dressing room. Re. 25,690, 11–24–64, Cl. 20—2.
Paulsen, Jean F., to Societe Luxembourgeoise de Brevets et de Participations. Dynamic dampers. 3,117,467, 1–14–64, Cl. 74—574.
Paulsen, Jean F., to Societe Luxembourgeoise de Brevets et de Participations. Compression springs made of an elastomer. 3,118,659, 1–21–64, Cl. 267—35.
Paulsen, Jean F., to Ste Luxembourgeoise de Brevets et de Participations. Devices for forming a resilient connection between two parts of structures. 3,120,382, 2–4–64, Cl. 267—63.
Paulsen, Jean F., to Luxembourgeoise de Brevets et de Participations. Resilient connecting devices. 3,154,273, 10–27–64, Cl. 248—22.
Paulsen, Paul L.: *See*—
Albertson, Walter H., L. J., Paulsen, and Richter. 3,141,-587.
Paulsen, Reidar, deceased (S. D. Paulsen, heir of the estate of said R. Paulsen). Luminous coating method, composition and decalcomania. 3,120,448, 2–4–64, Cl. 117—33.5.
Paulsen, Robert C.: *See*—
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Paulsen, Robert C., and A. A. Kahn, to International Business Machines Corp. Logical transfer circuit. 3,163,771, 12–29–64, Cl. 307—88.
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Johnson, Edwin W., and Paulson. 3,137,485.
Paulson, Clifford W.: *See*—
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Paulson, Harold E. Drive-in packet. 3,147,789, 9–8–64, Cl. 150—35.
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Paulson, Loree A. D.: *See*—
Kurt, Ewald H., Lewis, and Paulson. 3,155,171.
Paulson, Paul G. Sign holders. 3,143,817, 8–11–64, Cl. 40—125.
Paulson, Roy W.: *See*—
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Paulson, William A., to Barber-Colman Co. Radio frequency discriminator circuit. 3,127,563, 3–31–64, Cl. 325—466.
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Paulssen, Walter A., to Manning, Maxwell & Moore, Inc. Wheel chock locking devicet for rail vehicles. 3,132,722, 5–12–64, Cl. 188—36.
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Hansel, Paul G., Richter, and Paulstich. 3,157,878.
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Paulus, Edward F., to Roto Actuator Corp. Oscillating hydraulic motor having compressible sealing means. 3,131,610, 5–5–64, Cl. 92—125.
Paulus, Henry G. Cap applicator. 3,129,543, 4–21–64, Cl. 53—67.
Pauly, Bruce H., to The Weatherhead Co. Two volume pump. 3,152,555, 10–13–64, Cl. 103—173.
Pauri, Carlo A.: *See*—
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Paustian, John E., S. Mutnick, and M. M. Fein, to Thiokol Chemical Corp. Bis(c-alkylhydrozino) decarboranes and method of making same. 3,158,651, 11–24–64, Cl. 260—564.
Pauwels, Constant, to Pauwels & DeRidder P.V.B.A., Firma. Device with movable panels for closing and opening passages, more especially in horizontal partition walls. 3,120,-034, 2–4–64, Cl. 20—19.
Pauwels & DeRidder P.V.B.A., Firma: *See*—
Pauwels, Constant. 3,120,034.
Pavek, Miloslav, and J. Havlas, to Sdruzeni podniku textilniho strojirenstvi. Device for separating the fibres and conveying the separated fibres. 3,127,730, 4–7–64, Cl. 57—58.91.
Pavelic, Vjekoslav, and R. W. Goeldner, to Aqua-Chem, Inc. Flash chamber structure. 3,161,558, 12–15–64, Cl. 159—2.
Pavicevic, Strahinja S. Resilient split core and shell for moulding apparatus. 3,158,907, 12–1–64, Cl. 18—45.
Paviso, Ronald D., to The Marquardt Corp. Cryogenic glass-to-metal seal. 3,151,763, 10–6–64, Cl. 220—46.
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Pavlecka, John. Interlocked panel structure. 3,160,245, 12–8–64, Cl. 189—34.
Pavlecka, John. Linear interlocking key or spline. 3,160,249, 12–8–64, Cl. 189—36.
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Sterling, George B., and Pawloski. 3,122,562.
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Sterling, George B., and Pawloski. 3,134,788.
Pawloski, Chester E., to The Dow Chemical Co. Propynyl p-phenylene diamines. 3,121,116, 2–11–64, Cl. 260—577.
Pawloski, Chester E., to The Dow Chemical Co. Propynyl p-nitroanilines. 3,121,745, 2–18–64, Cl. 260—577.
Pawloski, Chester E., to The Dow Chemical Co. Propynyl *a*-naphthylamines. 3,121,746, 2–18–64, Cl. 260—577.
Pawloski, Chester E., and G. B. Sterling, to The Dow Chemical Co. Esters of 4,7-dihydro-1,3-dioxepin-2-acetic acid. 3,135,768, 6–2–64, Cl. 260—338.
Pawloski, Chester E., to The Dow Chemical Co. N-(2-propynyl) o-bromoaniline. 3,149,160, 9–15–64, Cl. 260—577.
Pawlowski, Robert J., to Electro-Voice, Inc. Loudspeaker system. 3,125,181, 3–17–64, Cl. 181—31.
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Paxson, Edward: *See*—
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Paxson, Gordon D., Jr., to United States of America, Atomic Energy Commission. Fractionating column product collector control. 3,124,172, 3–10–64, Cl. 141—130.
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Paxton, Kenneth P.: *See*—
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Paxton, Ralph R., P. J. Sorg, and H. T. Hulburt, to Pure Carbon Co., Inc. Electrical contact brush with a corrosion resistant shunt connection. 3,148,295, 9–8–64, Cl. 310—249.
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Paxton, Stanley K. and K. P., and Evans. 3,126,685.
Paxton, Stanley K. and K. P., and E. E. Evans, to Paxton Sales Corp. Machine for simultaneously closing top and bottom of cardboard carton. 3,126,685, 3–31–64, Cl. 53—138.
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Payne, Albert E. Sheet material stamping die. 3,129,744, 4–21–64, Cl. 153—2.
Payne, Alford R. Amusement device comprising an eccentrically rotatable ball-like object. 3,157,961, 11–24–64, Cl. 46—51.
Payne, Arthur R.: *See*—
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Payne, Elmer C., to Sylvania Electric Products Inc. Electroluminescent lamp. 3,154,712, 10–27–64, Cl. 313—108.
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Payne, Harry R., to The Seeburg Corp. Dispensing mechanism with motor driven regulator. 3,151,770, 10–6–64, Cl. 221—15.
Payne, Harry R., to The Seeburg Corp. Dispensing mechanism for articles in staggered stack. 3,151,772, 10–6–64, Cl. 221—67.

Payne, Harry R., to The Seeburg Corp. Chain and common bar mechanism for superimposed vending machine. 3,151,774, 10–6–64, Cl. 221—125.

Payne, James A., to United States of America, Army. Track maintenance tool. 3,150,859, 9–29–64, Cl. 254—51.

Payne, James T., to Ranco Inc. Control apparatus. 3,121,338, 2–18–64, Cl. 74—2.

Payne, James T., to Standard-Thomson Corp. Fluid control apparatus. 3,146,948, 9–1–64, Cl. 236—93.

Payne, John, to Monsanto Chemicals Ltd. Production of shell moulds. 3,148,422, 9–15–64, Cl. 22—196.

Payne, John H., Jr. Wheel alignment gage. 3,128,561, 4–14–64, Cl. 33—203.2.

Payne, John W., to Socony Mobil Oil Co. Rejuvenation of platinum catalyst. 3,140,263, 7–7–64, Cl. 252—412.

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Payne, William H., to Dresser Industries, Inc. Poppet-type valve construction. 3,124,152, 3–10–64, Cl. 137—269.5.

Payne, William H., and R. E. Henry, to Dresser Operations, Inc. Expansion engine. 3,150,565, 9–29–64, Cl. 91—280.

Paynter, Allison L., and C. W. Gipe, to The Ryan Aeronautical Co. Means and method for explosive forming materials at high temperatures. 3,128,732, 4–14–64, Cl. 113—44.

Paynter, Donald A., to General Electric Co. Voltage control circuits. 3,156,860, 11–10–64, Cl. 321—18.

Paynter, Donald A., and G. Jansen, to General Electric Co. Transmit-receiver switch utilizing resonant circuits and oppositely poled parallel diodes for isolation. 3,117,241, 1–7–64, Cl. 307—88.5.

Paysen, James Z., and G. T. Trifonoff, to The Boeing Co. Aircraft nose gear tow means for catapult launching. 3,155,345, 11–3–64, Cl. 244—63.

Payson, Peter, to Crucible Steel Co. of America. Ultra high strength steel. 3,148,980, 9–15–64, Cl. 75—126.

Payton, Don E., and W. S. Pattison, to General Electric Co. Anti-tip device. 3,150,905, 9–29–64, Cl. 312—276.

Payton, Willis E. Apparatus for constructing metallic bins. 3,131,908, 5–5–64, Cl. 254—89.

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Peacock, Finley C. Hook ring attachment. 3,160,304, 12–8–64, Cl. 215—100.

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Pearce, David A., to Chemagro Corp. Method of making a granular pesticide composition containing a liquid pesticide. 3,137,618, 6–16–64, Cl. 167—42.

Pearce, David A., to Chemagro Corp. Method for making pesticide composition of a pesticide-resin mixture coated on granules. 3,143,460, 8–4–64, Cl. 167—42.

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Pearce, George C.: *See*—
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Pearce, George C., J. L. Evans, M. E. Fry, and F. L. Milburn, to General Motors Corp. Domestic cooking appliance. 3,157,175, 11–17–64, Cl. 126—37.

Pearce, George C., J. L. Evans, M. E. Fry, and F. L. Milburn, to General Motors Corp. Cooking range. 3,157,176, 11–17–64, Cl. 126—37.

Pearce, Lewis C., to The Standard Envelope Mfg. Co. Blank forming machine and method of die cutting blanks. 3,129,622, 4–21–64, Cl. 83—36.

Pearce, Norman H., to The Distillers Co. Ltd. Production of alcohols. 3,157,705, 11–17–64, Cl. 260—631.

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Pearcy, James C., to Halliburton Co. Methods and apparatus for testing wells. 3,152,639, 10–13–64, Cl. 166—3.

Pearl, Bertram A., and E. Newman, to Pyrotenax Ltd. Means for applying end seals to electric cables. 3,137,064, 6–16–64, Cl. 29—270.

Pearl, Curt C., to Equitable Paper Bag, Co. Inc. Air sickness bag. 3,149,771, 9–22–64, Cl. 229—55.

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Pearl, John J., to United States Plywood Corp. Scarfed veneer end joining apparatus. 3,131,737, 5–5–64, Cl. 144—281.

Pearl, John J., to United States Pylwood Corp. Veneer end scarfing machine. 3,147,782, 9–8–64, Cl. 144—124.

Pearlman, Albert. Vehicle with expandible cargo space in top. 3,146,018, 8–25–64, Cl. 296—26.

Pearlman, Harry, and L. A. Hanson, to United States of America, Atomic Energy Commission. Separation of an actinide metal from an alloy. 3,158,468, 11–24–64, Cl. 75—84.1.

Pearlman, Martin B. Devices for use in the treatment of exhaust gases of internal combustion engines. 3,142,150, 7–28–64, Cl. 60—30.

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Pearsall, Cortland S., to Varian Associates. Metalized ceramic for bonding to metals. 3,132,044, 5–5–64, Cl. 117—123.

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Pearson, Arthur S., to United-Carr Fastener Corp. Fastener clip device. 3,122,386, 2–25–64, Cl. 287—93.

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Pearson, Charles W., to General Electric Co. Electric incandescent lamp with a rectifying diode mounted within the lamp base. 3,148,305, 9–8–64, Cl. 315—51.

Pearson, Clarence E., and H. Hansen. Combination wax bullet loader. 3,146,660, 9–1–64, Cl. 86—23.

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Pearson, Eugene W., to Pacific Industrial Mfg. Co. Pivotal drive connection. 3,163,105, 12–29–64, Cl. 100—214.

Pearson, Eugene W., to Pacific Industrial Mfg. Co. Precision adjustable control valve assembly. 3,163,175, 12–29–64, Cl. 137—315.

Pearson, Eugene W., and R. A. Richardson, to Pacific Industrial Mfg. Co. Control means for series connected cylinder drive assemblies. 3,143,924, 8–11–64, Cl. 91—171.

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Pearson, Eugene W., and R. A. Richardson, to Pacific Industrial Mfg. Co. Shear attachment for press brakes and the like. 3,154,989, 11–3–64, Cl. 83—390.
Pearson, Eugene W., and R. A. Richardson, to Pacific Industrial Mfg. Co. Knife adjustment control means for a shear machine. 3,163,072, 12–29–64, Cl. 83—639.
Pearson, George. Self-feeding water heaters and boilers. 3,139,084, 6–30–64, Cl. 126—366.
Pearson, Harold E. Garden planters. 3,137,095, 6–16–64, Cl. 47—33.
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Pearson, Leonard, to The Babcock & Wilcox Co. Pulverizing coal firing method and system for blast furnace. 3,150,-962, 9–29–64, Cl. 75—42.
Pearson, Lincoln E., to Crompton & Knowles Corp. Machine for converting a tow into a fibrous web. 3,126,584, 3–31–64, Cl. 19—155.
Pearson, Lincoln E., to Crompton & Knowles Corp. Method of depositing fibers from one tow onto anther tow incident to forming a nonwoven web. 3,128,507, 4–14–64, Cl. 19—155.
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Pearson, Paul A. Transformer. 3,146,417, 8–25–64, Cl. 336—69.
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Pearson, Paul E., Jr., and D. A. Reynick, to The Bendix Corp. Temperature control system with variable dynamic response. 3,123,974, 3–10–64, Cl. 60—39.28.
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Pearson, Tillmon H., and J. K. Presswood, to Ethyl Corp. Ethylene polymerization with a trialkyl boron-trialkyl aluminum catalyst. 3,160,672, 12–8–64, Cl. 260—683.15.
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Pease, Lionel. Power takeoff unit. 3,128,860, 4–14–64, Cl. 192—4.
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Pedersen, Mathias, to American Machine and Foundry Co. Button stitching machine. 3,140,679, 7–14–64, Cl. 112—110.
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Kritzer, Richard W. 3,151,671.
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Perkins, Charles H., to Robertshaw Controls Co. Safety closure for pressure indicating gauge. 3,138,028, 6–23–64, Cl. 73—416.
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Perkins, Glenn H., to Oxford Paper Co. Coating compositions. 3,125,455, 3–17–64, Cl. 106—154.
Perkins, Gordon O., and G. J. Emerick, to Federal Pacific Electric Co. Circuit breakers incorporating a magnetic arc chute with an electromagnet. 3,138,687, 6–23–64, Cl. 200—147.
Perkins, Herbert M., and W. Chakeres, to Thermal Controls, Inc. Thermal time-delay relay. 3,129,306, 4–14–64, Cl. 200—122.
Perkins, Herbert T., to Bell & Howell Co. Remote control for a projector. 3,161,884, 12–15–64, Cl. 352—179.
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Perkins, James M., P. F. Graf, and F. R. Braun, to United States of America, Navy. Expendable frangible connector. 3,136,842, 6–9–64, Cl. 174—88.
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Perkins, Lee E., to Halliburton Co. Well packers. 3,163,225, 12–29–64, Cl. 166—123.
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Perkins, Richard E., to Sylvania Electric Products Inc. Method of fabricating mercury-wetted switching devices. 3,147,538, 9–8–64, Cl. 29—155.5.
Perkins, Richard E., to Electronic Coin Processing Corp. Separator for coins. 3,147,759, 9–8–64, Cl. 133—3.
Perkins, Richard E., to Electronic Coin Processing Corp. Coin separator. 3,155,101, 11–3–64, Cl. 133—3.
Perkins, Roderic B., Jr., and R. G. Weisz, to Standard Oil Co. Reaction of hydrocarbon resins with maleic anhydride. 3,161,620, 12–15–64, Cl. 260—78.4.
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Perkins, Thomas K.: *See—*
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Perkins, Warren E., to Perkins Pipe Linings, Inc. Rate of flow indicator for mortar. 3,119,263, 1–28–64, Cl. 73—231.
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Perl, Richard L.: *See—*
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Perl, Richard L., to The Tappan Co. Dishwasher. 3,117,582, 1–14–64, Cl. 134—94.
Perl, Richard L., to The Tappan Co. Electrically heated cooking assembly. 3,140,388, 7–7–64, Cl. 219—435.
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Perley, Richmond, to United Aircraft Corp. Magnetic tape to perforated tape digital information converter. 3,129,409, 4–14–64, Cl. 340—172.5.
Perlis, David B. Cycling valve. 3,147,770, 9–8–64, Cl. 137—624.13.
Perlman, David, to Collins Radio Co. Keyed filter employing a crystal as integrating element. 3,146,400, 8–25–64, Cl. 328—27.
Perlman, Joseph, to Auto-Flo Corp. Power humidifiers. 3,155,747, 11–3–64, Cl. 261—29.
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Zastera, Rudolph J., Weir, and Pernini. 3,129,441.
Pernini, Henry M., to United States of America, Army. Extractor mechanism for firearms. 3,120,071, 2–4–64, Cl. 42—25.
Perolini, Marcel C., to Societe Generale de Constructions Electriques et Mecaniques (Alsthom). High voltage electrical circuit-breakers. 3,124,669, 3–10–64, Cl. 200—48.
Perotte, Laurence F., to General Electric Co. Method of providing a high resistance insulation coating for a conductor in a sheath. 3,121,038, 2–11–64, Cl. 156—48.
Perotto, Pier G., to Olivetti, Ing. C., & C., S.p.A. Checking device for record processing machines. 3,136,979, 6–9–64, Cl. 340—172.5.
Perotto, Pier G., to Olivetti, Ing., C., & C., S.p.A. Old balance pick-up device for an accounting machine. 3,146,342, 8–25–64, Cl. 235—61.11.
Perovich, Batris W. Pipe lining machine. 3,159,895, 12–8–64, Cl. 25—38.
Perrault, Marcel, to Laboratoires Laroche Navarron. Therapeutic composition for the treatment of disturbances of the water metabolism characterized by an insufficient elimination of water. 3,155,579, 11–3–64, Cl. 167—65.
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Perrenoud, Jean-Pierre. Diagnostic and medicating capsule and the method of use. 3,118,439, 1–21–64, Cl. 128—2.
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Perret, Marcel, to Trefileries et Laminoiro de Precision Gilby-Fodor (Societe Anonyme). Hydraulic devices for removing tubes drawn on a long mandrel. 3,137,384, 6–16–64, Cl. 205—7.
Perri, Frank B., and F. C. Du Grenier, to The Seeburg Corp. Vending machine having a plurality of dispensing compartments. 3,146,908, 9–1–64, Cl. 221—124.
Perrier, Robert, and J. Combard. Jet propulsion apparatus for watercrafts. 3,137,266, 6–16–64, Cl. 115—12.
Perrin, Felix, to Fabrique de Machines Perrin freres S.A. Quick-action chuck for drilling and milling tools. 3,152,811, 10–13–64, Cl. 279—82.
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Perrin, Jack L., to Towlsaver, Inc. Multiple roll dispenser. 3,126,164, 3–24–64, Cl. 242—55.53.
Perrin, Jacques J. F. Control system for the steering of an aerodyne and chiefly of a glider. 3,120,935, 2–11–64, Cl. 244—90.
Perrin, Jean A., to Societe le Carbone-Lorraine. Electrode systems for electric arcs. 3,163,796, 12–29–64, Cl. 314—45.
Perrin, Joe F. Lemon slice squeezer. 3,133,493, 5–19–64, Cl. 100—211.
Perrin, Tom S., and D. H. Strong, to Diamond Alkali Co. Process for chromizing ferrous metal objects. 3,152,007, 10–6–64. Cl. 117—107.2.
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Perrins, Allen R., and E. W. Vaughan, to The Superior Electric Co. Sensing circuit having a unidirectional, reversible polarity output signal. 3,152,300, 10–6–64, Cl. 323—75.
Perrins, Lyle E., to Imperial Chemical Industries Ltd. Gramaphone records of vinyl chloride polymers with quaternary pyridinium compounds as anti-static agents. 3,150,120, 9–22–64, Cl. 260—87.1.
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Perron, Yvon G., and L. C. Cheney, to Beecham Research Laboratories, Ltd. Substituted 6-ureidopenicillanic acids and salts thereof. 3,118,877, 1–21–64, Cl. 260—239.1.
Perron, Yvon G., and L. B. Crast, Jr., to Bristol-Myers Co. Borohydride reduction of ketopenicillins. 3,127,394, 3–31–64, Cl. 260—239.1.
Perrot, Arnold. Slide mounting for transparencies. 3,133,368, 5–19–64, Cl. 40—152.
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Perry, D. Cameron, and H. Tanczyn, to Armco Steel Corp. Heat hardenable chromium-nickel-aluminum steel. 3,151,978, 10–6–64, Cl. 75—124.
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Perry, Frederick G., to Texas Instruments Co. Snap action thermostatic switches. 3,148,256, 9–8–64, Cl. 200—122.
Perry, George R., to Detroit Aluminum & Brass Corp. Packaging of split ring bearings. 3,138,247, 6–23–64, Cl. 206—46.
Perry, Jack H., to General Motors Corp. Synchronizing the states of a bistable multivibrator to high and low amplitude pulses. 3,144,614, 8–11–64, Cl. 328—206.
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Perry, John T., and C. J. Kawiecki, to Joslyn Mfg. and Supply Co. Vacuum variable capacitor. 3,161,812, 12–15–64, Cl. 317—245.
Perry, Joseph A., Jr., to Cherry-Burrell Corp. Level indicating device and system. 3,161,051, 12–15–64, Cl. 73—299.
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Perry, Wilson W. Sheet clamping means for printing device. 3,123,001, 3–3–64, Cl. 101—415.1.
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Perry, Winthrop L., to Abbott Machine Co., Inc. Knotter operating mechanism. 3,152,821, 10–13–64, Cl. 289—18.
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Perryman, John S., to Curtiss-Wright Corp. Spring clutch and control means. 3,125,889, 3–24–64, Cl. 74—111.
Perschy, James A. Magnetostrictive stability device. 3,145,369, 8–18–64, Cl. 340—173.
Persinger, Laverne O. and M. L., to Big Boy Mfg. Co., a division of Seidelhuber Steel Rolling Mills Corp. Barbecue assembly. 3,121,386, 2–18–64, Cl. 99—443.

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Persons, Robert C., to Persons-Majestic Mfg. Co. Basket for handle bar. 3,140,026, 7–7–64, Cl. 224—36.
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Persson, David R., to Decca Ltd. Waveguide choke coupling having face of joint interrupted by orthogonally intersecting choke grooves to reduce unwanted mode resonance. 3,155,923, 11–3–64, Cl. 333—7.
Persson, John A., to Union Carbide Corp. Bus system and apparatus for reducing the reactance of electric furnaces. 3,128,411, 4–7–64, Cl. 314—31.
Persson, Karl-Birger, to Radio Corp. of America. Ceramic to metal seal. 3,125,698, 3–17–64, Cl. 313—220.
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Persson, Erik O., to N. T. Neldas. Ground borers. 3,117,634, 1–14–64, Cl. 175—94.
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Persson, Per O. R., and O. E. R. Nordstrom, to Telefonaktiebolaget L M Ericsson. Telephone instruments. 3,133,163, 5–12–64, Cl. 179—179.
Persson, Tage. Deburring and chamfering machine. 3,125,934, 3–24–64, Cl. 90—18.
Persson-Melin, Signe H. Board for panels and similar covering material. 3,131,442, 5–5–64, Cl. 20—91.
Persyn, Charles L., to Tidewater Oil Co. Fluid coking with cracking of more refractory oil in the transfer line. 3,162,593, 12–22–64, Cl. 208—53.
Pertusio, Rene F., and A. Berman, to Kaman Aircraft Corp. Rotor blade retention means. 3,129,766, 4–21–64, Cl. 170—160.51.
Pertwee, Kenneth S. G., to General Electric Co. Tungsten tube manufacture. 3,127,641, 4–7–64, Cl. 22—204.
Pesak, Frank J., to North American Aviation, Inc. Forming method and means. 3,160,130, 12–8–64, Cl. 113—44.
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Petee, Lorenz D., to Small Business Administration. Method and apparatus for making paper tubes. 3,134,310, 5–26–64, Cl. 93—81.
Peter, Gilbert. Conveyors for vehicles mounted on wheels. 3,120,196, 2–4–64, Cl. 104—172.
Peter, Gottfried, to Sulzer Freres, S.A. Desalting a forced flow steam generator. 3,127,747, 4–7–64, Cl. 60—67.
Peter, Julius, K.-L. Schmidt, and H. Bartl, to Farbenfabriken Bayer Aktiengesellschaft. Polyurethane plastics. 3,130,175, 4–21–64, Cl. 260—45.4.
Petereit, Lothar, and A. Koecher, to Siemag, Siegener Maschinenbau G.m.b.H. Rolling mill. 3,152,494, 10–13–64, Cl. 80—31.1.
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Petermann, Ursula A., and O. Allen. Article of neckwear. 3,128,470, 4–14–64, Cl. 2—145.
Peters, Adolph T., to The Dow Chemical Co. Degassing magnesium-base alloy. 3,123,467, 3–3–64, Cl. 75—93.
Peter's Bag Corp.: *See—*
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Peters, Charles J., to Sylvania Electric Products Inc. Magnetic tape transducer. 3,152,225, 10–6–64, Cl. 179—100.2.
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Peters, Edward L., to United States of America, Navy. Temperature shield for hydrobarophone. 3,162,051, 12–22–64, Cl. 73—431.
Peters, Edwin E., to Bonney Forge & Tool Works. Ratchet wrench. 3,145,594, 8–25–64, Cl. 81—63.
Peters, Edwin F., to Standard Oil Co. Process of applying an aluminum oxide coating from a hydrocarbon aluminum compound. 3,119,710, 1–28–64, Cl. 117—62.1.
Peters, Frank M., and J. De Lury, to Conch International Methane Ltd. Liquefaction of natural gas. 3,162,519, 12–22–64, Cl. 62—23.
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Peters, Grace A., to American Cyanamid Co. Secondary organophosphine sulfides and the preparation thereof. 3,159,667, 12–1–64, Cl. 260—481.
Peters, Harlan J., ½ to L. W. Bowling. Cementitious slab and means and method for forming same with lines of weakness. 3,132,571, 5–12–64, Cl. 94—22.
Peters, James B. Portable lathe. 3,141,365, 7–21–64, Cl. 82—4.
Peters, John L. Mass spectrometer leak detector including a novel repeller-heater assembly. 3,155,826, 11–3–64, Cl. 250—41.9.
Peters, Kurt. Process for separating zirconium and hafnium values. 3,127,236, 3–31–64, Cl. 23—23.
Peters, Kurt. Metal acid salts of polybasic organic acids. 3,137,717, 6–16–64, Cl. 260—448.
Peters, Lowell E. Side camming balance spring lock. 3,146,501, 9–1–64, Cl. 20—42.
Peters, Lowell E. Balance spring mechanism. 3,157,917, 11–24–64, Cl. 20—42.
Peters Machinery Co.: *See—*
Fay, Rudolph J. 3,119,352.
Peters, Melville F., 50% to J. J. Mascuch. Flexible assemblies for fluid bearing lines. 3,133,754, 5–19–64, Cl. 285—165.
Peters, Melville F. Expansion tank. 3,137,317, 6–16–64, Cl. 138—30.
Peters, Melville F., 50% to J. J. Mascuch. Pressure differential measuring devices. 3,152,477, 10–13–64, Cl. 73—410.
Peters, Melville F. Bellows sealing and securing device. 3,159,182, 12–1–64, Cl. 138—30.
Peters, Melville F. Surge attenuating devices. 3,162,213, 12–22–64, Cl. 138—30.
Peters, Pete J., and P. V. De Luca. Coupling device. 3,124,971, 3–17–64, Cl. 74—579.
Peters, Robert D., and J. F. Uckotter, to The Cincinnati Milling Machine Co. Machine tool loader. 3,127,716, 4–7–64, Cl. 51—215.
Peters & Russell, Inc.: *See—*
Russell, Linus E. 3,149,576.
Peters, Timothy V., Jr., to Polythane Corp. Method and apparatus for wet spinning elastomeric polymers into a fused multifilament fiber. 3,161,706, 12–15–64, Cl. 264—103.
Peters, Vernon G., to Viking Pump Co. Pump. 3,152,251, 10–13–64, Cl. 103—126.
Peters, Vernon M. Inertia operated bailer dump valve. 3,154,149, 10–27–64, Cl. 166—169.
Peters, Walter E., and L. Mills, to The English Electric Co. Ltd. Header type tubular heat exchanger. 3,155,158, 11–3–64, Cl. 165—161.
Peters, William H.: *See—*
Sterrett, Vance C., and Peters. 3,145,728.
Petersen, Albert D., to Charles Grunsky. Method and apparatus for changing gas meters. 3,148,690, 9–15–64, Cl. 137—15.
Petersen, Anita E.: *See—*
Benetti, John G. 3,152,412.
Lanum, William J. 3,133,725.
Lanum, William J. 3,137,765.
Petersen, Gerald A. 3,136,844.
Petersen, Gerald A. 3,137,352.
Troeppl, William M. 3,136,077.
Petersen, Arnold C.: *See—*
Baudhuin, George J., and Petersen. 3,161,309.
Petersen, Christian H. Insulated ice fishing pad. 3,134,188, 5–26–64, Cl. 43—17.

Petersen, Gerald A.: *See*—
Benetti, John G. 3,152,412.
Lanum, William J. 3,133,725.
Lanum, William J. 3,137,765.
Troeppl, William M. 3,136,077.
Petersen, Gerald A., ½ to A. E. Petersen. Stranded cable joint. 3,136,844, 6–9–64, Cl. 174—90.
Petersen, Gerald A., ½ to A. E. Petersen. Shank protector for earth digging tool. 3,137,352, 6–16–64, Cl. 172—713.
Petersen Industries, Inc.: *See*—
Petersen, John E., and Lawson. 3,119,505.
Petersen, James M.: *See*—
Reed, David D., Petersen, and Kluge. 3,158,641.
Reed, David D., Petersen, and Kluge. 3,162,667.
Reed, David D., Petersen, and Kluge. 3,162,668.
Reed, David D., Petersen, and Kluge. 3,162,669.
Petersen, James M., D. D. Reed, H. D. Kluge, deceased (by H. E. Kluge, administratrix), to Texaco Inc. 5-hydroxy-6-halo-3-oxahexyl hydrocarbonthiophosphonate and manufacture. 3,141,901, 7–21–64. Cl. 260—461.
Petersen, James M., D. D. Reed, and H. D. Kluge (deceased, by H. E. Kluge, administratrix), to Texaco Inc. Dialkyl hydrocarbonthiophosphonoxyhydroxyhexahydrophthalate. 3,162,670, 12–22–64, Cl. 260—461.
Petersen, James M., D. D. Reed, and H. D. Kluge (deceased, by H. E. Kluge, administratrix), to Texaco Inc. Hydrocarbylchalcahydroxyoxahexyl hydrocarbonthiophosphonates. 3,162,671, 12–22–64, Cl. 260—461.
Petersen, John E., and O. C. Lawson, to Petersen Industries, Inc. Loading apparatus. 3,119,505, 1–28–64, Cl. 214—658.
Petersen, Kars. Furniture anchoring cup. 3,126,666, 3–31–64, Cl. 45—137.
Petersen, Paul S.: *See*—
Skoglund, Douglas M., Petersen, and Grimm. 3,121,357.
Petersen, Povl V., N. O. Lassen, and T. O. Holm, to Kefalas, A/S. 2-substituted-9-(3′-aminopropylidene)-thiaxanthene amine exchange reaction. 3,149,103, 9–15–64, Cl. 260—240.
Petersen, Raymond C.: *See*—
Finkelstein, Manuel, Ross, and Petersen. 3,118,939.
Petersen, Robert E. A., to E. I. du Pont de Nemours and Co. Coagulation of chloroprene polymer latices and isolation of the polymer therefrom. 3,160,620, 12–8–64, Cl. 260—92.3.
Petersen, Siegfried: *See*—
Herlinger, Heinz, Petersen, Tietze, Hoffmeister, and Wirth. 3,163,646.
Wagner, Annemarie, and Petersen. 3,131,079.
Petersen, Siegfried, E. Tietze, F. Hoffmeister, and W. Wirth, to Farbenfabriken Bayer Aktiengesellschaft. Heterocyclic esters of 3-amino-quinazolone-(4) and 3-aminobenzotriazinone-(4). 3,120,523, 2–4–64, Cl. 260—248.
Petersen, Sigrud R.: *See*—
Porter, Jefferson D., and Petersen. 3,133,215.
Petersen, Thorvald, to Reed Mfg. Co. Pipe cutter. 3,145,469, 8–25–64, Cl. 30—102.
Petersen, Thorvald K., and G. A. Thompson, to Douglas Aircraft Co., Inc. Air film supported weighing jack. 3,119,598, 1–28–64, Cl. 254—93.
Petersen, William, and L. B. Wallerstein, to The American White Cross Laboratories, Inc. Surgical dressing packaging. 3.140.572, 7–14–64, Cl. 53—28.
Peterson, A. W.: *See*—
Legocki, Joe E. 3,139,196.
Peterson, Adolphe C. Convertible propulsion system. 3,121,414, 2–18–64, Cl. 114—66.5.
Peterson, Adolphe C. Unit charger for combustion engines. 3,121,991, 2–25–64, Cl. 60—13.
Peterson, Andrew M. Pitless adapter. 3,154,148, 10–27–64, Cl. 166—88.
Peterson, Arnold E. Combination playpen and crib. 3,127,620, 4–7–64, Cl. 5—99.
Peterson, Bertil E., to Cardwell Westinghouse Co. Movable coupler support for draft rigging arrangements. 3,159,382, 12–1–64, Cl. 213—21.
Peterson, C. Lynn, to Peterson Filters & Engineering Co. Filter medium tracking control. 3,120,492, 2–4–64, Cl. 210—401.
Peterson, Carl. Intermittent roller feed. 3,137,428, 6–16–64, Cl. 226—154.
Peterson, Carl A., to Captain Products, Inc. Remote control steering device. 3,131,909, 5–5–64, Cl. 254—175.5.
Peterson, Carl H.: *See*—
Wilson, Willard J., and Peterson. 3,131,520.
Peterson, Carl N.: *See*—
Miller, Kenneth J., Peterson, and Garlasco. 3,132,617.
Peterson, Charles D., to Universal Controls Corp. Check valve unit for a diaphragm type pressure regulator. 3,160,169, 12–8–64, Cl. 137—315.
Peterson, Charles L., to Uarco Inc. Forms burster. 3,146,927, 9–1–64, Cl. 225—100.
Peterson, Charles W., to Baldwin-Lima-Hamilton Corp. High elongation strain gage. 3,124,769, 3–10–64, Cl. 338—2.
Peterson, Dana. Pin fastening device. 3,142,101, 7–28–64, Cl. 24—158.
Peterson, Dana. Hot dog barbecue fork. 3,148,907, 9–15–64, Cl. 294—61.
Peterson, David G. Engine accessory case. 3,129,700, 4–21–64, Cl. 123—56.
Peterson, David G. Engine nacelle. 3,129,906, 4–21–64, Cl. 244—42.
Peterson, Dean M., to Eastman Kodak Co. Flash lamp synchronizing mechanism. 3,139,805, 7–7–64, Cl. 95—11.5.
Peterson, Dean M., F. A. Mindler, and C. E. Pickering, to Eastman Kodak Co. Film metering mechanism. 3,148,605, 9–15–64, Cl. 95—31.
Peterson, Donald H.: *See*—
Kushner, Leonard H., and Peterson. 3,160,244.
Peterson, Earl C., to Permaduc, Inc. Underground self-drying conduit. 3,150,691, 9–29–64, Cl. 138—105.
Peterson, Edward C., to Whirlpool Corp. Surface tension measuring device. 3,150,518, 9–29–64, Cl. 73—53.
Peterson, Edward S., to Automatic Electric Laboratories, Inc. Wireless loudspeaking telephone. 3,124,657, 3–10–64, Cl. 179—81.
Peterson, Edward T., to Birdsboro Corp. Cooling bed. 3,128,651, 4–14–64, Cl. 80—42.
Peterson, Edwin F. Vibrator. 3,134,272, 5–26–64, Cl. 74—606.
Peterson, Edwin F. Vibrator mount. 3,134,564, 5–26–64, Cl. 248—19.
Peterson Electronic Die Co., Inc.: *See*—
Peterson, Everett A. and H. W. 3,144,372.
Peterson, Elmer J.: *See*—
Kotz, Arthur R., Appeldorn, Grieshaber, Peterson, and Giorgini. 3,163,755.
Peterson, Everett A. and H. W. to Peterson Electronic Die Co., Inc. Method of heat and tear sealing polyurethane foam material to thermoplastic film. 3,144,372, 8–11–64, Cl. 156—251.
Peterson Filters & Engineering Co.: *See*—
Peterson, C. Lynn. 3,120,492.
Peterson, Floyd J. Vehicle having laterally adjustable driving units. 3,156,313, 11–10–64, Cl. 180—6.48.
Peterson, Franz, 25% to H. Tomasello. Rotary internal combustion engine. 3,118,432, 1–21–64, Cl. 123—16.
Peterson, George, Jr. Timed electromagnetic oscillating to rotary drive. 3,163,808, 12–29–64, Cl. 318—130.
Peterson, Glenn G. Boat chock lock and fender and mooring cleat. 3,125,058, 3–17–64, Cl. 114—218.
Peterson, Harold W.: *See*—
Peterson, Everett A. and H. W. 3,144,372.
Peterson, Harry L. Fluid actuated control system for power steering of outboard motors and the like. 3,135,095, 6–2–64, Cl. 60—62.
Peterson, Henry B.: *See*—
Neill, Raymond R., and Peterson. 3,158,031.
Peterson, Herbert L., and W. J. Finney. Sampling digital differentiator for amplitude modulated wave. 3,146,424, 8–25–64, Cl. 340—172.5.
Peterson, Herman: *See*—
Peterson, Peter A. 3,119,620.
Peterson, Jessie K.: *See*—
Andersen, Raymond C. 3,128,821.
Kelstrom, Donald G., Andersen, and Peterson. 3,135,296.
Peterson, John J.: *See*—
Gordon, Morris, and Peterson. 3,133,635.
Peterson, John W.: *See*—
Schick, Henry W., and Peterson. 3,151,926.
Peterson, Lawrence W., to Gardner Mfg. Co. Can dispenser. 3,144,113, 8–11–64, Cl. 194—37.
Peterson, Louis H., and A. A. Patchett, to Merck & Co., Inc. Derivatives of cephalosporin C. 3,160,631, 12–8–64, Cl. 260—243.
Peterson, Lowell, to General Mills, Inc. Novel reaction products of polymeric fat acids and polyamines. 3,139,437, 6–30–64, Cl. 260—309.6.
Peterson Mfg. Co.: *See*—
Trautner, Wagn, and Armacost. 3,143,301.
Peterson, Marshall B.: *See*—
Murray, Sylvester F., and Peterson. 3,158,495.
Peterson, Merle H.: *See*—
Wathen, William A. and Peterson. 3,151,430.
Wathen, William A., Peterson, and Koepele. 3,116,582.
Peterson, Merle H., to Massey-Ferguson Inc. Forage wafering machine. 3,153,889, 10–27–64, Cl. 56—1.
Peterson, Merle H., and S. L. Lawrence, to Massey-Ferguson, Inc. Apparatus for wafering hay. 3,158,974, 12–1–64, Cl. 56—1.
Peterson, Merle H., and S. L. Lawrence, to Massey-Ferguson, Inc. Apparatus for wafering hay. 3,158,975, 12–1–64, Cl. 56—1.
Peterson, Miles L., to Hamilton Watch Co. Electromagnet for winding automobile clocks. 3,117,255, 1–7–64, Cl. 317—165.
Peterson, Norman E., and E. E. Courchene, Jr., to Stelma, Inc. Signal distortion monitor. 3,130,268, 4–21–64, Cl. 178—69.
Peterson, Norman E., and E. E. Courchene, Jr., to Digitech, Inc. Decoding system. 3,146,438, 8–25–64, Cl. 340—347.
Peterson, Norman L.: *See*—
Greening, Donald J., Peterson, and Smith. 3,163,812.
Peterson, Norman L., and G. B. Allen, to Allen Electric Co., Inc. Control system for material handlnig. 3,133,233, 5–12–64, Cl. 317—153.
Peterson, Orville N. Refrigeration pump. 3,139,232, 6–30–64, Cl. 230—118.
Peterson, Peter A., to H. Peterson. Toy game. 3,119,620, 1–28–64, Cl. 273—122.
Peterson, Ramon F., to Rudy Mfg. Co. Evaporator-condenser unit. 3,149,479, 9–22–64, Cl. 62—474.
Peterson, Raymond L.: *See*—
Battell, Leslie C., McIlvin, and Peterson. 3,131.432.

Peterson, Reuben G. Building mover with pivotal axle. 3,139,288, 6–30–64, Cl. 280—34.
Peterson, Richard H. Electronic organ. Re. 25,515, 1–21–64, Cl. 84—1.26.
Peterson, Richard H. Electronic organ with automatic means for playing chords and facilitating the learning thereof. 3,118,961, 1–21–64, Cl. 84—1.17.
Peterson, Richard H. Electronic organ obtaining reverberation effects utilizing a light sensitive resistor. 3,119,890, 1–28–64, Cl. 84—1.25.
Peterson, Richard H. Electronic musical instrument including cascaded transistor oscillators. 3,143,712, 8–4–64, Cl. 331—52.
Peterson, Robert E. Vibration and mechanical wave damping. 3,130,700, 4–28–64, Cl. 114—20.
Peterson, Robert G., G. J. Panek, and F. E. Schulte, to International Telephone and Telegraph Corp. Auxiliary locking device for quick disconnect umbilical connector. 3,156,512, 11–10–64, Cl. 339—45.
Peterson, Robert G., G. J. Panek, and F. E. Schulte, to International Telephone and Telegraph Corp. Peripheral tang lock for quick disconnect umbilical connector. 3,156,513, 11–10–64, Cl. 339—45.
Peterson, Robert H.: *See*—
Hansen, George E., Korzenowski, Stone, and Peterson. 3,150,681.
Peterson, Robert M., J. E. Mahlmeister, N. E. Vaughn, W. J. Sanders, and A. C. Williams, to United States of America, Atomic Energy Commission. Calandria type sodium graphite reactor. 3,121,052, 2–11–64, Cl. 176—52.
Peterson, Robert R., to Lord Mfg. Co. Tube form mounting. 3,140,081, 7–7–64, Cl. 267—1.
Peterson, Robert W.: *See*—
Muldoon, William J., and Peterson. 3,126,635.
Peterson, Roland H., and W. K. Asbeck, to Union Carbide Corp. Process for the preparation of vinyl chloride polymer foams. 3,122,515, 2–25–64, Cl. 260—2.5.
Peterson, Ruben O., to The Osborn Mfg. Co. Brush construction. 3,122,766, 3–3–64, Cl. 15—179.
Peterson, Rudolph A., to United States of America, Navy. Screw viscosity pump. 3,135,216, 6–2–64, Cl. 103—89.
Peterson, Russell E., and S. L. Stewart, to United States of America, Atomic Energy Commission. Large fast nuclear reactor. 3,140,237, 7–7–64, Cl. 176—18.
Peterson, Seymour, to Storm Industries, Inc. Egg collecting device. Re. 25,706, 12–29–64, Cl. 198—131.
Peterson, Seymour, to Storm Industries, Inc. Tray means for egg conveyors. 3,155,224, 11–3–64, Cl. 198—131.
Peterson, Seymour, to Storm Industries, Inc. Egg collection device. 3,157,271, 11–17–64, Cl. 198—131.
Peterson, Seymour, and J. W. Granath, to Storm Industries, Inc. Automated poultry ejecting egg nest. 3,157,156, 11–17–64, Cl. 119—45.
Peterson, Stig F. A.: *See*—
Liedberg, Kurt H., Peterson, and Åkerson. 3,118,569.
Peterson, Taft M. Rotary internal combustion engine. 3,121,421, 2–18–64, Cl. 123—16.
Peterson, Thomas F., to Preformed Line Products Co. Rotary drying machine. 3,137,547, 6–16–64, Cl. 34—184.
Peterson, Thomas F., to Preformed Line Products Co. Method and means for utilizing helical armor rods. 3,163,706, 12–29–64, Cl. 174—42.
Peterson, Thomas G. Collapsible portable granary or like container. 3,143,271, 8–4–64, Cl. 229—4.5.
Peterson, Vincent C. J., and W. J. Gilmore, to American Chain & Cable Co. Inc. Splices. 3,120,734, 2–11–64, Cl. 57—142.
Peterson, Vincent C. J., O. J. Bratz, and C. H. Layton, to American Chain & Cable Co. Inc. Method of manufacturing wire rope. 3,130,536, 4–28–64, Cl. 57—161.
Peterson, Vincent C. J., and H. Williams, to American Chain & Cable Co., Inc. Conduit and core element reeling device. 3,148,863, 9–15–64, Cl. 254—175.7.
Peterson, Wendell V.: *See*—
Murray, James E., Guth, Powell, and Peterson. 3,141,330.
Peterson, Willard D., and B. L. Weigand, to American Potash & Chemical Corp. Diphenyl ether derivatives. 3,122,575, 2–25–64, Cl. 260—404.
Peterson, William H., to Pullman Inc. Hydraulic cushion device. 3,148,869, 9–15–64, Cl. 267—1.
Peterson, William H., to Pullman Inc. Maximum energy absorbing hydraulic cushion. 3,150,866, 9–29–64, Cl. 267—1.
Peterson, William M.: *See*—
Olsen, James E., Dutton, and Peterson. 3,135,355.
Peterson, William R.: *See*—
McNay, Ralph E., and Peterson. 3,151,090.
McNay, Ralph E., and Peterson. 3,151,093.
McNay, Ralph E., and Peterson. 3,157,609.
Peterson, William R., and D. A. Walker, to Ashland Oil & Refining Co. Butadiene-styrene-acrylate latex terpolymer. 3,142,654, 7–28–64, Cl. 260—29.7.
Peterson, William R., and R. E. McNay, to Ashland Oil & Refining Co. Freeze resistant latex. 3,151,091, 9–29–64, Cl. 260—27.
Peterson, William R., and R. E. McNay, to Ashland Oil & Refining Co. Freeze resistant latex prepared from a Grindelia extract. 3,151,092, 9–29–64, Cl. 260—27.
Peterson, William R., and R. E. McNay, to Ashland Oil & Refining Co. Grindelia extract for synthetic rubber. 3,151,094, 9–29–64, Cl. 260—27.
Peterson, William R., and R. E. McNay, to Ashland Oil & Refining Co. Acyl amino carboxylic acids as processing aids for synthetic rubber-like polymers. 3,162,612, 12–22–64, Cl. 260—31.2.
Petersons, Oskars: *See*—
Kusters, Norbert L., and Petersons. 3,142,015.
Peterssen, Henry F.: *See*—
Asthelmer, Robert W., and Peterssen. 3,156,823.
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Henning, Sverker A., and Petersson. 3,120,892.
Peth, Paul H.: *See*—
Gray, Milo C., Pope, and Peth. 3,148,486.
Peticolas, Warner L., to Minnesota Mining and Mfg. Co. Process for foaming synthetic polymers. 3,140,266, 7–7–64, Cl. 260—2.5.
Petillat, Georges: *See*—
Guilloteau, René, and Petillat. 3,143,231.
Petisi, Joseph: *See*—
Boothe, James H., and Petisi. 3,148,212.
Petit, A., & Cie., S.A.R.L.: *See*—
Petit, Albert A. P. 3,162,140.
Petit, Albert A. P., to A. Petit & Cie., S.A.R.L. Rotary pump. 3,162,140, 12–22–64, Cl. 103—131.
Petit, Francis W., and E. P. L. Schultz, to The Bristol Co. Telemetering system. 3,147,463, 9–1–64, Cl. 340—206.
Petitto, Albert C., to Foster Grant Co., Inc. Pour spout. 3,154,226, 10–27–64, Cl. 222—528.
Petitto, Albert C., to Foster Grant Co., Inc. Tape dispenser. 3,158,303, 11–24–64, Cl. 225—66.
Petkovich, Frank, and P. E. Carroll, to Falconbridge Nickel Mines Ltd. Agglomeration of ores. 3,158,463, 11–24–64, Cl. 75—5.
Petkwitz, Paul E., to General Motors Corp. Refrigerator with door mounted hydrator. 3,133,427, 5–19–64, Cl. 62—227.
Petlak, Joseph J., and R. Reichhelm. Adjustable nozzle for jet snow melters. 3,136,488, 6–9–64, Cl. 239—502.
Petlak, Joseph J., and R. Reichhelm. Snow and ice melter. 3,140,708, 7–14–64, Cl. 126—343.5.
Petoia, Salvatore R. Pendant support. 3,146,974, 9–1–64, Cl. 244—110.
Petrasek, Donald W.: *See*—
Wheeton, John W., McDanels, Jech, Oldrieve, Petrasek, and Signorelli. 3,138,837.
Petree, Edwyn H., F. E. Robbins, and R. L. Self, to Western Electric Co., Inc. Apparatus for forming leads attached to components. 3,141,492, 7–21–64, Cl. 153—2.
Petree, Troy. Bootless grain elevator. 3,161,279, 12–15–64, Cl. 198—55.
Petrella, Joseph L., and J. S. Strance, to E. W. Bliss Co. Vehicle ground guidance system. 3,132,710, 5–12–64, Cl. 180—79.1.
Petrella, Salvatore J.: *See*—
Petrella, Sabastiano J. and Salvatore J. 3,156,276.
Petrella, Sebastiano J. and Salvatore J. Paring tool for fleshy vegetables. 3,156,276, 11–10–64, Cl. 146—43.
Petrey, Robert C.: *See*—
Painter, Edwin S., Petrey, and Jensen. 3,136,811.
Petri, David A. Racket with resilient surfaces. 3,162,443, 12–22–64, Cl. 273—73.
Petri, Jan E., to The Borne-Lite Corp. Methods for making acrylic sheets. 3,131,242, 4–28–64, Cl. 264—331.
Petrich, Allen B. Boat propulsion and steering apparatus. 3,159,132, 12–1–64, Cl. 114—162.
Petrich, Borti P.: *See*—
Stewart, Raymond M., and Petrich. 3,150,627.
Petrich, John M. Sliding necktie rack. 3,124,253, 3–10–64, Cl. 211—94.
Petrick, Edward J., and H. J. Bieschke, to Knox Mfg. Co. Portable movie screen. 3,140,742, 7–14–64, Cl. 160—24.
Petrick, Ernest N.: *See*—
Webb, James E. 3,159,967.
Petrick, William R.: *See*—
Travis, Lawrence R., and Petrick. Re. 25,559.
Petrides, Christie, to General Electric Co. Battery powered synchronous motor. 3,142,012, 7–21–64, Cl. 318—138.
Petrides, Thracy, W. P. Stapelfeld, and O. Stroukoff, to U.S. Industries, Inc. Tethered hovering platform. 3,149,803, 9–22–64, Cl. 244—17.13.
Petrides, Thracy, and L. S. Tuckerman, Jr., to U.S. Industries, Inc. Photo radar ground contour mapping system. 3,153,784, 10–20–64, Cl. 343—5.
Petrie, Adelore F., to General Electric Co. Loudspeaker cone suspension. 3,130,811, 4–28–64, Cl. 181—32.
Petrie, Adelore F., to General Electric Co. Loudspeaker cone suspension. 3,154,173, 10–27–64, Cl. 181—32.
Petrie, James A.: *See*—
Jackson, Alfred D., Colley, and Petrie. 3,123,322.
Petrie, James A., to Rolls-Royce Ltd. Vtol aircraft engine. 3,127,129, 3–31–64, Cl. 244—23.
Petrie, James A., to Rolls-Royce Ltd. Thrust bearing for fluid flow machines. 3,163,353, 12–29–64, Cl. 230—116.
Petrie, James A., and T. Steel, to Rolls-Royce Ltd. Gas turbine engines. 3,141,299, 7–21–64, Cl. 60—35.6.
Petrie, Oscar W. Sign frame. 3,132,431, 5–12–64, Cl. 40—125.
Petrin, Frank. Pipe coupling having centering means. 3,151,889, 10–6–64, Cl. 285—39.
Petro-Electronics Corp.: *See*—
Tomberlin, Bill M. 3,133,592.
Petro, James, to Westinghouse Electric Corp. Feeding apparatus. 3,121,281, 2–18–64, Cl. 29—203.

Petro, John: *See*—
Ganchar, Leonard N., and Petro. 3,128,674.
Petro, John S., Jr.: *See*—
Kuebrich, Herbert P., and Petro. 3,147,547.
Petro-Tex Chemical Corp.: *See*—
Brill, William F. 3,146,274.
Kerr, Ralph O. 3,156,705.
Kerr, Ralph O. 3,156,706.
Kerr, Ralph O. 3,156,707.
Petrocelli, Americo W., to General Dynamics Corp. Process for producing alkali metal superoxides. 3,120,997, 2–11–64, Cl. 23—184.
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Petrow, Vladimir, and D. M. Williamson, to The British Drug Houses Ltd. 17α-acyloxy-16-methylpregnane derivatives and process for producing same. 3,130,209, 4–21–64, Cl. 260—397.4.
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Phelps, Morton E., and J. W. Craig. Tree injector. 3,136,-091, 6–9–64, Cl. 47—57.5.
Phelps, Stuart M., and F. A. Daly, to General Signal Corp. Air traffic control machine. 3,123,800, 3–3–64, Cl. 340—23.
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Pidhayny, Denny D., L. E. Jones, and E. M. Goodell, to Space Technology Laboratories, Inc. Frequency spectrum power measuring system including non-linear compensating means. 3,153,192, 10–13–64, Cl. 324—77.
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Pignone, Joseph, and P. M. Field, to Charles Beseler Co. Film holder. 3,132,560, 5–12–64, Cl. 88—24.
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Pike, Ronald M., to Union Carbide Corp. Process for the condensation of hydroxyl-containing organosilicon compounds using lithium hydroxide or lithium diorganosilanolate. 3,156,668, 11–10–64, Cl. 260—46.5.
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Piken, Samuel S., to G. W. Piken. Shoe holder. 3,123,850, 3–10–64, Cl. 15—257.
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Piker, Herbert M., to The Hamilton-Skotch Corp. Dispensing spigot for containers. 3,152,729, 10–13–64, Cl. 222—131.
Piker, Herbert M., to The Hamilton-Skotch Corp. Dispensing and discharge device. 3,152,730, 10–13–64, Cl. 222—131.
Pilarczyk, Karol, to De Laval Turbine Inc. Means and method of assembling a pump, compressor, turbine or the like. 3,153,383, 10–20–64, Cl. 103—108.
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Pilch, John S. Tractor mounted counterweight. 3,135,404, 6–2–64, Cl. 214—142.
Pilch, John S. Backhoe. 3,140,000, 7–7–64, Cl. 214—138.
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Pilch, John S. Control system for tractor mounted apparatus. 3,155,253, 11–3–64, Cl. 214—140.
Pilcher, James O., II, to United States of America, Army. Cooling shroud. 3,130,560, 4–28–64, Cl. 62—316.
Pilcher, James O., II, and L. G. Kirkendall, to United States of America, Army. Chaff cutting process. 3,118,333, 1–21–64, Cl. 82—47.
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Pilger, James P., to United States of America, Atomic Energy Commission. Gripping device for cylindrical objects. 3,118,698, 1–21–64, Cl. 294—102.
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Dennett, John, and Ashcroft. 3,131,047.
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Pilla, Anthony. Floats for spreading concrete or the like. 3,140,500, 7–14–64, Cl. 15—235.4.
Pillman, Arthur H. Double drum hoists. 3,128,991, 4–14–64, Cl. 254—185.
Pillsbury, Albert F., Jr., and N. C. Yew, to Ampex Corp. Magnetic tape apparatus. 3,130,933, 4–28–64, Cl. 242—55.12.
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Culley, Jack R. 3,154,237.
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Reid, Francis R. 3,120,198.
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Pinault, René E., and R. E. Maës, to Anciens Etablissements A. Savy Jeanjean & Cie. Conveyor transfer device. 3,150,-761, 9–29–64, Cl. 198—31.
Pinchon, Jean, ⅓ to P. Dillies and ⅓ to G. Lemaire. Spinning machine for the production of cocoons, cops and pirns. 3,118,270, 1–21–64, Cl. 57—50.
Pinckaers, Balthasar H., to Minneapolis-Honeywell Regulator Co. Phase sensitive transistor discriminator and high gain transistor amplifier. 3,121,805, 2–18–64, Cl. 307—88.5.
Pinckaers, Balthasar H., to Minneapolis-Honeywell Regulator Co. Radiation condition sensing apparatus with background discrimination. 3,122,641, 2–25–64, Cl. 250—83.3.
Pinckaers, Balthasar H., to Minneapolis-Honeywell Regulator Co. Control apparatus. 3,147,000, 9–1–64, Cl. 268—33.
Pinckaers, Balthasar H., to Honeywell Inc. Pulse converter control apparatus. 3,161,774, 12–15–64, Cl. 250—83.6.
Pinckney, Milton W., to The De Laval Separator Co. Method and apparatus for making cheese. 3,140,185, 7–7–64, Cl. 99—116.
Pinckney, Warren J.: *See*—
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Pinder, James M., to General Electric Co. Clothes washer with improved turbine type pump. 3,127,839, 4–7–64, Cl. 103—3.
Pinder, Philip C., D. G. Turpin, and J. M. Popiel, to Esso Research and Engineering Co. Process for preparing a catalyst useful for removing carbon monoxide from hydrogen-containing gases. 3,156,657, 11–10–64, Cl. 252—440.
Pine, Robert M., and D. J. Steidinger, to Uarco, Inc. Deleaver stand. 3,143,342, 8–4–64, Cl. 270—52.5.
Pine, Robert M., and D. J. Steidinger, to Uarco, Inc. Burster. 3,161,335, 12–15–64, Cl. 225—100.
Pinegar, Avon L. Mobile traction unit. 3,145,709, 8–25–64, Cl. 128—84.
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Pingon, Pierre J. Machines for public works. 3,142,395, 7–28–64, Cl. 214—138.
Pini, Nello. Reclining chair. 3,134,623, 5–26–64, Cl. 297—78.
Pinkas, David. Means for mounting and regulating the outer end of a spiral spring. 3,154,912, 11–3–64, Cl. 58—113.
Pinkas, David. Combination envelope and ticket and blank for making the same. 3,155,307, 11–3–64, Cl. 229—70.
Pinke, August H., to H. D. Hudson Mfg. Co. Compression sprayer. 3,121,518, 2–18–64, Cl. 222—402.
Pinkerton, Sanford B., to Kimberly-Clark Corp. Test device. 3,129,662, 4–21–64, Cl. 101—218.
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Pinner, Leonard A. Concrete step form assembly. 3,134,157, 5–26–64, Cl. 25—118.
Pinner, Solomon H., R. R. Smith, M. R. Pettit, and E. B. Atkinson, to B.X. Plastics Ltd. Composition and process of crosslinking vinyl chloride polymer with diallyl monomer and peroxide catalyst. 3,125,546, 3–17–64, Cl. 260—45.5.
Pinnert, Sylvie, L. Ninet, and J. Preud'homme, to Rhone-Poulenc S.A. Antibiotic and production thereof. 3,155,581, 11–3–64, Cl. 167—65.
Pinnes, Robert W. Supersonic intermittent-powered low-altitude inclined body. 3,161,381, 12–15–64, Cl. 244—75.
Pinney, Harold E., and J. H. Kuisti, to General Electric Co. Electrical master-slave tap changing system. 3,154,734, 10–27–64, Cl. 323—43.5.
Pinnola, Charles. Combined handbag and ash receiver. 3,147,788, 9–8–64, Cl. 150—35.
Pino, Louis, to Leesona Corp. Acceleration switch. 3,144,-528, 8–11–64, Cl. 200—61.45.
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Natta, Giulio, Pino, and Mazzanti. 3,141,872.
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Pinsly, William. Tandem kit for a bicycle. 3,132,872, 5–12–64, Cl. 280—7.16.
Pinson, Marvin J., Jr., to Burlington Industries, Inc. Worsted/synthetic stretch fabric and process for manufacturing same. 3,153,838, 10–27–64, Cl. 28—72.
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Pintauro, Nicholas D., and O. R. Friedemann, to General Foods Corp. Stabilization of adipic acid crystal size by storage of adipic acid for at least seven days. 3,128,306, 4–7–64, Cl. 260—537.
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Deanin, Rudolph D., and Pinter. 3,157,606.
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Pipes, George R., to Eaton Mfg. Co. Combination radiator and closure testing device. 3,138,949, 6–30–64, Cl. 73—40.
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Pittman, Raymond A., and C. D. Jones, to Ford Motor Co. Manually controlled, multiple speed power transmission mechanism. 3,150,530, 9–29–64, Cl. 74—333.
Pittman, Robert B., to Industrial Electronic Hardware Corp. Multiple-circuit pin for multilayer circuitry. 3,162,500, 12–22–64, Cl. 339—18.
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Wismer, Marco, Le Bras, and Peffer. 3,134,742.
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Pittsley, William D.: *See*—
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Pittwood, Donald G., to International Business Machines Corp. Automatic tool setting system. 3,124,976, 3–17–64, Cl. 77—4.
Pittwood, Donald G., to International Business Machines Corp. Mechanical object manipulator. 3,144,947, 8–18–64, Cl. 214—1.
Pituley, Nicholas M.: *See*—
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Pizzarello, Roy A., A. F. Schneid, and P. Resnick, to Interchemical Corp. Method of preparing amino alkyl sulfates. 3,133,950, 5–19–64, Cl. 260—458.
Pizzulo, Francis. Waste heat utilizing system for boilers. 3,132,630, 5–12–64, Cl. 122—33.
Place, Mark I.: *See*—
Jennison, Anthony P. and J., and Place. 3,136,542.
Place, Mark I., to E. K. Geyser Co. Metal window sash. 3,155,205, 11–3–64, Cl. 189—78.
Place, Thomas M., Jr.: *See*—
Place, Thomas M., Sr., and T. M. Place, Jr. 3,149,002.
Place, Thomas M., Jr., and V. E. Bradford, to Beckman Instruments, Inc. Sealed miniature variable resistor. 3,149,300, 9–15–64, Cl. 338—180.
Place, Thomas M., Sr., and T. M. Place, Jr., to Beckman Instruments, Inc. Method of making electrical resistance element. 3,149,002, 9–15–64, Cl. 117—227.
Plagge, Vernon L., to Westinghouse Electric Corp. Fluorescent tube. 3,160,775, 12–8–64, Cl. 313—109.
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Planchard, Jerome A., Jr., to Esso Research and Engineering Co. Vapor phase disproportionation of aromatics. 3,126,422, 3–24–64, Cl. 260—671.
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Plank, Charles J., and E. J. Rosinski, to Socony Mobil Oil Co., Inc. Selective cracking catalyst. 3,120,496, 2–4–64, Cl. 252—455.
Plank, Charles J., and E. J. Rosinski, to Socony Mobil Oil Co., Inc. Catalytic cracking of hydrocarbons with a crystalline zeolite catalyst composite. 3,140,249, 7–7–64, Cl. 208—120.
Plank, Charles J., and E. J. Rosinski, to Socony Mobil Oil Co., Inc. Process for cracking hydrocarbons with a crystalline zeolite. 3,140,251, 7–7–64, Cl. 208—120.
Plank, Charles J., and E. J. Rosinski, to Socony Mobil Oil Co., Inc. Catalytic hydrocarbon conversion with a crystalline zeolite composite catalyst. 3,140,253, 7–7–64, Cl. 208—120.
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Plant, Edwin K., to Pittsburgh Plate Glass Co. Method for inhibiting potato sprouts. 3,128,170, 4–7–64, Cl. 71—2.6.
Plant, Graeme D.: *See*—
Bolling, Robert S., and Plant. 3,152,824.
Plant, Henry T.: *See*—
Jordan, Thomas J., and Plant. 3,133,285.
Plant, John R.: *See*—
Sabol, Albert R., Blaha, and Plant. 3,133,022.
Plant, Leland G., deceased; P. L. M. Plant, executrix, to M. H. Lane, trustee. Means for evacuating cars of the hopper type. 3,128,892, 4–14–64, Cl. 214—64.2.
Plant, Pattie L. M.: *See*—
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Plant Products Corp.: *See*—
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Planta Laboratories, Inc.: *See*—
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Plante, Camille A., and E. A. Holub, to International Business Machines Corp. Contact printing apparatus. 3,148,-610, 9–15–64, Cl. 95—73.
Plants Products Corp.: *See*—
Geary, Robert J. 3,162,573.
Plapp, Frederick W., Jr., and G. W. Eddy, to United States of America, Agriculture. Synergism of organophosphorus insecticides. 3,138,522, 6–23–64, Cl. 167—30.
Plass, Stanley, to Packard-Bell Electronics Corp. Storage display for regeneration of images. 3,153,699, 10–20–64, Cl. 178—6.8.
Plasser, Franz, and J. Theurer. Ballast tamping machine. 3,120,194, 2–4–64, Cl. 104—12.
Plasser, Franz, J. Theurer, and E. Schubert. Method and apparatus for measuring the height of the arc of a curved track section. 3,126,633, 3–31–64, Cl. 33—1.
Plasser, Franz, and J. Theurer. Means for measuring the transverse inclination of a track. 3,126,640, 3–31–64, Cl. 33—145.
Plasser, Franz, and J. Theurer. Mobile track tamping machine. 3,127,848, 4–7–64, Cl. 104—12.
Plasser, Franz, and J. Theurer. Track aligning apparatus. 3,134,339, 5–26–64, Cl. 104—7.
Plasser, Franz, and J. Theurer. Railroad track grading method and machine. 3,135,223, 6–2–64, Cl. 104—7.
Plasser, Franz, and J. Theurer. Arrangement for aligning railroad tracks. 3,136,065, 6–9–64, Cl. 33—86.
Plasser, Franz, and J. Theurer. Automatic control device for track tamping machines. 3,146,727, 9–1–64, Cl. 104—12.
Plasser, Franz, and J. Theurer. Mobile track lifting apparatus. 3,149,578, 9–22–64, Cl. 104—7.
Plasser, Franz, J. Theurer, and E. Schubert. Mobile track positioning machine. 3,149,579, 9–22–64, Cl. 104—8.
Plasser, Franz, and J. Theurer. Support arrangement for mobile track tamping machines. 3,151,570, 10–6–64, Cl. 104—12.
Plasser, Franz, and J. Theurer. Apparatus for correcting the position of a track. 3,153,389, 10–20–64, Cl. 104—7.
Plasser, Franz, and J. Theurer. Track lifting machine. 3,153,390, 10–20–64, Cl. 104—7.
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Plaster, William E., and R. E. Dixon, to Phillips Petroleum Co. Alkylation process and apparatus. 3,158,661, 11–24–64, Cl. 260—683.48.
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Plastic Contact Lens Co., The: *See*—
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Plastic Packaging Products Ltd.: *See*—
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Plastic Textile Accessories Ltd.: *See*—
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Hetherwick, Frederic B., and Hayner. 3,148,956.
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Plastock, Irving. Fabric fringe fraying device. 3,128,526, 4–14–64, Cl. 28—18.
Plastomeric Products Corp.: *See*—
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Platakis, Peter. Wall mounted furniture bracket. 3,157,379, 11–17–64, Cl. 248—278.
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Platforadling, Aktiebolaget: *See*—
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Plati, John T., and W. Wenner, to Hoffmann-La Roche Inc. Preparation of isoxazole compounds. 3,157,669, 11–17–64, Cl. 260—307.
Platner, John B., and C. D. Moore, to Chrysler Corp. High output engines. 3,142,289, 7–28–64, Cl. 123—55.
Platner, John B., and A. J. E. Roualet, to Chrysler Corp. Exhaust gas heated system for engine intake manifold. 3,148,669, 9–15–64, Cl. 123—122.
Platon, Howard C., and J. P. Thorel, to Westinghouse Electric Corp. Check valve and application thereof. 3,160,-112, 12–8–64, Cl. 103—228.
Platou, Leiv S., to Niagara Machine & Tool Works. Overload relief system for power presses. 3,160,089, 12–8–64, Cl. 100—214.
Platt, Allison M.: *See*—
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Platt, Eric G., and W. K. C. Yuan, to International Telephone & Telegraph Corp. Class of service telephone system. 3,133,157, 5–12–64, Cl. 179—18.
Platt, Fletcher N., to Photo/File Surveys Inc. Apparatus for obtaining roadway photographs. 3,141,393, 7–21–64, Cl. 95—1.1.
Platt, Fletcher N. Impact recording instrument. 3,141,440, 7–21–64, Cl. 116—114.
Platt, Fletcher N. Energy absorbing device. 3,141,655, 7–21–64, Cl. 256—1.
Platt, Gerald R. Radiation protector. 3,118,401, 1–21–64, Cl. 109—1.
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Platt, Sidney, to Platt Luggage, Inc. Carrying case. 3,136,-398, 6–9–64, Cl. 190—51.
Platt, Thomas B., and R. J. Wodzinski, to Olin Mathieson Chemical Corp. Preparation of 6-aminopenicillanic acid. 3,121,667, 2–18–64, Cl. 195—36.
Platt, Thomas B., and W. R. Frazier, to Olin Mathieson Chemical Corp. Method of producing cephalosporin C. 3,139,388, 6–30–64, Cl. 195—36.
Platt, Thomas B., and W. R. Frazier, to Olin Mathieson Chemical Corp. Method of producing cephalosporin C. 3,139,389, 6–30–64, Cl. 195—36.
Platte, Jerome A., R. V. Wright, and V. M. Marcy, to Calgon Corp. Device for commingling slowly flowing fluids. 3,128,993, 4–14–64, Cl. 259—4.
Platte, Richard L., to Hoover Ball and Bearing Co. Plastic milk bottle. 3,152,710, 10–13–64, Cl. 215—1.
Platteeuw, Joost C., and J. H. Choufoer, to Shell Oil Co. Hydroisomerization of olefin hydrocarbons. 3,149,180, 9–15–64, Cl. 260—683.65.
Plattner, Andrew J. Pivotally mounted vehicle sun visor. 3,150,896, 9–29–64, Cl. 296—97.
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Platz, Elwood T., and J. A. Herrmann, to I-T-E Circuit Breaker Co. Bolted connection for plug-in device. 3,144,-588, 8–11–64, Cl. 317—119.
Platz, Rolf, to Badische Anilin- & Soda Fabrik Aktiengesellschaft. Production of trioxane. 3,149,127, 9–15–64, Cl. 260—340.
Platz, Rolf, H. Kroeper, and K. Schloemer, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Separation of isobutene from gases. 3,130,242, 4–21–64, Cl. 260—677.
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Platzer, Franz G. Rolling mill. 3,153,955, 10–27–64, Cl. 80—40.
Platzer, George E., Jr., to Chrysler Corp. Circuit for performing the combined functions of the extraction of roots, multiplication and division. 3,152,250, 10–6–64, Cl. 235—193.
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Platzman, Paul M., to Ultrasonic Industries, Inc. High intensity sound generator. 3,160,138, 12–8–64, Cl. 116—137.
Plaut, Herman, to Strong Cobb Arner Inc. 3,4-diphosphatophenyl-alanine and process for making same. 3,132,171, 5–5–64, Cl. 260—461.
Plaut, Michael, to National Research Development Corp. Adding machine. 3,120,341, 2–4–64, Cl. 235—60.
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Pleiss, Bernard J., Jr., and T. A. Jacoby; said Pleiss assor. to General Motors Corp., said Jacoby assor. to Tecumseh Products Co. Thermostatic overload protector. 3,131,322, 4–28–64, Cl. 310—68.
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Wood, Frank J. 3,126,526.
Wood, Robert S. 3,123,011.
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Plessinger, Jack D. Level indicator apparatus. 3,132,514, 5–12–64, Cl. 73—295.
Pletcher, John W., to CBA Inc. Preparation of flavored dairy products. 3,118,769, 1–21–64, Cl. 99—54.
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Ploke, Martin, to Zeiss Ikon Aktiengesellschaft. Variable diaphragm structure for photoelectric exposure meters. 3,121,798, 2–18–64, Cl. 250—229.
Ploke, Martin, to Zeiss Ikon Aktiengesellschaft. Photoelectric exposure meters with light ray limiters. 3,134,021, 5–19–64, Cl. 250—229.
Ploke, Martin, to Zeiss Ikon Aktiengesellschaft. Photoelectric receiver with supplementary iris diaphragm. 3,162,766, 12–22–64, Cl. 250—229.
Ploke, Martin, and H. Thiele, to Zeiss Ikon Atkiengesellschaft. Device for adjusting light measuring instruments, particularly for photographic cameras with automatic diaphragm adjustment. 3,143,054, 8–4–64, Cl. 95—64.
Ploss, Richard S., to International Salt Co. Low bulk density chloride and the process for preparing same. 3,148,023, 9–8–64, Cl. 23—89.
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Alsgaard, Richard W., Beck, and Plueddemann. 3,146,249.
Plueddemann, Edwin P., to Dow Corning Corp. Epoxy acyloxy silanes. 3,120,546, 2–4–64, Cl. 260—348.
Plueger, Friedrich W. Propulsion units for watercraft. 3,127,865, 4–7–64, Cl. 114—148.
Pluess, Otto. Fluid dispensing device. 3,122,285, 2–25–64, Cl. 222—464.
Pluess, Paul. Method of producing halftones. 3,158,479, 11–24–64, Cl. 96—45.
Plugge, Dale L., and L. V. Shonka, to Behlen Mfg. Co., Inc. Device for level filling a large container. 3,145,855, 8–25–64, Cl. 214—17.
Plügge, Heinz, and E. Steiner, to Siemens & Halske Aktiengesellschaft. Pulse distortion circuit for producing odd and even multiples of a fundamental frequency. 3,161,780, 12–15–64, Cl. 307—88.5.
Plum, John, to Lone Star Boat Co. Stepped bottom for boat. 3,149,351, 9–22–64, Cl. 9—6.
Plumat, Emile, to Union des Verreries Mecaniques Belges, Societe Anonyme. Apparatus for vertically drawing glass in sheet form from a body of molten glass. 3,153,583, 10–20–64, Cl. 65—204.
Plumb, Frank B.: *See*—
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Plumberg, Leonard J., and A. C. Theroff, to Owens-Corning Fiberglas Corp. Insulating board of fibrous glass and method and apparatus for making same. 3,144,376, 8–11–64, Cl. 161—156.
Plume, William F., to Link-Belt Co. Valve assembly component. 3,150,536, 9–29–64, Cl. 74—424.8.
Plumettaz, Fernand, to Plumettaz Societe Anonyme. Bypass shut-off valve for a pipeline. 3,142,313, 7–28–64, Cl. 137—599.2.
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Plumlee, Carl H. Floating skis. 3,121,892, 2–25–64, Cl. 9—310.
Plumly, Percy V. Appliance transporting dolly. 3,132,875, 5–12–64, Cl. 280—47.34.
Plummer, Charles H., to Johnson & Johnson. Method and apparatus for testing the relative softness of sheet materials. 3,151,483, 10–6–64, Cl. 73—159.
Plummer, Dexter R., to The Sperry Gyroscope Co. Ltd. Accelerometers. 3,151,486, 10–6–64, Cl. 73—517.
Plummer, Wade S., to Somar Industries, Inc. Heating unit. 3,148,270, 9–8–64, Cl. 219—341.
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Plummer, Walter A. Adjustable junction boot and method of assembling same. 3,139,116, 6–30–64, Cl. 138—129.
Plumpe, David J., to United States of America, Navy. Automatic gain control signal translating system. 3,158,818, 11–24–64, Cl. 330—29.
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Pluntz, Vance R. Combination inside-outside spud wrench. 3,156,141, 11–10–64, Cl. 81—53.
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Kleinman, Henry M., and Plus. 3,144,611.
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Plymale, Charles E., to Owens-Illinois Glass Co. Method of forming plastic articles. 3,159,693, 12–1–64, Cl. 264—53.
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Hensley, Reece V. 3,131,535.
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Hampton, Verner W., Renwick, and Green. 3,119,349.
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Poage, Jesse L. Swine holder. 3,138,141, 6–23–64, Cl. 119—103.
Poage, Jesse L. Livestock oiler. 3,156,216, 11–10–64, Cl. 119—157.
Pochapsky, Harry V.: *See*—
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Pochapsky, Theodore E., to United States of America, Navy. Pressure measuring devices. 3,120,759, 2–11–64, Cl. 73—407.
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Pocock, Robert C.: *See*—
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Pocock, Terrance H., and J. W. Pawley, to London Concrete Machinery Co., Ltd. Trailer body. 3,136,533, 6–9–64, Cl. 259—176.
Pocock, Walter E., to Allied Research Products, Inc. Protective coating. 3,123,505, 3–3–64, Cl. 148—6.2.
Poczatek, Frank G. Collapsible carrier device. 3,132,781, 5–12–64, Cl. 224—42.33.
Podall, Harold E.: *See*—
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Polymer Processes, Inc.: *See*—
Boyer, Richard W. 3,121,768.
Davis, William J., and Gilles. 3,152,082.
Stott, Louis L. 3,126,339.
Dettling, Conrad J., and Dames. 3,138,483.
Poly-Pak Corp. of America: *See*—
Whiteford, Carlton L. 3,131,846.
Whiteford, Carlton L. 3,162,308.
Poly-Seal Corp., The: *See*—
Healy, Thomas J. 3,160,303.
Polysius G.m.b.H.: *See*—
Heinemann, Otto. 3,127,250.
Hubrich, Christoph. 3,121,529.
Polytechnic Institute of Brooklyn: *See*—
Banks, Ephraim, Riederman, and Schleuning. 3,148,079.
Birenbaum, Leo. 3,155,929.
Levi, Enrico. 3,162,803.
Polythane Corp.: *See*—
Peters, Timothy V., Jr. 3,161,706.
Polytop Corp.: *See*—
Wilson, Woodrow S. 3,163,337.
Polzin, Henry H., to Allis-Chalmers Mfg. Co. Jaw crusher. 3,153,512, 10–20–64, Cl. 241—300.
Poma, Anteo: *See*—
Nobile, Luciano, Allegrini, and Poma. 3,132,051.
Pomagalski, Jean, to Societe dite: Jean Pomagalski, S.A. Gripping device for transport or towing by cable. 3,150,-610, 9–29–64, Cl. 104—200.
Pomagalski, Jean, S.A., Societe dite: *See*—
Pomagalski, Jean. 3,150,610.
Pomanek, Adam T. Movable electrical box. 3,138,654, 6–23–64, Cl. 174—61.
Pombo, Melvin M.: *See*—
Diveley, William R., and Pombo. 3,150,179.
Pomerantz, Morton W., and A. F. Cox, to United States of America, Army. Cable connector. 3,136,843, 6–9–64, Cl. 174—89.
Pomerantz, Raymond. Corrugated shipping container liner. 3,119,542, 1–28–64, Cl. 229—14.
Pomeroy, Raymond V., and W. J. Mirwald, to Omark Industries, Inc. Stud welding apparatus and stud stop device therefor. 3,119,008, 1–21–64, Cl. 219—98.
Pomeroy, Robert R.: *See*—
Domeshek, Sol, Pomeroy, and Waldorf. 3,146,665.
Pommer, Dennis L.: *See*—
Kindseth, Harold V., Pommer, and Neseth. 3,125,266.
Kindseth, Harold V., Pommer, and Neseth. 3,152,740.
Pommer, Horst: *See*—
Fischer, Adolf, Pommer, Scheuerer, and Stummeyer. 3,126,272.
Stilz, Walter, and Pommer. 3,157,660.
Stilz, Walter, and Pommer. 3,163,669.
Stilz, Walter, Pommer, Schmidt, and Fessmann. 3,163,-621.
Pommer, Horst, and G. Wittig, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of alkyl vinyl ethers. 3,130,219, 4–21–64, Cl. 260—473.
Pommerening, Uwe A., to General Dynamics Corp. Negative impedance circuit. 3,151,300, 9–29–64, Cl. 330—51.
Pompa, Leonard, to Lukens Steel Co. Pack formed contoured light gage missile heads. 3,132,420, 5–12–64, Cl. 29—544.
Pompeo, Louis, to Duchess Jewelry Mfg. Corp. Expansible band with detachable links. 3,137,123, 6–16–64, Cl. 59—79.
Pond, James W.: *See*—
Herzegh, Frank, and Pond. 3,116,778.
Pond, Stuart W.: *See*—
Hill, John H., and Pond. 3,147,594.
Ponder, Charles H.: *See*—
Lancaster, James N., and Ponder. 3,122,873.
Lancaster, James N., and Ponder. 3,162,392.
Ponemon, Warren E., to Koppers Co., Inc. Capacitive probe. 3,148,314, 9–8–64, Cl. 317—246.
Pons, André H., to Compagnie de Saint Gobain. Vitreous materials and their application to nuclear reactors. 3,150,-099, 9–22–64, Cl. 252—301.1.
Pons, Henry W.: *See*—
Taber, David, Renfrew, and Pons. 3,152,110.
Taber, David, Renfrew, and Pons. 3,155,645.
Pons, Walter A., Jr., J. C. Kuck, and V. L. Frampton, to United States of America, Agriculture. Process for producing sulfurous acid treated alumina. 3,158,578, 11–24–64, Cl. 252—436.
Ponte, Joseph G., Jr., and S. T. Titcomb, to Continental Baking Co. Gluten product and process of producing the same and process of producing a baked leavened product. 3,154,420, 10–27–64, Cl. 99—91.
Ponteggi Tubolari-Dalmine Innocenti S.p.A.: *See*—
Levizzani, Norberto. 3,122,385.
Pontiac Specialties Mfg. & Dist. Corp.: *See*—
Russell, Burton W. 3,158,215.
Pontin, Fernando A. Bicycle propulsion means. 3,132,877, 5–12–64, Cl. 280—257.
Ponto, Merlyn W. Combination fireplace and fluid fuel heater device. 3,159,157, 12–1–64, Cl. 126—121.
Pontow, Werner, and R. Oertel, to Siemens-Schuckertwerke Aktiengesellschaft. Steam conversion valve. 3,134,827, 5–26–64, Cl. 261—16.
Ponzek, Felix J.: *See*—
Lipuma, Charles R., and Ponzek. 3,135,700.
Pook, Bernard T. T.: *See*—
Lowery, Peter A., Richards, and Pook. 3,152,329.
Pool, Christinus, to American Enka Corp. Magazine creel. 3,150,845, 9–29–64, Cl. 242—131.
Pool, Herald J. Forage harvester. 3,149,450, 9–22–64, Cl. 56—377.
Pool, Joseph H., to Shipelle Ltd. Jet propelled boats. 3,135,091, 6–2–64, Cl. 60—35.54.
Pool, Stuart D., to International Harvester Co. Mobile fruit picker. 3,153,311, 10–20–64, Cl. 56—328.

Poole, Alton B., and R. S. Brenneman, to Arthur D. Little, Inc. Apparatus and method for prevention of skin blister in fowl. 3,143,099, 8–4–64, Cl. 119—143.
Poole, Burnet M., and R. S. Cox, to The Marconi Co., Ltd. Neutralization of orthicon image section from stray line scanning fields. 3,153,171, 10–13–64, Cl. 315—8.
Poole, Foster M., and H. T. Westerheim, ½ to F. M. Poole, and ½ to C. Casey. System for measuring characteristics of fluids. 3,145,564, 8–25–64, Cl. 73—194.
Poole, George M., to Eli Lilly and Co. Assay method for antimicrobial substances. 3,126,325, 3–24–64, Cl. 195—103.5.
Poole, Harold G. Towing connections. 3,124,372, 3–10–64, Cl. 280—477.
Poole, Henry G.: *See*—
Nachtman, John S., and Poole. 3,152,886.
Poole, Kenneth M., to Bell Telephone Laboratories, Inc. Communication repeater traveling wave tube amplifier and oscillator system. 3,123,771, 3–3–64, Cl. 325—9.
Poole, Kenneth M., to Bell Telephone Laboratories, Inc. Magnetic focusing structure for traveling wave tubes. 3,155,-866, 11–3–64, Cl. 315—3.5.
Poole, Victor D.: *See*—
Andrew, Herbert F., and Poole. 3,120,507.
Berrie, Alistair H., Poole, and Waite. 3,118,869.
Poole, William H.: *See*—
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Gallagher, John J. 3,136,048.
Harris, Leonard T. 3,128,130.
Lansing, Horace L. 3,154,250.
McWilliams, James B. 3,163,257.
Poore, Wesley A., to Allis-Chalmers Mfg. Co. Hitch. 3,123,-381, 3–3–64, Cl. 280—405.
Poorman, Albert L. Fluid operated device for starting the movement of shafts from hubs. 3,144,708, 8–18–64, Cl. 29—252.
Poorman, Frank, Jr., and C. W. Lafitte, to Shell Oil Co. Hydraulic system for underwater wellheads. 3,142,337, 7–28–64, Cl. 166—66.5.
Poos, George I., to McNeil Laboratories, Inc. 1,5-dihydro-5-phenyl,4,1-benzoxazepin-2[3H]-ones and processes for their preparation. 3,122,554, 2–25–64, Cl. 260—239.3.
Poos, George I., to McNeil Laboratories, Inc. Aminonorbornanes and their preparation. 3,133,901, 5–19–64, Cl. 260—558.
Poos, George I., to McNeil Laboratories, Inc. 2-amino-5-aryloxazoline products. 3,161,650, 12–15–64, Cl. 260—307.
Poos, George I., and R. R. Wittekind, to McNeil Laboratories, Inc. Certain 2-alkylamino polymethylene oxazolines. 3,124,589, 3–10–64, Cl. 260—307.
Pope, Amos H.: *See*—
Osborg, Hans, Horvitz, and Pope. 3,133,845.
Pope, Clarence J.: *See*—
Weiner, Louis I., and Pope. 3,141,328.
Pope, Clifford G., and F. V. Lingood, to Burroughs Wellcome & Co. (U.S.A.) Inc. Diphtheria toxoid preparation and its production. 3,135,662, 6–2–64, Cl. 167—78.
Pope, Geoffrey A. K.: *See*—
Keen, John M., Storer, Simpson, and Pope. 3,154,919.
Pope, Harvey R.: *See*—
Hinkle, Ronald, Pope, and Fugate. 3,140,745.
Pope, James H., and K. L. Hackley, to Champion Papers Inc. Fluidized production of calcium carbonate. 3,150,926, 9–29–64, Cl. 23—66.
Pope, James K., to Ford Motor Co. Splicing device. 3,155,-562, 11–3–64, Cl. 156—504.
Pope, Joseph I.: *See*—
Gray, Milo C., Pope, and Peth. 3,148,486.
Pope, Kenneth E.: *See*—
Hohne, Jack C., Jr., and Pope. 3,143,695.
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Popelak, Alfred: *See*—
Lettenbauer, Gustav, Popelak, Schaumann, and Ribbentrop. 3,142,680.
Popiel, Jan M.: *See*—
Pinder, Philip C., Turpin, and Popiel. 3,156,657.
Popoff, Alexis A., to E. I du Pont de Nemours and Co. Explosive welding process. 3,140,537, 7–14–64, Cl. 29—474.3.
Popoff, Ivan C., to Pennsalt Chemicals Corp. Antioxidants and antiozonants. 3,138,571, 6–23–64, Cl. 260—45.9.
Popovitsch, Ernst: *See*—
Ruhrmann, Josef, Streicher, and Popovitsch. 3,149,-387.
Popp, Glenn P. Stand-off automobile body guards. 3,131,-960, 5–5–64, Cl. 293—1.
Poppelsdorf, Fedor, to Union Carbide Corp. 1,5-diozabicyclo [3.2.1] octanes. 3,159,647, 12–1–64, Cl. 260—309.7.
Poppendiek, Heinz F. Electromagnetic electrolyte pump. 3,160,100, 12–8–64, Cl. 103—1.
Poppendiek, Heinz F., and N. D. Greene, to United States of America, Atomic Energy Commission. Channel elements for circulating fuel neutronic reactors. 3,136,700, 6–9–64, Cl. 176—47.
Popper, Alfred: *See*—
Kaspar, Emanuel, Wiechert, Schenck, and Popper. 3,134,792.
Popper, Jakhin B., to The State of Israel, Ministry of Defense. Device for limiting the speed of rotation of a body. 3,149,702, 9–22–64, Cl. 188—185.
Popplewell, Charles F., 85% to Inter-Denominational Holiness Indian Missions, Inc., and 15% to L. S. Jack. Plant setter. 3,150,620, 9–29–64, Cl. 111—4.
Porath, Gordon H. Steady rests. 3,145,513, 8–25–64, Cl. 51—238.
Porath, Joseph A.: *See*—
Edman, James L., and Porath. 3,133,615.
Porcelain Enamel Institute, Inc.: *See*—
Pierce, William E. 3,127,951.
Porcelli, John C., to Polymold Plastics, Inc. Dispensing spout with rupturable breathing diaphragm and closure therefor. 3,160,327, 12–8–64, Cl. 222—189.
Porcelli, William P.: *See*—
Brown, Fred L., and Porcelli. 3,150,711.
Porcello, Raphael. Ventilated hat. 3,150,380, 9–29–64, Cl. 2—182.6.
Porck, Alfred J., to E. I. du Pont de Nemours and Co. Synthetic thermoplastic linear polyesters and process. 3,129,202, 4–14–64, Cl. 260—78.4.
Porges, Frederick B., to Flexibox Ltd. Mechanical seals with inspection means. 3,152,807, 10–13–64, Cl. 277—2.
Porges, Frederick B., to Flexibox Ltd. Mechanical seals for use with relatively rotating members. 3,161,414, 12–15–64, Cl. 277—93.
Porland, Kjeld, to Danfoss ved ingenior Mads Clausen. Thermostatically-controlled radiator valve. 3,156,413, 11–10–64, Cl. 236—42.
Porowski, Casimer P.: *See*—
Saferstein, Samuel D., and Porowski. 3,139,263.
Porret, Daniel, and H. Batzer, to Ciba Ltd. New hydroxylated monoepoxyacetals. 3,127,417, 3–31–64, Cl. 260—340.7.
Porret, Daniel, W. Fisch, H. Batzer, and O. Ernst, to Ciba Ltd. New acetals containing epoxide groups. 3,136,785, 6–9–64, Cl. 260—340.7.
Porret, Daniel, and H. Batzer, to Ciba Ltd. Epoxy compounds obtained by reacting a phenol and a 1,1-(2'-olefinic-cyclic acetal)-cyclohexene-3. 3,147,278, 9–1–64, Cl. 260—340.7.
Porret, Daniel, W. Fisch, H. Batzer, and O. Ernst, to Ciba Ltd. Diepoxides of 1,1-bis-(hydroxymethyl)-cyclohexene acetals. 3,147,279, 9–1–64, Cl. 260—340.7.
Porri, Lido: *See*—
Natta, Guilio, Porri, and Palvarini. 3,137,683.
Porsche, Dr. Ing. h.c.F., KG, Firma: *See*—
Komenda, Erwin. 3,123,401.
Schmid, Leopold F. 3,146,859.
Von Rucker, Nikolaus. 3,122,221.
Porsche-Diesel-Motorenbau G.m.b.H., Firma: *See*—
Rau, Christian A., Frank, and Bayer. 3,136,371.
Rogler, Heinz. 3,145,781.
Port, William S., and F. Scholnick, to United States of America, Agriculture. Epoxy monomers and resins thereof. 3,147,236, 9–1–64, Cl. 260—78.4.
Port, William S., and H. A. Monroe, Jr., to United States of America, Agriculture. Process for preparation of vinyl esters. 3,158,633, 11–24–64, Cl. 260—410.9.
Porta, Carlo, and C. Frascisco, to Fiat Societa per Azioni. Injection pump for reciprocating piston internal combustion engines. 3,138,112, 6–23–64, Cl. 103—174.
Porta, Mario: *See*—
Whitefield, Harry, and Porta. 3,127,901.
Portable Electric Tools, Inc.: *See*—
Davis, Walter B. 3,117,600.
Portable Make-Up Vanity Corp.: *See*—
Hindin, Jesse and E. I. 3,156,510.
Portage Machine Co.: *See*—
Elphee, Leon E. 3,156,013.
Schiler, Frederick S. 3,129,512.
Porta-Panel Products, Inc.: *See*—
Ramseur, Vardry D., Jr.: 3,159,519.
Portapavilion Structures, Ltd.: *See*—
Greenbie, Barrie B. 3,160,165.
Portaro, Romana. Combination garment. 3,144,660, 8–18–64, Cl. 2—88.
Porte, Pierre S.: *See*—
Cooke, William C., and Porte. 3,137,022.
Porteous, Emmett E., and D. I. Carpenter. Photosensitive transistor circuit for slave flash unit. 3,156,827, 11–10–64, Cl. 250—214.
Porteous, Ian K., to Norstel and Templewood Hawksley Ltd. Aparatus for treatment of sewage and like sludges. 3,155,-611, 11–3–64, Cl. 210—86.
Porter, Alvin J., and D. W. Mathison, to Product Design and Engineering, Inc. Dispensing cap having frangible positive sealing means. 3,149,755, 9–22–64, Cl. 222—83.
Porter, Ann L., to Porter-Mathews Co., Inc. Animal cage. 3,160,140, 12–8–64, Cl. 119—18.
Porter, Carroll B., to American Smelting and Refining Co. Cooling molds for casting metal. 3,157,921, 11–24–64, Cl. 22—57.2.
Porter, Charles A.: *See*—
Quick, Adam J., and Porter. 3,127,795.
Porter, Clarence W., and M. A. Guettel, to Square D Co. Reversible timing circuit. 3,163,825, 12–29–64, Cl. 328—86.
Porter, Clive H. Printing machine delivery. 3,119,609, 1–28–64, Cl. 271—71.
Porter, David B.: *See*—
Bush, John H., Fifield, Dwyer, and Porter. 3,149,758.
Porter, Donald H.: *See*—
Jenney, Theodore M., Porter, and Rice. 3,152,052.

Porter, Donald K.: *See*—
Flory, Martin D., and Porter. 3,138,049.
Porter, Donald K., to The B. F. Goodrich Co. Method and apparatus for building tires. 3,127,294, 3–31–64, Cl. 156—131.
Porter, Edward. Internal bore measuring apparatus. 3,162,953, 12–29–64, Cl. 33—174.
Porter, George K., Jr. Flow rate calibration. 3,125,879, 3–24–64, Cl. 73—3.
Porter, H. K., Co., Inc.: *See*—
Fritz, Harry E., Gallagher, Galloway, Kerr, Plumb, Rittenhouse, and Sinnamon. 3,117,597.
Galloway, Frederick M., Kerr, Rittenhouse, and Sinnamon. 3,119,415.
Pahel, William M., and Adams. 3,154,829.
Rose, Ralph, Freeman, and Entler. 3,150,466.
Sprigings, Donald G. 3,123,191.
Sprigings, Donald G. 3,124,226.
Tamburro, Anthony J. 3,149,997.
Tully, John C., Franklin, and Richardson. 3,136,099.
Porter, Harold D., to Futurecraft Corp. Shearable disc butterfly valve. 3,134,390, 5–26–64, Cl. 137—68.
Porter, Jefferson D., and S. R. Petersen, to Westinghouse Electric Corp. Dynamoelectric machines. 3,133,215, 5–12–64, Cl. 310—51.
Porter, John L., to Kaiser Aluminum & Chemical Corp. Control of process carbonation in Bayer type alumina plants. 3,120,996, 2–11–64, Cl. 23—141.
Porter, John S. Reel and self-draining sampler tube assembly. 3,129,513, 4–21–64, Cl. 33—126.4.
Porter, John L., and J. D. Sciola, to Sylvania Electric Products, Inc. Method of purifying germanium. 3,163,523, 12–29–64, Cl. 75—84.
Porter, Joseph W., to General Electric Co. Coil structure for producing a magnetic field in an electric circuit interrupter. 3,158,722, 11–24–64, Cl. 200—147.
Porter, Layton F. Detonating device. 3,157,119, 11–17–64, Cl. 102—21.8.
Porter, Lee M., to Shell Oil Co. Process for preparing block copolymers utilizing organolithium catalysts. 3,149,182, 9–15–64, Cl. 260—879.
Porter, Loren D.: *See*—
Heath, Harry A., and Porter. 3,140,032.
Heath, Harry A., and Porter. 3,140,087.
Porter, Louis F., and H. W. Kline. Apparatus for cutting encased explosives. 3,117,518, 1–14–64, Cl. 102—24.
Porter, Louis M., to Fike Metal Products Corp. Damage resistant rupture disc assembly. 3,121,509, 2–18–64, Cl. 220—89.
Porter-Mathews Co., Inc.: *See*—
Porter, Ann L. 3,160,140.
Porter, Robert D., and C. F. Stearns, to United Aircraft Corp. Servo motor. 3,129,643, 4–21–64, Cl. 91—382.
Porter, Sigmund N., to The National Cash Register Co. Pulse translating apparatus. 3,123,716, 3–3–64, Cl. 307—88.
Porter, T., & Co. (Salford) Ltd.: *See*—
Porter, Thomas, Jr. 3,146,603.
Porter, Theodore G.: *See*—
Holl, John S., and Porter. 3,135,020.
Porter, Thomas, Jr., to T. Porter & Co (Salford) Ltd. Method of cooling liquids. 3,146,603, 9–1–64, Cl. 62—98.
Porter, Vernon R.: *See*—
Salathiel, Richard A., and Porter. 3,146,199.
Porter, Virgle E., to International Telephone and Telegraph Corp. Magnetic flip-flop circuit. 3,117,236, 1–7–64, Cl. 307—88.
Porter, Virgle E., to Unexcelled Chemical Corp. Apparatus for processing electrical signals. 3,162,326, 12–22–64, Cl. 222—55.
Porter, Walter J., and E. B. Ellerbe, to Esso Research and Engineering Co. Preparation of ketones. 3,153,068, 10–13–64, Cl. 260—593.
Porter, Wellington W. Harvester. 3,159,292, 12–1–64, Cl. 214—83.1.
Porter, William L., and W. L. Root III, to The Bethlehem Corp. Method and apparatus for freezing liquids to be used in a freeze-drying process. 3,162,019, 12–22–64, Cl. 62—67.
Portion Control Co. of America, Inc.: *See*—
Vlock, Sidney, and M. 3,145,885.
Portland Copper & Tank Works, Inc.: *See*—
Wicks, Louie O. 3,159,736.
Portland Iron Works: *See*—
Pearson, Harry C. 3,139,125.
Portman, Donald G.: *See*—
Groves, John N., and Portman. 3,160,721.
Portnoy, Seymour: *See*—
Gissner, Henry, Messina, and Portnoy. 3,133,021.
Portteus, James G., to P. A. Portteus. Golf return game. 3,142,487, 7–28–64, Cl. 273—179.
Portteus, James G., to P. A. Portteus. Putting mat with golf ball dispensing means. 3,142,488, 7–28–64, Cl. 273—201.
Portteus, Phillip A.: *See*—
Portteus, James G. 3,142,487.
Portteus, James G. 3,142,488.
Posa-Cut Corp.: *See*—
Conti, Alfred R., and McLennan. 3,138,846.
Poschenrieder, Werner: *See*—
Albsmeier, Hans, and Poschenrieder. 3,142,027.
Poschman, William M., II. Circuit breaker with timing control. Re. 25,656, 10–13–64, Cl. 200—38.
Posener, Armand L. A., to Udico Electric Co. Apparatus for opening cans and sharpening knives. 3,146,555, 9–1–64, Cl. 51—128.
Posener, Armand L. A., to Udico Electric Co. Automatic electrical power can opener. 3,159,912, 12–8–64, Cl. 30—4.
Posey, Charles D.: *See*—
Eldridge, Donald F., and Posey. 3,134,551.
Posey, Eldridge D. Garment clip. 3,130,463, 4–28–64, Cl. 24—137.
Posh, Raymond C.: *See*—
Heyl, Russell G., Jr., Posh, and Logie. 3,138,402.
Poshadel, Emil J., and G. E. Phillips, to Hagen Controls Corp. Linear solid state temperature detectors. 3,154,947, 11–3–64, Cl. 73—362.
Positive Connector Co.: *See*—
Filson, John R. 3,155,450.
Poskin, Irvin C. Device for holding stacked sheet material. 3,163,293, 12–29–64. Cl. 211—51.
Posmanter, Herman B. Pepper grinder. 3,136,491, 6–9–64, Cl. 241—168.
Pospischil, Reginhard, to Siemens & Halske Aktiengesellschaft. Double balanced modulator. 3,124,767, 3–10–64, Cl. 332—47.
Pospiszel, Joseph T., to Mohasco Industries, Inc. Paper web moistening device. 3,121,025, 2–11–64, Cl. 118—123.
Posse, Ernest W., and C. E. Rutledge, to United States of America, Army. Machine for testing shock absorbers. 3,148,529, 9–15–64, Cl. 73—11.
Posse, Rolf F.: *See*—
Himmelmann, Wolfgang, Mader, and Posse. 3,137,576.
Possis Machine Corp.: *See*—
Lobash, Floyd, Straub, and Knutson. 3,160,070.
Post, E. L., & Co., Inc.: *See*—
Vaughan, Walter L., Jr., and Multari. 3,152,761.
Post, Frederick L., and S. K. Raker, to International Business Machines Corp. Magnetic core device. 3,126,530, 3–24–64, Cl. 340—174.
Post, Fritz W. Distributing valve. 3,130,750, 4–28–64, Cl. 137—636.3.
Post, J. B., Co.: *See*—
Eschenburg, William A., and Taylor. 3,119,518.
Post, James E. Press units for moisture removal. 3,162,568, 12–22–64, Cl. 162—358.
Post, Leo B.: *See*—
Klein, George I., Post, and Newby. 3,136,603.
Post, Richard F., to United States of America, Atomic Energy Commission. Pyrotron process and apparatus utilizing enhancement principle. 3,120,476, 2–4–64, Cl. 176—5.
Post, Richard F., to United States of America, Atomic Energy Commission. Means for producing high density plasmas. 3,120,481, 2–4–64, Cl. 176—8.
Postal, Robert: *See*—
Jaroff, David B., and Postal. 3,125,007.
Postal, Robert H., to McGraw-Edison Co. Fuel cell construction. 3,147,149, 9–1–64, Cl. 136—86.
Postel, Günter, to International Standard Electric Corp. Switching device comprising reed contacts operated by permanent magnets. 3,129,302, 4–14–64, Cl. 200—87.
Poster Packaging, Inc.: *See*—
Bostrom, John D. 3,137,111.
Bostrom, John D. 3,140,807.
Postle, Robert S., J. L. Michaels, and C. Henderson, to Bell Aerospace Corp. Space-atmosphere vehicle. 3,132,825, 5–12–64, Cl. 244—1.
Postlewaite, William R., to California Research Corp. Pallet load transfer mechanism. 3,123,232, 3–3–64, Cl. 214—6.
Postlewaite, William R., and C. A. Roe, to California Research Corp. Connector for tube bundle extractor. 3,126,103, 3–24–64, Cl. 214—1.
Postmaster General, Her Majesty's: *See*—
Brockbank, Robert A., and Clarke. 3,129,030.
Clarke, Eric F. S. 3,143,309.
Hills, Eric G. 3,123,216.
Postula, Louis J. and V. A. Reinforced wire shelf for medicine cabinets and the like. 3,137,249, 6–16–64, Cl. 108—27.
Postula, Victor A.: *See*—
Postula, Louis J. and V. A. 3,137,249.
Potain, F., & Cie, Etablissements: *See*—
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Potenzo, Frank A., and R. L. Shearer, to The Baker Co., Inc. Vacuum oven muffle seal. 3,160,404, 12–8–64, Cl. 263—41.
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Potter, John T., to Potter Instrument Co., Inc. High speed printer with moving characters and single hammer. 3,135,-195, 6–2–64, Cl. 101—93.
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Klein, Keith W., and Powell. 3,162,740.
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Powell, Fred B., to Monsanto Co. Apparatus for testing tires. 3,152,468, 10–13–64, Cl. 73—8.
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Powell, Gordon F. W., F. Pocock, and R. G. Crosland, to Molins Machine Co. Ltd. Apparatus for measuring a characteristic of a moving filler in a continuous rod machine and recording variations therein. 3,159,746, 12–1–64, Cl. 250—83.3.
Powell, Jack L. Sheet material rack. 3,126,099, 3–24–64, Cl. 211—47.

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Powell, Robert A., and F. I. Zaleski, to United States of America, Army. Production of metal powder compacts. 3,142,892, 8–4–64, Cl. 29—182.
Powell, Robert J., and J. E. Champion, to Continental Motors Corp. Manifold pressure regulator for supercharged internal combustion engines. 3,133,555, 5–19–64, Cl. 137—489.5.
Powell, Russell A., and O. R. Rice, to Koppers Co., Inc. Automatic conveyor filling system for blast furnaces. 3,117,682, 1–14–64, Cl. 214—18.
Powell, Vernon R., to Eastwood Acceptance Corp. Tubular article. 3,131,727, 5–5–64, Cl. 138—173.
Powell, Vernon R., to Eastwood Acceptance Corp. Method of forming close tolerance tubing. 3,136,053, 6–9–64, Cl. 29—544.
Powell, Vernon R., to Eastwood Acceptance Corp. Apparatus and method for forming close tolerance tubing. 3,154,-848, 11–3–64, Cl. 29—516.
Powell, William H., to Congoleum-Nairn Inc. Method for producing decorative sheet material. 3,145,241, 8–18–64, Cl. 264—76.
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Power, Roy B., to Tung-Sol Electric Inc. Photoelectric transducer. 3,152,926, 10–13–64, Cl. 136—89.
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Powers, Augustin J., Jr., and G. Schwartz, to Powers Chemco, Inc. Photographic developer. 3,162,534, 12–22–64, Cl. 96—66.
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Powers, Eugene L., to Mobay Chemical Co. Stabilized compositions. 3,138,641, 6–23–64, Cl. 260—578.
Powers, Eugene L., to Mobay Chemical Co. Purification of isocyanates by reduction of the hydrolyzable chlorine and acid content. 3,155,699, 11–3–64, Cl. 260—453.
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Parker, Edward A., and Powers. 3,149,058.
Powers, John B., to The Regents of the University of California. Sorting and selecting apparatus. 3,145,844, 8–25–64, Cl. 209—74.
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Powers, John H., Jr., and F. J. Fox, to Wiedemann Machine Co. Coordinate inspection device. 3,137,942, 6–23–64, Cl. 33—1.
Powers, Joseph C. Universally adjustable antenna support. 3,158,866, 11–24–64, Cl. 343—882.
Powers, Laurence G., to Whittlesey Powers, Inc. Ski binding. 3,135,525, 6–2–64, Cl. 280—11.35.
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Powers, Richard E., to Powers Wire Products Co., Inc. Cylinder and self return piston with lubrication means. 3,160,075, 12–8–64, Cl. 91—402.
Powers, Richard E., to Powers Wire Products Co., Inc. Method of making a stick of T-headed finish nails. 3,162,-871, 12–29–64, Cl. 10—54.
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Prager, Irwin A., and J. A. Riddell, to United States Rubber Co. Fungicides. 3,157,567, 11–17–64, Cl. 167—22.
Prager, Jacob, to Infrared Corp. of America. Infrared heating and illuminating fixture. 3,141,086, 7–14–64, Cl. 219—220.
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Pragnell, John J. M., to Irving Air Chute Co., Inc. Safety harness. 3,162,485, 12–22–64, Cl. 297—389.
Prahl, Frederick A., Jr., to American Can Co. Container having dispensing nozzle. 3,122,289, 2–25–64, Cl. 222—566.
Prain, Willis A. Wallpaper steamers. 3,158,139, 11–24–64, Cl. 122—504.
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Prather, Edwin E., to The Bendix Corp. Valve construction. 3,149,539, 9–22–64, Cl. 91—369.
Pratt, Alexander M. Matrix retainer. 3,140,544, 7–14–64, Cl. 32—63.
Pratt, Aloysius W., to American Machine & Foundry Co. Abnormal voltage detection circuits. 3,146,358, 8–25–64, Cl. 307—88.5.
Pratt, Aloysius W., to American Machine & Foundry Co. Pulse-type regulating system for generators. 3,154,733, 10–27–64, Cl. 322—28.
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Pratt, Robert C., and C. H. Scott, to Babbitt Pipe Co., Inc. Method of making a multi-ply plastic tubular article. 3,143,451, 8–4–64, Cl. 156—194.
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Pratt, William D. Pallet loader. 3,150,786, 9–29–64, Cl. 214—6.
Pratt, William W., to Daystrom Inc. Apparatus for the removal of portions of deposited metal films. 3,119,919, 1–28–64, Cl. 219—19.
Pravda, Frank, to The National Cash Register Co. Automatic sensing system. 3,149,315, 9–15–64, Cl. 340—174.1.
Pravel, Herman E. Rotary to lineal motion converters. 3,120,761, 2–11–64, Cl. 74—25.
Pray, Percy E. Powerhead. 3,143,356, 8–4–64, Cl. 279—4.
Precisa A.G., Rechenmaschinenfabrik: *See*—
Gelling, Helmut. 3,147,919.
Precise Products Corp.: *See*—
King, Don R. 3,145,588.
Precision Agricultural Machinery Co.: *See*—
Kappelmann, Benjamin O. 3,154,031.
Kappelmann, Benjamin O. 3,154,032.
Precision Associates, Inc.: *See*—
Horvereid, Wells J. 3,145,423.
Precision Control Corp.: *See*—
Grabau, William C. 3,127,553.
Precision Hardware, Inc.: *See*—
Powers, Daniel A. 3,122,388.
Precision Industrielle, La: *See*—
Gamet, Louis J.-M. 3,144,283.
Precision Metalsmiths, Inc.: *See*—
Horton, Robert A. 3,153,826.
Watts, Claude H., and Miller. 3,139,656.
Precision Welding of Rialto: *See*—
Ward, Ralph E. 3,158,354.
Preckel, Ralph F., to Hercules Powder Co. Rocket propellants, motors and their manufacture. 3,116,597, 1–7–64, Cl. 60—35.6.
Preckel, Ralph F., to United States of America, Navy. Smokeless powder containing acrylic polymers. 3,149,012, 9–15–64, Cl. 149—98.
Preco, Inc.: *See*—
Magarian, Gerald M. 3,122,765.
Preece, Jack W.: *See*—
Wishman, Marvin, and Preece. 3,130,249.
Preeman, Marvin B., to Standard Steel Corp. Self-erecting plant. 3,142,390, 7–28–64, Cl. 214—17.
Preen, Robert E.: *See*—
Osbor, Howard, Giles, Preen, and Streeter. 3,127,030.
Preferred Growth Capital, Inc.: *See*—
Gray, Robert H. 3,141,353.
Preform Engineering Co.: *See*—
Sondheim, Werner. 3,157,255.
Preformed Line Products Co.: *See*—
Peterson, Thomas F. 3,137,547.
Preikschat, Fritz K., to Boeing Airplane Co. Object locating system. 3,161,875, 12–15–64, Cl. 343—7.9.
Preiser, Herman S.: *See*—
Miller, Walter L., Preiser, and Tudor. 3,133,872.
Preisig, Joseph O.: *See*—
Freedman, Larry A., and Preisig. 3,128,345.
Preisinger, Max, to International Business Machines Corp. High speed printer with magnetostrictive impression members. 3,151,543, 10–6–64, Cl. 101—93.
Preisser, Gunther. Device for indicating thread breakage particularly in spinning machines. 3,132,466, 5–12–64, Cl. 57—81.
Preisz, Cleudeuin: *See*—
Uri, Frank C., and Preisz. 3,132,220.
Preisz, George J.: *See*—
Uri, Frank C., and Preisz. 3,132,220.
Preload Co., Inc., The: *See*—
Stinton, Fred. 3,123,942.
Preload Corp.: *See*—
Dijkmans, Maximilian J., Magers, and Beiner. 3,143,306.
Prelog, Vladimir: *See*—
Gaeumann, Ernst, and Prelog. 3,131,127.
Gaeumann, Ernst, Prelog, Bickel, and Vischer. 3,153,621.
Gaeumann, Ernst, Prelog, Bickel, and Vischer. 3,158,552.
Gaeumann, Ernst, Prelog, and Vischer. 3,118,812.
Gaeumann, Ernst, Prelog, and Vischer. 3,131,126.
Gaeumann, Ernst, Prelog, Vischer, and Bickel. 3,118,823.
Prelog, Vladimir, E. Vischer, H. Bickel, and B. Fechtig, to Ciba Corp. Hydroxylamino compounds. 3,137,705, 6–16–64, Cl. 260—326.
Prematex S.A.: *See*—
Mingot, Pierre R. 3,162,138.
Premier Gear and Machine Works: *See*—
Bamford, Charles F. 3,132,673.
Premier Laundry, Inc.: *See*—
Hajos, Eugene. 3,126,657.
Hajos, Eugene. 3,127,690.
Premium Engineering Co., Inc.: *See*—
Brown, Frank R., Grabel, and Rubenstein. 3,118,396.
Brown, Frank R., Grabel, and Rubenstein. 3,118,397.
Premium Iron Ores Ltd.: *See*—
Cavanagh, Patrick E. 3,148,838.
Premo, Charles N.: *See*—
Stutz, William, and Premo. 3,159,875.
Prendergast, John R., and W. A. Stutske, to Owens-Illinois Glass Co. Centrifugal casting apparatus for making a glass article. 3,132,018, 5–5–64, Cl. 65—302.
Prendergast, Richard E.: *See*—
Fox, Frederick W., and Prendergast. 3,124,215.
Prendergast, Richard H., to Westinghouse Electric Corp. Air flow control means. 3,152,456, 10–13–64, Cl. 62—262.
Prengel, James R.: *See*—
Barrows, Howard E., and Prengel. 3,119,779.
Prengle, Robert S., and R. L. Richards, Jr., to E. I. du Pont de Nemours and Co. Process for preparing oriented, organic, thermoplastic polymeric film. 3,139,470, 6–30–64, Cl. 264—289.
Prenosil, Wolfgang G., and R. G. Kinsman, to Pacific Industries, Inc. Crystal discriminator. 3,155,913, 11–3–64, Cl. 329—117.
Prentice, Allan L., to American Brake Shoe Co. Brake shoe retainer key. 3,124,221, 3–10–64, Cl. 188—243.
Prentice, Donald M.: *See*—
Madrazo, Manuel G., and Cortina. 3,117,868.
Prentice, E. V., Co.: *See*—
Brockerman, Lawrence, and Brant. 3,126,308.
Prentice, George D., to A. F. Klinzing Co., Inc. Cattle stall yoke mounting. 3,122,128, 2–25–64, Cl. 119—27.
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Hornberger, Clarence L., and Prentice. 3,147,985.
Prentice, Wilfred. Stooker for traveling baler. 3,158,270, 11–24–64, Cl. 214—6.
Prentiss, John G., and J. T. Valaskovic, to Zenith Radio Corp. Hearing aid apparatus. 3,123,678, 3–3–64, Cl. 179—107.
Prepackage Sales Corp.: *See*—
Smith, George L. 3,122,441.
Preparation Industrielle des Combustibles: *See*—
Kachelmann, Charles. 3,120,354.
Presbie, Edward W., to Chandler-Evans Corp. Gas generator for rocket propellants. 3,142,541, 7–28–64, Cl. 23—281.
Presch, Martin: *See*—
Voigt, Otto, and Presch. 3,128,711.
Preschel, Kenneth S., and C. F. O'Neill, to General Electric Co. Method of making a discharge lamp. 3,151,922, 10–6–64, Cl. 316—19.
Prescon Corp., The: *See*—
Middendorf, Karl H. 3,152,421.
Prescott, John F.: *See*—
Gardner, Cyril, and Prescott. 3,149,162.

Prescott, Robert E., and E. Watkinson, to Bell Telephone Laboratories, Inc. Telephone call transmitter. 3,123,676, 3–3–64, Cl. 179—90.

Prescott, Robert E., and W. E. Whidden, to Bell Telephone Laboratories, Inc. Telephone illuminator. 3,135,470, 6–2–64, Cl. 240—2.17.

Presena mechanika, narodny podnik: *See*—
Němec, Jaroslav, Ječmínek, and Caha. 3,129,705.

Presmet Corp., The: *See*—
Harrison, Harold T. 3,120,436.

Presnell, Frank G. Control valve. 3,145,730, 8–25–64, Cl. 137—493.2.

Presnell, Frank G. Temperature compensated flow control valve. 3,155,111, 11–3–64, Cl. 137—504.

Presnell, Frank G., and J. L. G. Curlett, to Massey-Ferguson Services, N.V. Depth and draft control for tractor drawn implements. Re. 25,512, 1–14–64, Cl. 172—9.

Presnick, Michael C. Box and method of making the same. 3,127,862, 4–7–64, Cl. 113—120.

Pres-On Abrasives, Inc.: *See*—
Gianatasio, Henry L. 3,119,208.

Preson, Billy G.: *See*—
Barnes, Allie C. 3,142,347.

Press, Carl, and E. Meier, to Alfred Teves KG. Disc brake. 3,137,368, 6–16–64, Cl. 188—73.

Press & Co. Maschinenfabrik: *See*—
Press, Ludwig. 3,161,363.

Press, Irving D., to Resistoflex Corp. Hose fitting. 3,118,691, 1–21–64, Cl. 285—149.

Press, Irving D., to Resistoflex Corp. Non-separable swivel joint assembly with clamping and auxiliary sealing arrangement. 3,142,498, 7–28–64, Cl. 285—12.

Press, Ludwig, to Press & Co. Maschinenfabrik. Winding machine. 3,161,363, 12–15–64, Cl. 242—56.

Press, Richard U. Assembly for bending electrical component axial leads. 3,142,484, 7–28–64, Cl. 269—303.

Pressed Steel Tank Co.: *See*—
Kroesch, Milton F. 3,129,746.

Pressley, Brinton W.: *See*—
Day, James L. 3,161,009.

Pressley, Robert C., Jr.: *See*—
Moore, Fred W., and Pressley. 3,116,910.

Pressman, Abraham I., to Radio Corp. of America. Transistor inverter utilizing an impedance directly connected between base and collector to prevent saturation. 3,157,795, 11–17–64, Cl. 307—88.5.

Pressman Toy Corp.: *See*—
Umanoff, Martin. 3,161,386.

Pressnell, Clarence E.: *See*—
Dancy, William B., and Pressnell. 3,145,163.

Pressure Dispensers, Inc.: *See*—
Collins, Leonard M. 3,118,578.

Pressure Systems Ltd.: *See*—
Saunders, Jack N. 3,140,048.

Pressurform Container Corp.: *See*—
Young, Serenus H. A. 3,127,307.

Presswood, John K.: *See*—
Pearson, Tillmon H., and Presswood. 3,160,672.

Prest, Robert J., to Technical Operations, Inc. Radioactive source storage container with elongated flexible means for removing sources from the container. 3,120,613, 2–4–64, Cl. 250—106.

Prest, Robert J., to Technical Operation Inc. Apparatus for manipulating radioactive material to and from a storage chamber. 3,147,383, 9–1–64, Cl. 250—108.

Prestige Group Ltd., The: *See*—
Murphy, Hugh. 3,157,901.

Prestiiacomo, Anthony J.: *See*—
Logan, Benjamin F., Jr., and Prestiiacomo. 3,139,487.

Presto Lock Co.: *See*—
Gehrie, Charles S. 3,125,874.

Preston, Frederick A., and C. G. Evans, to Deering Milliken Research Corp. Apparatus for producing intermittent edge-crimped yarn. 3,137,912, 6–23–64, Cl. 28—1.

Preston, Glenn W., to General Atronics Corp. Matrix game. 3,124,357, 3–10–64, Cl. 273—130.

Preston, Jack: *See*—
Holsten, Huffman, and Preston. 3,148,215.

Preston, James E.: *See*—
Odum, William T., Banks, and Preston. 3,161,028.

Preston, Richard J., to Combustion Engineering Inc. Method and apparatus for determining contamination of a metal body by uranium. 3,137,793, 6–16–64, Cl. 250—83.6

Preston, Richard J., to United Aircraft Corp. Electronic seam follower. 3,141,952, 7–21–64, Cl. 219—125.

Preston, Troy C., J. J. Wetzler, and S. Tyburski, to F. W. Means & Co. Towel dispensing apparatus. 3,140,904, 7–14–64. Cl. 312—38.

Preston, Wallace M.: *See*—
Gallant, Reginald R., and Preston. 3,154,184.

Prestoseal Mfg. Co.: *See*—
Herzig, Leonard A. 3,136,678.

Prestressed Concrete of Colorado, Inc.: *See*—
Perlmutter, Jack H., and Hartmeister. 3,123,872.

Prestwood, Franklin H., and H. F. Roland, to United States of America, Air Force. Pulse doppler/proximity scorer. 3,149,329, 9–15–64, Cl. 343—13.

Pretti, Eugene D., to Jacuzzi Bros., Inc. Distributing valve. 3,143,139, 8–4–64, Cl. 137—590.

Preud'homme, Jean: *See*—
Mancy, Denise I., Ninet, and Preud'homme. 3,154,475.
Pinnert, Sylvie, Ninet, and Preud'homme. 3,155,581.

Preuss, Walter A., to Radio Corp. of America. Apparatus for extracting tube mounts from assembly jigs. 3,130,485, 4–28–64, Cl. 29—203.

Previdi, Maria A.: *See*—
Previdi, Richard E. and M. A. 3,116,491.

Previdi, Richard E. and M. A. Maternity blouse with interchangeable front panels. 3,116,491, 1–7–64, Cl. 2—106.

Previte, Richard A.: *See*—
Bachelet, Albert E., Crowson, Large, Martingano, Previte, Rehm, and Smith. 3,133,152.

Prewarski, Mike: *See*—
Kent, Melvin L., and Prewarski. 3,116,595.

Preway, Inc.: *See*—
Claywell, Jack W. 3,149,637.
Claywell, Jack W., and Pavlak. 3,162,238.

Prewitt, Thomas A.: *See*—
Gaskill, George M., and Prewitt. 3,118,603.

Preziosi, Joseph R., to Elastic Stop Nut Corp. of America. Fastening device. 3,136,017, 6–9–64, Cl. 24—221.

Preziosi, Joseph R., to Elastic Stop Nut Corp. of America. Fastening device. 3,150,703, 9–29–64, Cl. 151—7.

Priapi, Joseph J., to United Aircraft Corp. Rocket engine igniter. 3,129,561, 4–21–64, Cl. 60—35.6.

Priaroggia, Paolo G., and G. Piatti, to Pirelli Societa per Azioni. Extrusion of metal sheaths for electric cables. 3,134,149, 5–26–64, Cl. 22—57.2.

Priaroggia, Paolo G., and N. Palmieri, to Pirelli Societa per Azioni. Process for the anchorage of armored cables and cable line obtained therefrom. 3,158,681, 11–24–64, Cl. 174—135.

Priban, Martin R.: *See*—
McCord, Goldwin C., and Priban. 3,141,680.

Priban, Martin R. Car top luggage carrier. 3,138,307, 6–23–64, Cl. 224—42.1.

Pribil, Victor. Visual control board. 3,156,056, 11–10–64, Cl. 40—63.

Pribonic, John F.: *See*—
Jackson, George W., and Pribonic. 3,135,524.

Pribonic, John F., to General Motors Corp. Method of assembling and securing shock absorber guide sleeves to operating rods. 3,132,237, 5–5–64, Cl. 219—107.

Pribonic, John F., to General Motors Corp. Vacuum operated pump. 3,151,805, 10–6–64, Cl. 230—52.

Pribus, Clarence W., to Eastman Kodak Co. Aperture and exposure control mechanism for photographic camera. 3,125,012, 3–17–64, Cl. 95—10.

Pribyl, Edward J., H. L. Yale, and J. Bernstein, to Olin Mathieson Chemical Corp. Boron containing heterocyclic compounds and process for producing them. 3,137,723, 6–16–64, Cl. 260—551.

Pribyl, Frank J., to Ability Sheet Metal Products Co. Condiment dispenser with a plunger. 3,150,802, 9–29–64, Cl. 222—309.

Price Brothers and Co. Ltd.: *See*—
Milton, William F., and Brockenshaw. 3,124,812.

Price, Clarence A., and M. W. Martin, Jr., to Hoover Ball and Bearing Co. Plastic bottle and method and apparatus for making same. 3,120,679, 2–11–64, Cl. 18—5.

Price, Clifford W., to Phillips Petroleum Co. Sweetening of sour hydrocarbons. 3,152,068, 10–6–64, Cl. 208—204.

Price, Dale M.: *See*—
Deutsch, Hans W., and Price. 3,161,073.

Price, David B., to Westinghouse Electric Corp. Coffee maker with a combination cover. 3,136,241, 6–9–64, Cl. 99—302.

Price, David B., to Westinghouse Electric Corp. Immersible vessel and detachable control means therefor. 3,144,547, 8–11–64, Cl. 219—441.

Price, Earl R., to The Bendix Corp. Hydraulic braking system having improved stability. 3,144,920, 8–18–64, Cl. 188—152.

Price, Earl R., and R. H. Long, to The Bendix Corp. Automatic braking system. 3,129,036, 4–14–64, Cl. 303—31.

Price, Earl R., D. L. Hoover, R. R. Hager, and G. Pfeifer, to The Bendix Corp. Fluid pressure motor construction. 3,146,682, 9–1–64, Cl. 92—99.

Price, Edward H.: *See*—
Brossman, Philip D., and Price. 3,156,665.

Price, Erwin R.: *See*—
Hanink, Dean K., and Price. 3,129,069.

Price, Frank C., A. J. Tulleners, and C. P. Reeg, to Union Oil Co. of California. Low pressure hydrocracking process with hydrofining of feed. 3,159,568, 12–1–64, Cl. 208—89.

Price, Frederick. Purging choke. 3,119,449, 1–28–64, Cl. 166—91.

Price, George B.: *See*—
Horne, Ronald, Price, and Taylor. 3,142,831.

Price, George C., to Oliver Electrical Mfg. Co. Guy wire protector. 3,142,365, 7–28–64, Cl. 189—32.

Price, Glenn R., E. N. Walsh, C. L. Dewald, and S. Y. C. Soong, to Stauffer Chemical Co. Herbicidal thiocarbimidates, phosphorothiocarbimidates and phosphorothioimides. 3,161,498, 12–15–64, Cl. 71—2.3.

Price, Herbert P., to Devoe & Reynolds Co., Inc. Preparation of partial glycidyl ethers of polyols. 3,117,138, 1–7–64, Cl. 260—348.6.

Price, James R., and R. G. Cunningham, to Shell Oil Co. Alkali metal-amine salt of halohydrocarbylphosphonic acid. 3,160,657, 12–8–64, Cl. 260—501.

Price, John A., to FMC Corp. Three component catalyst for polymerizing olefin containing a mixture of alkyl aluminum dihalide, titanium trichloride and an alkali metal amide. 3,135,724, 6–2–64, Cl. 260—93.7.

Price, John A., to Esso Research and Engineering Co. Colloidal molybdenum complexes prepared by ketone extraction. 3,140,997, 7–14–64, Cl. 252—33.
Price, John A., and H. T. Smallwood, to AirSun Corp. Three-component catalyst for 1-olefin polymerization containing aluminum alkyl halide, titanium trichloride and an orthoester. 3,149,098, 9–15–64, Cl. 260—93.7.
Price, John C.: *See*—
Cattermole, Kenneth W., and Price. 3,162,843.
Price, John F., and G. R. Curtis, to Statham Instruments, Inc. Wheatstone bridge transducer circuits with external balancing means. 3,161,821, 12–15–64, Cl. 323—75.
Price, Joseph C. Lip shield. 3,126,550, 3–31–64, Cl. 2—174.
Price, Michael S. T., to United Kingdom Atomic Energy Authority. Production of carbon masses. 3,126,430, 3–24–64, Cl. 264—29.
Price, Nathan C. Wingless supersonic aircraft. 3,148,848, 9–15–64, Cl. 244—23.
Price, Nathaniel W. Flush tank attachment for lever operation of atomizer deodorant cans. 3,143,745, 8–11–64, Cl. 4—222.
Price, Peter P.: *See*—
De Good, Maynard J., Woldring, and Price. 3,121,512.
Price-Pfister Brass Mfg. Co.: *See*—
Hinderer, Gottlob. 3,138,332.
Price, Ralph E., to Landis Tool Co. Spindle bearings. 3,121,596, 2–18–64, Cl. 308—71.
Price, Ralph E., to Landis Tool Co. Preloaded supporting means for grinding machine tool holders. 3,122,133, 2–25–64, Cl. 125—11.
Price, Ralph E., to Landis Tool Co. Apparatus for grinding intersecting annular and cylindrical surfaces. 3,145,508, 8–25–64, Cl. 51—105.
Price, Ralph E., and H. E. Balsiger, to Landis Tool Co. Automatic crankpin grinder. 3,118,258, 1–21–64, Cl. 51—105.
Price, Ralph E., and H. E. Balsiger, to Landis Tool Co. Profile dressing device for grinding wheels. 3,121,423, 2–18–64, Cl. 125—11.
Price, Ralph E., and W. E. Happel, to Landis Tool Co. Work transfer apparatus for machine tools. 3,124,257, 3–10–64, Cl. 214—1.
Price, Ralph E., and W. E. Happel, to Landis Tool Co. Axial locating means for workpieces. 3,145,507, 8–25–64, Cl. 51—105.
Price, Raymond, and C. E. Vellins, to Imperial Chemical Industries Ltd. Water-soluble triazine dyestuffs having a thiocyanato substituent on the triazine ring, and an azo, anthraquinone, or phthalocyanine chromophoric group. 3,122,530, 2–25–64, Cl. 260—146.
Price, Raymond, and C. E. Vellins, to Imperial Chemical Industries Ltd. New azo dyestuffs. 3,127,232, 3–31–64, Cl. 8—54.
Price, Richard C., to United States of America, Navy. Pulse compression residue blanking. 3,150,368, 9–22–64, Cl. 343—17.2.
Price, Richard H., to Saunders Valve Co. Ltd. Diaphragm valves. 3,123,336, 3–3–64, Cl. 251—331.
Price, Richard H., to Saunders Valve Co. Ltd. Diaphragm valve. 3,157,383, 11–17–64, Cl. 251—331.
Price, Richard H., and C. R. Jarrett, to Saunders Valve Co. Ltd. Pumps. 3,120,817, 2–11–64, Cl. 103—228.
Price, Robert W.: *See*—
Bywater, William G., and Price. 3,134,712.
Price, Stanley D., to Mine Safety Appliances Co. Colorimetric moisture indicator. 3,121,615, 2–18–64, Cl. 23—254.
Price, Stanley J., Jr., and G. Raynovich, Jr. Barricade means to be struck by a golf club when an improper golf swing is executed. 3,125,343, 3–17–64, Cl. 273—186.
Price, Thomas L., to Radiation, Inc. Subminiature electronic connector. 3,158,423, 11–24–64, Cl. 339—213.
Price, Warren H., to Jacobsen Mfg. Co. Handle for rotary lawn mowers. 3,116,937, 1–7–64, Cl. 280—47.37.
Price, Warren H., and V. R. Kaufman, to Jacobsen Mfg. Co. Rotary mower engine muffler. 3,138,910, 6–30–64, Cl. 56—25.4.
Price, Warren R., and A. S. Houston, to St. Regis Paper Co. Cup. 3,128,029, 4–7–64, Cl. 229—1.5.
Price, William G., and G. E. Frederick, to ACF Industries, Inc. Kinetic energy absorbing device. 3,117,676, 1–14–64, Cl. 213—43.
Price, William R.: *See*—
Foxwell, William J., and Price. 3,151,882.
Price, William R., to Flexitallic Gasket Co. Spiral wound gasket. 3,117,795, 1–14–64, Cl. 277—198.
Prichard, Evan S.: *See*—
Brennan, George A., and Prichard. 3,161,418.
Prichard, William W., to E. I. du Pont de Nemours and Co. Arylhydrazones of carbonyl cyanide bearing pentafluorosulfide substituents. 3,135,736, 6–2–64, Cl. 260—193.
Prichett, John J.: *See*—
Werner, Raymond E., Young, Prichett, and Brenner. 3,156,724.
Prickett, Paul: *See*—
Barton, Raymond W., Heckel, Prickett, and Swenson. 3,161,310.
Priddle, Albert T. C., to C.A.V. Ltd. Detachable propulsion mechanisms for boats. 3,124,097, 3–10–64, Cl. 115—17.
Pridgeon, Clifford W., to Daffin Co. Hay bale accumulator. 3,163,302, 12–29–64, Cl. 214—6.
Pridgeon, Clifford W., M. L. Gustafson, T. Lund, and W. L. Huttner, to Daffin Corp. Hay bale accumulator. 3,157,295, 11–17–64, Cl. 214—6.
Priesemuth, Wolfgang. Monitor for lights in a flashing circuit. 3,123,802, 3–3–64, Cl. 340—79.
Priesmeyer, Charles H., to The Powers Regulator Co. Valve. 3,136,336, 6–9–64, Cl. 137—625.18.
Priest, Edward D., to Parker Mfg. Co. Stapling gun. 3,158,870, 12–1–64, Cl. 1—260.
Priest, Maurice H.: *See*—
Webb, John G., and Priest. 3,163,550.
Priest, Wayne A.: *See*—
Compton, Arthur M., and Priest. 3,147,925.
Priest, William J., and J. A. Van Allan, to Eastman Kodak Co. Vesicular image-forming coatings comprising a light-sensitive carbazido. 3,143,418, 8–4–64, Cl. 96—49.
Priester, Amos U., Jr., and W. B. McWhorter, to Callaway Mills Co. Method for producing fabric. 3,152,381, 10–13–64, Cl. 28—72.
Priestman, Bewley D.: *See*—
Krueger, Alfred E., and Priestman. 3,121,585.
Priewe, Hans, and A. Poljak, to Schering AG. Alpha-hydrocarbon-beta polyiods amino-methylene-amino-phenyl propionic acids and esters thereof. 3,119,859, 1–28–64, Cl. 260—471.
Prill, Erhard J.: *See*—
Stephens, John A., and Prill. 3,141,818.
Prill, Erhard J., and J. C. Wygant, to Monsanto Co. Preparation of ester lactones. 3,155,685, 11–3–64, Cl. 260—343.5.
Prill, Erhard J., and J. C. Wygant, to Monsanto Co. Poly(ester lactones) and method for preparing the same. 3,155,686, 11–3–64, Cl. 260—343.6.
Prill, William K.: *See*—
Langenbach, Jack E., and Prill. 3,135,941.
Primas, Johann J., to Trub, Tauber & Co. AG. Device for recording of nuclear induction spectra. 3,124,741, 3–10–64, Cl. 324—.5.
Primich, Frank, and R. J. Neidigh, to Products Research and Development Corp. Lighter for bottled-gas torches. 3,154,936, 11–3–64, Cl. 67—20.1.
Prince, Allen K.: *See*—
Spitz, Rodney D., and Prince. 3,135,664.
Prince, Arthur E.: *See*—
Glaser, William F., and Prince. 3,149,305.
Prince, David C., Jr., to General Electric Co. Variable area nozzle. 3,138,921, 6–30–64, Cl. 60—35.6.
Prince, Eugene W.: *See*—
Hanson, Glenn M., Frans, Heian, and Prince. 3,163,519.
Prince Jidesha Kegye Kabushiki Kaisha: *See*—
Yanagibayashi, Keizo, and Iida. 3,131,658.
Prince, John F., 50% to J. J. Prince Jr. Adjustable tool head attachment. 3,153,354, 10–20–64, Cl. 77—58.
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Pringle, Robert W., K. I. Roulston and G. M. Brounell. Nuclear borehole logging utilizing a scintillation detector. Re. 25,634, 9–1–64, Cl. 250—71.5.
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Printz, Hillard A. Gem cutters' dop. 3,125,836, 3–24–64, Cl. 51—229.
Prinz, Roy H., and B. C. Kerr, to Celanese Corp. of America. Stabilization of formaldehyde solutions. 3,137,736, 6–16–64, Cl. 260—606.
Prior, Frank E. Liquid dispensing apparatus. 3,159,261, 12–1–64, Cl. 194—13.
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Pritikin, Nathan. Metallic element embedding process and product. 3,135,823, 6–2–64, Cl. 174—68.5.
Pritikin, Nathan, and B. Feldman, to Intellux Inc. Thin film structure and method of making same. 3,134,689, 5–26–64, Cl. 117—212.
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Proell, Wayne A., E. F. Morello, G. H. Peters, and W. W. Butcher, to Standard Oil Co. Ammonium nitrate propellant composition containing nitrilotriacetate. 3,153,604, 10–20–64, Cl. 149—19.
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Proops, William R., to Union Carbide Corp. Method of stabilizing cellular polyetherurethanes with an aromatic mercaptan. 3,124,545, 3–10–64, Cl. 260—2.5.
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Propster, Charles H., Jr., E. A. White, A. J. Trangle, and J. L. Barbe, to General Electric Co. Electronic data processor. 3,161,855, 12–15–64, Cl. 340—172.5.
Propster, Charles H., Jr., and J. L. Barbe, to General Electric Co. Electronic data processor. 3,161,856, 12–15–64, Cl. 340—172.5.
Prosen, Emil M., to Nobilium Products, Inc. Stainless alloys containing gallium. 3,134,670, 5–26–64, Cl. 75—171.
Prosen, Emil M., to Nobilium Products, Inc. Noble metals alloy containing gallium. 3,134,671, 5–26–64, Cl. 75—172.
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Quarles, Richard W., and L. H. Wartman, to Union Carbide Corp. Molten phase extraction of polymeric olefins. 3,150,121, 9–22–64, Cl. 260—88.2.
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Quase, Harold G. Buoyant flexible container and underwater anchorage therefor. 3,155,280, 11–3–64, Cl. 222—105.
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Quayle, George F., to Yale & Towne, Inc. Scissor lever with a pivotal link for shifting and tilting the mast on an industrial lift truck. 3,151,755, 10–6–64, Cl. 214—670.
Quayle, Jackson C. Preformed line tie. 3,127,140, 3–31–64, Cl. 248—63.
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Quick, Kenneth A., J. W. Anderson, and W. R. Carter, to Tranuco Proprietary Ltd. Power transmission and brake mechanisms. 3,116,817, 1–7–64, Cl. 192—4.
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Quick, William H., to North American Aviation, Inc. Frangible and resilient mounting system. 3,131,903, 5–5–64, Cl. 248—358.
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Quigley Co., Inc.: *See*—
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Quinlan, Frank B., and R. G. Wheeler, to United States of America, Atomic Energy Commission. Cladding of nuclear fuel elements. 3,136,051, 6-9-64, Cl. 29—471.5.
Quinlan, John E. Plumber's suction plunger. 3,130,421, 4-28-64, Cl. 4—255.
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Shen, Kwan-Ting, and Quinlan. 3,137,713.
Quinlivan, John E. Apparatus and method for testing radio fuses. 3,161,878, 12-15-64, Cl. 343—17.7.
Quinn, Bert A., to Ideal Brass Works, Inc. Door closer. 3,131,420, 5-5-64, Cl. 16—66.
Quinn, Bert A., to Ideal Brass Works, Inc. Hydraulic door closer. 3,143,757, 8-11-64, Cl. 16—57.
Quinn, Bert A., to Ideal Brass Works, Inc. Door closer brake. 3,158,894, 12-1-64, Cl. 16—66.
Quinn, Bert A., to Ideal Brass Works, Inc. Door closer. 3,160,910, 12-15-64, Cl. 16—51.
Quinn, Daniel J., III, to International Business Machines Corp. Method of making couplings to super-conductor circuits. 3,144,704, 8-18-64, Cl. 29—155.5.
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Quinn, Paul N. Infant feeding device. 3,134,494, 5-26-64, Cl. 215—11.
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Brooks, Norman B., and Quintal. 3,137,801.
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Quiogue, Virgilio J., to Burroughs Corp. Encoder circuit. 3,153,781, 10-20-64, Cl. 340—347.
Quiram, Ernest R., to Esso Research and Engineering Co. Determination of sulfur in a gas stream by means of a radioactive source and detector. 3,122,632, 2-25-64, Cl. 250—43.5.
Quirk, Douglas W., to General Electric Co. Combined oven and room air conditioner. 3,131,756, 5-5-64, Cl. 165—12.
Quirk, John F., and F. H. Lofftus, to United States of America, Atomic Energy Commission. Ceramic product comprising sintered beryllia and bentonite and method. 3,137,657, 6-16-64, Cl. 252—478.
Quirmbach, Charles F., Jr., to Genisco, Inc. Accelerometer. 3,153,346, 10-20-64, Cl. 73—497.
Quiroz, Alfred. Container seal. 3,132,763, 5-12-64, Cl. 220—24.
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Quittner, George F., to Assembly Products, Inc. Magnetic flaw detection apparatus with excitation and sensing coils mounted on nutating head. 3,146,395, 8-25-64, Cl. 324—37.
Quittner, George F. Direct current motors. 3,160,804, 12-8-64, Cl. 318—138.
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Raczynski, Walter A., and Quoss. 3,122,998.
Quynn, John W. Hydrokinetic coupling for a differential fluid drive for vehicles. 3,140,585, 7-14-64, Cl. 60—54.
Quynn, John W. Hydraulic drive. 3,151,840, 10-6-64, Cl. 253—23.
RAP Industries, Inc.: *See*—
Davies, Donald D. 3,128,030.
R-B Corp.: *See*—
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Galbierz, Jerome J., and Ditto. 3,162,348.
Geist, William L. 3,162,346.
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Raab, Andrew F., to Littelfuse, Inc. Automatically calibrated electromagnetic relay. 3,138,678, 6-23-64, Cl. 200—87.
Raab, Hans, and R. Hörnle, to Farbenfabriken Bayer Aktiengesellschaft. α-copper-phthalocyanine preparation. 3,137,-704, 6-16-64, Cl. 260—314.5.
Raab, Owen E., and C. E. Kirk. Saw measuring guide. 3,162,220, 12-22-64, Cl. 143—174.
Raabe, Herbert P., to United States of America, Air Force. Radar area display with resolution of individual pulses. 3,122,738, 2-25-64, Cl. 343—7.7.
Raabe, Herbert P., to United States of America, Air Force. Speed indicator. 3,143,734, 8-4-64, Cl. 343—9.
Raamat, Eric, to Tube-Vent Ltd. Tube closure. 3,130,898, 4-28-64, Cl. 229—93.
Raarup, Walter P., and N. E. Peery, deceased; by H. J. Peery, administratrix. Shell Oil Co. System for hydrotreating of hydrocarbons. 3,142,545, 7-28-64, Cl. 23—288.
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Raasch, Maynard S., to E. I. du Pont de Nemours and Co. 2 - (polyfluoroaliphatic thio)-benzothiazoles and benzoxazoles. 3,153,653, 10-20-64, Cl. 260—306.
Raatz, William A.: *See*—
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Rabby, Joseph G., and E. E. Gschwind, to Owens-Illinois Glass Co. Container. 3,133,686, 5-19-64, Cl. 229—5.6.
Rabe, Erich, to Ernst Voelk. Electromotor. 3,153,157, 10-13-64, Cl. 310—46.
Rabe, Frederick W. Cross-flow aeration system for grain bins. 3,136,240, 6-9-64, Cl. 98—55.
Rabenau, Albrecht K. H. T., W. Kischio, and H. G. Grimmeiss, to North American Philips Co., Inc. Delayed addition of phosphorus to aluminum melt in the process of forming aluminum phosphide crystals. 3,152,992, 10-13-64, Cl. 252—62.3.
Rabenda, Edward J., W. D. Brodd, and E. E. Marquardt, to International Business Machines Corp. File search data selector. 3,126,523, 3-24-64, Cl. 340—172.5.
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Rabinovici, Benjamin, to Radio Corp. of America. Cascaded tunnel diodes with means to apply advance and reset pulses to different terminals. 3,127,525, 3-31-64, Cl. 307—88.5.
Rabinovici, Benjamin, and C. A. Renton, to Radio Corp. of America. Full binary adder including negative resistance diode. 3,125,674, 3-17-64, Cl. 235—172.

Rabinovitch, Havva, to Laboratories for Applied Biology Ltd. Treatment of seed. 3,136,640, 6–9–64, Cl. 99—4.
Rabinow, David, to The A. C. Gilbert Co. Play set for making space craft figurettes. 3,126,667, 3–31–64, Cl. 46—17.
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Rabinow, Jacob. 3,127,972.
Rabinow, Jacob. 3,129,798.
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Rabinow, Jacob, to Rabinow Engineering Co., Inc. Adjustable preset tuning mechanism. 3,119,273, 1–28–64, Cl. 74—10.39.
Rabinow, Jacob, to Rabinow Engineering Co., Inc. Code wheel. 3,127,972, 4–7–64, Cl. 198—1.
Rabinow, Jacob, to United States of America, Army. Distance responsive device. 3,129,424, 4–14–64. Cl. 343—12.
Rabinow, Jacob, to Rabinow Engineering Co., Inc. Cylinder clutch. 3,129,798, 4–21–64, Cl. 192—84.
Rabinow, Jacob, to Control Data Corp. Phonograph arm. 3,129,946, 4–21–64, Cl. 274—23.
Rabinow, Jacob, to Control Data Corp. Machine tool. 3,141,378, 7–21–64, Cl. 90—11.
Rabinow, Jacob, to Control Data Corp. Photosensitive line following servo system for reading machines. 3,142,761, 7–28–64, Cl. 250—219.
Rabinow, Jacob, to Control Data Corp. Camera with vacuum holder for film. 3,157,101, 11–17–64, Cl. 95—31.
Rabinow, Jacob, to Control Data Corp. Indexing mover for sheets. 3,157,777, 11–17–64, Cl. 235—61.11.
Rabinow, Jacob, to Control Data Corp. Optical reading machine with rotary masks. 3,157,855, 11–17–64, Cl. 340—146.3.
Rabinow, Jacob, to Control Data Corp. Scan systems. 3,159,814, 12–1–64 ,Cl. 340—146.3.
Rabinow, Jacob, and J. G. MacDonald, to Rabinow Engineering Co., Inc. High speed punch. 3,123,290, 3–3–64, Cl. 234—115.
Rabinow, Jacob, and J. E. Waldo, to Rabinow Engineering Co., Inc. Sheet stacker or feeder. 3,127,167, 3–31–64, Cl. 271—27.
Rabinow, Jacob, and A. O. Morse, to J. Rabinow. Record player using light transducer and servo. 3,138,669, 6–23–64, Cl. 179—100.4.
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Rabinowitz, Robert, and R. W. Marcus, to American Cyanamid Co. Novel phosphine and process of preparation. 3,152,-104, 10–6–64, Cl. 260—80.
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Rabo, Jule A., P. E. Pickert, and J. E. Boyle, to Union Carbide Corp. Decationized molecular sieve compositions. 3,130,006, 4–21–64, Cl. 23—110.
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Rabourn, Warren J., to The Dow Chemical Co. Process for preparation of N,N-dialkylvinylamine. 3,149,164, 9–15–64, Cl. 260—583.
Rabow, Gerald, and B. Kushner, to International Telephone and Telegraph Corp. Center of area time discriminator. 3,118,109, 1–14–64, Cl. 324—68.
Rabus, Willy, to Licentia Patent-Verwaltungs-G.m.b.H. Lightning arrester with plural gaps. 3,126,499, 3–24–64, Cl. 315—36.
Rabus, Willy, to Licentia Patent-Verwaltungs G.m.b.H. Electric overvoltage arrester with large capacitive spark gap. 3,149,263, 9–15–64, Cl. 317—69.
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Race, Richard T., to Motorola, Inc. Centrifugal distributor advance which does not advance the rotor. 3,145,324, 8–18–64, Cl. 315—212.
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Breitsprecher, Charles O. 3,149,643.
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Racine, Wallace N. Device for preparing bodies for burial. 3,154,834, 11–3–64, Cl. 27—21.
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Le Cronier, Richard E., and Rackman. 3,134,055.
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Raczynski, Walter A., and R. N. Quoss, to Ditto, Inc. Infrared transfer process. 3,122,998, 3–3–64, Cl. 101—149.2.
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Radcliff, Alan L. Multi-louver grill. 3,145,642, 8–25–64, Cl. 98—40.
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Radcliffe, Arthur J., Jr., to International Telephone and Telegraph Corp. Magnetic amplifier. 3,133,203, 5–12–64, Cl. 307—88.
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Radema, Lambertus, J. Ubbels, A. G. J. Arentzen and J. T. van der Linde, to Nederlands Instituut voor Zuivelanderzoek. Process for the continuous manufacture of curd. 3,132,026, 5–5–64, Cl. 99—116.
Rademacher, Gustav F., and A. Candelise, to General Motors Corp. Thermocouple. 3,159,032, 12–1–64, Cl. 73—359.
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Radey, Charles R., to Pullman Inc. Wall construction for freight vehicles and method of making the same. 3,123,018, 3–3–64, Cl. 105—423.
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Budden, Anthony J., and Raiser. 3,150,878.
Raiteri, Angelo, to Olivetti, Ing. C., & C., S.p.A. Power operated screw driver for screw sticks. 3,157,212, 11–17–64, Cl. 144—32.
Raiti, Angelo: *See*—
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Raitt, Harold T. Pallet for the rear of a self-developing type camera. 3,151,536, 10–6–64, Cl. 95—13.
Raizk, Alexander and L., to Select Enterprises, Inc. Scrap metal breaker. 3,157,235, 11–17–64, Cl. 173—53.
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Rakha, Mohammed A., and J. F. Yello, to Admiral Corp. Compensating diode for complementary symmetry circuit. 3,154,639, 10–27–64, Cl. 179—1.
Rakoczi, Laszlo L., to Radio Corp. of America. Parity checker for asynchronous data processing system. 3,140,-465, 7–7–64, Cl. 340—146.1.
Rakoczi, Laszlo L., and E. Gloates, to Radio Corp. of America. Central parity checker operating from and into a data transfer bus. 3,140,464, 7–7–64, Cl. 340—146.1.
Rakoczi, Laszlo L., and L. M. Paoletti, to Radio Corp. of America. Generator of different patterns of time-sequential pulses. 3,162,816, 12–22–64, Cl. 328—63.
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Rylander, Paul N., and Rakonza. 3,162,679.
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Schott, Lawrence A. 3,161,154.
Ralha, Alberto J. N. C., to Pires & Mourato Vermelho, Ltd. Process to obtain visnagan by extraction of Ammi Visnaga L. (Lam.). 3,151,125, 9–29–64, Cl. 260—343.2.
Rall, Bernhard, to Telefunken G.m.b.H. Bistable trigger circuit with feedback amplifier. 3,132,303, 5–5–64, Cl. 328—248.
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Ralls, John W. Color television picture tube and circuit for providing superposed color and black and white images. 3,149,200, 9–15–64, Cl. 178—5.4.
Ralph, Eugene L.: *See*—
Mann, Alfred E., Dubey, Wolf, Ralph, Oliver, and Shuster. Re. 25,647.
Ralph, Otis T.: *See*—
Pauley, Robert P., and Ralph. 3,142,396.
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Ralphs, George T. Machines for operating on edge portions of workpieces. 3,129,447, 4–21–64, Cl. 12—86.65.
Ralphs, George T., to Ralphs Engineering Co. Ltd. Machines for lasting footwear. 3,141,183, 7–21–64, Cl. 12—8.2.
Ralphs, George T., to The Ralphs Engineering Co. Ltd. Processing of shoe soles. 3,147,500, 9–8–64, Cl. 12—142.
Ralphs, John D., to National Research Development Corp. Multi-channel voltage comparators. 3,123,722, 3–3–64, Cl. 307—88.5.
Ralphs, John D., to National Research Development Corp. Direct current or low frequency transistor amplifier having a high input impedance. 3,146,404, 8–25–64, Cl. 330—10.
Ralston, Don L., ½ to Dr. S. I. Wener. Sharpener for lawnmower blades. 3,139,710, 7–7–64, Cl. 51—249.
Ralston, Harry R., to Armco Steel Corp. Reinforced pipe. 3,141,480, 7–21–64, Cl. 138—172.
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Ralston, Robert H., to Hercules Powder Co. Apparatus for simultaneously extruding and cooling tubular film. 3,142,-092, 7–28–64, Cl. 18—14.
Ralston, Thomas: *See*—
Leslie, William H. P., and Ralston. 3,121,330.
Ralston, W., & Co.: *See*—
Cohen, Paul, Schwartz, and Pearl. 3,132,784.
Ralton, Theodore. Key holder. 3,137,157, 6–16–64, Cl. 70—456.
Ram, Gerson L., and R. G. Salamon, to Board of Trustees of Schools for Industrial Education of Newark, New Jersey, Administering Newark College of Engineering. Colloidal densitometer. 3,135,816, 6–2–64, Cl. 88—14.
Rambat, Harry F. Vehicle wheel chock. 3,120,292, 2–4–64, Cl. 188—32.
Rambo, George L. Overspeed event indicator. 3,160,869, 12–8–64, Cl. 340—263.
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Child, Edward T., Rambo, and Nolan. 3,125,612.
Rambo, Sheldon I., to United States of America, Navy. Traveling wave tube phase compensation circuit. 3,150,331, 9–22–64, Cl. 332—7.
Rambo, William H., deceased; The Bank of California National Association, executor. Automatic lumber feeder. 3,147,-842, 9–8–64, Cl. 198—33.
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Ramen, Torsten. Tube elements. 3,129,756, 4–21–64, Cl. 165—157.
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Beretvas, Helen S., and Ramirez. 3,136,749.
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Ramos, Joe, and H. C. McLaughlin, Jr., to Halliburton Co. Methods useful in treating earth formations. 3,136,360, 6–9–64, Cl. 166—12.
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Rampacek, Carl, to United States of America, Interior. Method for segregating copper ores. 3,148,974, 9–15–64, Cl. 75—72.
Rampe, John F. Molded plastic pulley with heat conducting metal lining. 3,142,997, 8–4–64, Cl. 74—230.17.

Ramrath, Frank A., and J. V. Comiskey, to Laboratory for Electronics Inc. Magnetic recorder. 3,153,241, 10–13–64, Cl. 346—74.

Ramsay, David W. C.: *See*—
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Ramsayer, Karl H., and W. A. M. Neubert, said Neubert assor. to said Ramsayer. Equipment for displaying the position of crafts on the map. 3,160,851, 12–8–64, Cl. 340—24.

Ramsbotham, Robert W., to Landers, Frary & Clark. Holder for bottles and the like. 3,157,317, 11–17–64, Cl. 222—183.

Ramsden, Charles D., R. J. Robertson, W. G. Fraser, and O. P. Erickson, to Pacific Coast Engineering Co. Dredging equipment. 3,152,409, 10–13–64, Cl. 37—61.

Ramsden, Henry C., to Borg-Warner Corp. Torque limiting clutch. 3,122,903, 3–3–64, Cl. 64—30.

Ramsden, Hugh E., to M & T Chemicals Inc. Thermally stable copolymers of venyltin and ethylenically unsaturated compounds. 3,143,531, 8–4–64, Cl. 260—78.5.

Ramsden, Hugh E., to Esso Research and Engineering Co. Oil-soluble liquid chelate compounds and their preparation. 3,157,682, 11–17–64, Cl. 260—429.

Ramsden, Hugh E., to Metal & Thermit Corp. Vinylphosphorous compounds and method of preparation. 3,160,666, 12–8–64, Cl. 260—606.5.

Ramsden, Hugh E., C. G. Force, and H. F. Shannon, to Esso Research and Engineering Co. Preparation of organomercurials. 3,137,714, 6–16–64, Cl. 260—431.

Ramsden, Hugh E., and H. F. Shannon, to Esso Research and Engineering Co. Process for preparing tetravinyl lead. 3,156,716, 11–10–64, Cl. 260—437.

Ramsden, Thomas R.: *See*—
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Ramseur, Vardry D., Jr., to Porta-Panel Products, Inc. Method of making signs and supporting and drying frame therefor. 3,159,519, 12–1–64, Cl. 156—270.

Ramsey Corp.: *See*—
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Marien, Melvin W. 3,133,739.

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Richelmann, Bernd H. 3,149,791.

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Tanis, Edward, and Ramsey. 3,143,765.

Ramsey, James E., Jr., to Westinghouse Electric Corp. Induction-type device protected against external field influence. 3,144,602, 8–11–64, Cl. 324—137.

Ramsey, Joseph D. Resilient bumper for vehicles. 3,120,973, 2–11–64, Cl. 293—84.

Ramsey, Justin H. Splice box. 3,151,355, 10–6–64, Cl. 18—6.

Ramsey, Paul W., to A. O. Smith Corp. Alternating current constant potential welding apparatus. 3,117,215, 1–7–64, Cl. 219—74.

Ramsey, Paul W., and M. W. Zimmermann, to A. O. Smith Corp. Composite consumable electrode containing emissive compounds and method of manufacture. 3,147,362, 9–1–64, Cl. 219—146.

Ramsey, Stuart P.: *See*—
Haettinger, George C., and Ramsey. 3,156,100.

Ramsey, William M.: *See*—
Kezerian, Charles, and Ramsey. 3,158,635.

Ramstack, Rudolph J., Jr., to Allis-Chalmers Mfg. Co. Incinerator kiln construction. 3,152,796, 10–13–64, Cl. 263—33.

Ramstein, Erich, and H.-U. Neidhardt, to H. A. Schlatter, A.G. Multipoint spot welding machine. 3,139,504, 6–30–64, Cl. 219—56.

Ranalli, Franco, to Montecatini Societa General per l'Industria Mineraria e Chimica. Method for preparing surfaces comprising isotactic polypropylene for printing. 3,124,729, 3–10–64, Cl. 317—262.

Ranalli, Franco, to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Process of coating polypropylene. 3,135,622, 6–2–64, Cl. 117—47.

Ranalli, Franco, to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Method of preventing discoloration of olefin polymers by catalyst residues, and the resulting polymeric composition. 3,139,414, 6–30–64, Cl. 260—45.5.

Ranco Inc.: *See*—
Coning, Donald L. 3,149,781.
Cook, Russell E. 3,139,501.
Croswell, William H. 3,163,195.
Daly, James U. 3,125,111.
Daly, James U., and Saliaris. 3,149,455.
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Liebermann, John. 3,163,021.
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Snider, Harold F. 3,163,043.
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Randall, Albert T. Fish lure. 3,141,255, 7–21–64, Cl. 43—42.11.

Randall, Bert M., to United States of America, Navy. Missile handling and mating system. 3,141,375, 7–21–64, Cl. 89—1.

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Randall, David I.: *See*—
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Milazzo, Joseph S., Randall, and Shown. 3,127,421.

Randall, David I., and W. Schmidt-Nickels, to General Aniline & Film Corp. Process for coloring fibers with fiber reactive phthalocyanine dyestuffs and products obtained thereby. 3,148,933, 9–15–64, Cl. 8—1.

Randall, Duane E., to United States of America, Navy. Temperature averaging probe. 3,136,160, 6–9–64, Cl. 73—339.

Randall, John J., to American Cyanamid Co. Blue cationic azo dye. 3.132,133, 5–5–64, Cl. 260—158.

Randall Mfg. Co., Inc.: *See*—
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Randall, Nathan A., to Allis-Chalmers Mfg. Co. Lapping machine. 3,160,870, 12–8–64, Cl. 340—265.

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Randall, Robert A., and D. F. Wilkes, to United States of America, Atomic Energy Commission. Omnidirectional switch. 3,161,736, 12–15–64, Cl. 200—61.45.

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Randell, Forrest T.: *See*—
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Randell, Geoffrey E. C., F. J. Burridge, and F. V. Lambert, to Woodall-Duckham Construction Co. Ltd. Automatic controls for positioning a machine. 3,124,736, 3–10–64, Cl. 318—162.

Randell, George M. Lawn edger. 3,139,940, 7–7–64, Cl. 172—15.

Rander, John B. Combined bottle cap and opener. 3,120,899, 2–11–64, Cl. 215—46.

Randlett, Walter A., and C. R. Messer, to Page Belting Co. Check strap assembly. 3,126,922, 3–31–64, Cl. 139—165.

Randmer, Jacob A., to Sperry Rand Corp. Spring-loaded lamp filament support. 3,124,713, 3–10–64, Cl. 313—271.

Randol, Glenn T. Detachable support means for two-section walled enclosure. 3,120,296, 2–4–64, Cl. 189—88.

Randol, Glenn T. Hydraulic-power steering mechanism. 3,121,468, 2–18–64, Cl. 180—79.2.

Randol, Glenn T. Power cylinder adapted for brake booster motor use. 3,137,361, 6–16–64, Cl. 180—77.

Randol, Glenn T. Control valve adapted for pressure differential motor use. 3,138,070, 6–23–64, Cl. 91—378.

Randol, Glenn T. Control valve adapted for pressure differential motor use. 3,145,625, 8–25–64, Cl. 91—374.

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Randolph, Carl L., Jr.: *See*—
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Schultz, Robert D., and Randolph. 3,148,028.
Schultz, Robert D., and Randolph. 3,149,919.

Randolph, George J., Jr., to United States of America, Air Force. Aerodynamically aligned accelerometer. 3,140,605, 7–14–64, Cl. 73—178.

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Girouard, Philias H., Hickman, Kane, Nelson, Neuman, Randolph, and Collier. 3,144,809.
Girouard, Philias H., Hickman, Kane, Nelson, Neuman, Randolph, and Collier. 3,146,671.
Girouard, Philias H., Hickman, Kane, Nelson, Neuman, Randolph, and Collier. 3,146,672.

Randolph, Hollis L., M. J. Caparone, and M. M. Graham, to Robertshaw Controls Co. Spring-clip mounted manually operable means for modifying the action of an automatic control device. 3,140,372, 7–7–64, Cl. 200—138.

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Randrup, Ben F., and H. B. Rice, to John Burton Machine Corp. Strip stamp applicator. 3,133,389, 5–19–64, Cl. 53—137.
Randrup, Benjamin F., to John Burton Machine Corp. Carrier and multi-container package. 3,156,358, 11–10–64, Cl. 206—65.
Randvere, Fredrik, to American Cyanamid Co. Deoxygenation process for azomonoazine N-oxide dyes. 3,117,116, 1–7–64, Cl. 260—155.
Ranelli, Claude. Automatic work holder with compound movement. 3,151,424, 10–6–64, Cl. 51—232.
Raney, Ben B., to Chicago Development Corp. Titanium group metals. 3,152,885, 10–13–64, Cl. 75—84.
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Raney, Richard C. Coupling device for vehicles. 3,130,982, 4–28–64, Cl. 280—477.
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Huntley, Keith G. 3,158,049.
Huntley, Keith G. 3,160,958.
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Rawston, George O., and Clifford. 3,158,022.
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Rank, Richard E., and M. Gurman. Swimming pool and safety platform. 3,123,834, 3–10–64, Cl. 4—172.
Ranke, Fritz, to Gesellschaft fur Linde's Eismaschinen Aktiengesellschaft. Process and apparatus for the vaporization of liquid. 3,127,751, 4–7–64, Cl. 62—52.
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Buchan, William R., Rankin, and Brown. 3,132,510.
Rankin, Alexander B. C., V. C. Buffery, H. W. Taylor, and E. F. French. Ultrasonic testing of materials. 3,121,325, 2–18–64, Cl. 73—67.7.
Rankin, Andrew W., to General Electric Co. Boiler feed pump arrangement for steam turbine powerplant. 3,163,009, 12–29–64, Cl. 60—107.
Rankin, Douglas B., and D. W. Seager, to Northern Electric Co. Ltd. Footage printing machine. 3,143,062, 8–4–64, Cl. 101—74.
Rankin, Dudley D. R., and K. E. Anderson. Means of erecting concrete floor and roof slabs in the construction of multi-floor buildings. 3,154,292, 10–27–64, Cl. 254—105.
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Rankin, Edward C., deceased (M. A. Rankin, executor), and A. F. Johnson, to A. J. Research & Metals Co. Easel-back binder. 3,135,532, 6–2–64, Cl. 281—33.
Rankin, Edward C., and A. F. Johnson, to A. J. Research & Metals Co. Catalogue binder. 3,139,082, 6–30–64, Cl. 129—24.
Rankin, George C.: *See*—
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Rankin, Lillian. Conduit cleaning system. 3,132,656, 5–12–64, Cl. 134—98.
Rankin, Mary A.: *See*—
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Rannenberg, George C., to United Aircraft Corp. Multipass evaporator. 3,161,234, 12–15–64, Cl. 165—163.
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Gauthier, William D. 3,128,201.
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Ransom, Richard S., and M. F. Wilson, to Short Brothers & Harland Ltd. Support column for an optical sighting instrument. 3,124,329, 3–10–64, Cl. 248—160.
Rantsch, Kurt, to M. Hensoldt & Sohme Optische Werke AG. Measuring device with a guide way adapted to measure the displacement of a slidable carriage therein. 3,124,880, 3–17–64, Cl. 33—143.
Räntsch, Kurt, to M. Hensoldt & Sohne, Optische Werke Aktiengesellschaft. Apparatus for fixing a point on the surface of a workpiece. 3,130,633, 4–28–64, Cl. 88—24.
Räntsch, Kurt, and A. Weyrauch, to M. Hensoldt, & Sohne, Optische Werke, A.G. Optical apparatus for accurately setting and reading the displacement of slide carriages. 3,134,-838, 5–26–64, Cl. 88—14.
Rantsch, Kurt, and A. Weyrauch, to M. Hensoldt & Sohne, Optische Werke AG. Optical equipment for the accurate setting and reading of the amount of displacement of a slide. 3,142,718, 7–28–64, Cl. 88—14.
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Rao, Koppaka V., W. S. Marsh, and S. C. Brooks, Jr., to Chas. Pfizer & Co., Inc. Antibiotic narangomyain and method of production. 3,155,583, 11–3–64, Cl. 167—65.
Raoul, William G.: *See*—
Hafley, David C., Payne, and Raoul. 3,158,290.
Rapata, George M., to Illinois Tool Works, Inc. Plastic screw anchor. 3,136,350, 6–9–64, Cl. 151—41.75.
Rapata, George M., to Illinois Tool Works Inc. Method of making a carrier for containers. 3,137,109, 6–16–64, Cl. 63—48.
Rapata, George M., to Illinois Tool Works Inc. Arcuate slot strain relief grommet. 3,141,062, 7–14–64, Cl. 174—153.
Rapata, George M., to Illinois Tool Works Inc. Screw grommet. 3,141,489, 7–21–64, Cl. 151—41.75.
Rapata, George M., to Illinois Tool Works Inc. Fastener unit. 3,153,975, 10–27–64, Cl. 85—80.
Rapata, George M., to Illinois Tool Works, Inc. Fastener stud. 3,162,085, 12–22–64, Cl. 85—63.
Rapean, John C.: *See*—
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Townrow, Wilfred A. 3,135,072.
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De Good, Maynard J., Di Maggio, Hidden, and Schneider. 3,136,406.
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McGow, Thomas C., Gotham, and Schneider. 3,146,876.
McGow, Thomas C., Schneider, and Gotham. 3,146,875.
Schneider, Donald A. 3,116,823.
Sebastian, James R., Poel, De Good, and Redlichs. 3,127,979.
Rapisarda, Edward D., and A. M. Laciviat, to Gilbert & Barker Mfg. Co. Printer unit particularly adapted for use in a system dispensing metered amounts of liquid. 3,152,-754, 10–13–64, Cl. 235—58.
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Rapoza, Edward J., to Radio Corp. of America. Tape control apparatus. 3,118,582, 1–21–64, Cl. 226—95.
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Rarick, Maurice S., E. N. Jarvis, and V. R. Rupp, to Hygrade Food Products Corp. Sausage drying method. 3,132,031, 5–5–64, Cl. 99—208.
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Rayner, Eric T., D. C. Heinzelman, and H. P. Dupuy. Process for removing the Halphen test response from cottonseed oil. 3,135,775, 6–2–64, Cl. 260—424.
Rayner, Raymond E., to Worthington Corp. Refrigeration apparatus including compressor motor cooling means. 3,158,009, 11–24–64, Cl. 62—505.
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Rayniak, Joseph G., to Outboard Marine Corp. Method of manufacturing chain saw bars and product. 3,119,418, 1–28–64, Cl. 143—32.
Raynor, Robert D. Collapsible clothes dryer. 3,163,297, 12–29–64, Cl. 211—178.
Raynor, Warren S., to Mathews Conveyor Co. Ltd. Pallet loading machine. 3,135,150, 6–2–64, Cl. 83—94.
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Read, John A., and M. A. Chadbourne, to Joy Mfg. Co. Mining apparatus. 3,141,521, 7–21–64, Cl. 182—12.
Read, Philip C., to Dostal & Lowey Co., Inc. Bottle washing machine improved rinsing means. 3,129,713, 4–21–64, Cl. 134—73.
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Reader, Trevor D., to Sperry Rand Corp. Pulse generator. 3,159,169, 12–1–64, Cl. 137—81.5.
Reading, Alpheus E., Jr., to Textile Machine Works. Fabric severing means for knitting machines. 3,120,747, 2–11–64, Cl. 66—145.
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Hall, Harrison R., and Reas. 3,140,813.
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Reaser, Warren E., to The Sun Tool and Machine Co. Apparatus for feeding glass sheets in an edge grinding machine. 3,136,094, 6-9-64, Cl. 51—76.
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Reason, Richard E., to Rank Precision Industries Ltd., trading as The Rank Organisation Rank Taylor Hobson Division. Testing the profiles of surface sections. 3,136,069, 6-9-64, Cl. 33—174.
Reason, Richard E., G. O. Rawstron, and R. C. Spragg, to Rank Precision Industries Ltd., trading as Rank Organisation, The Rank Taylor Hobson Division. Damping device. 3,160,237, 12-8-64, Cl. 188—87.
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Reaves, Robert S., to Allis-Chalmers Mfg. Co. Wheel track planter. 3,138,125, 6-23-64, Cl. 111—52.
Reaves, Woodrow W., to United States of America, Army. Non-hazardous dispersing systems for liquids and volatile solids. 3,117,521, 1-14-64, Cl. 102—65.
Reaves, Woodrow W., and K. G. Carlon, to United States of America, Army. Aircraft tracking colored smoke producing composition. 3,121,231, 2-11-64, Cl. 149—84.
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Rector, Harley R. Bow and machine for making it. 3,139,225, 6-30-64, Cl. 223—46.
Rector, Jacob L. Cast slip-ring assembly. 3,126,596, 3-31-64, Cl. 22—202.
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Rainer, William C., Redding, Hitov, Sloan, and Stewart. 3,144,399.
Redding, Keith. Cleaner bar for upper baler drive roller. 3,125,948, 3-24-64, Cl. 100—88.
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Redelman, Paul E., and G. E. Childress, to American Brake Shoe Co. Directional control and relief valves. 3,158,167, 11-24-64, Cl. 137—87.
Redemske, Ralph F., and J. M. Brady, to Servomechanisms, Inc. Electronic device. 3,126,511, 3-24-64, Cl. 324—33.
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Rediger, Alvin L., to General Electric Co. Apparatus and method for helically winding strip material. 3,152,629, 10-13-64. Cl. 153—64.5.
Rediker, Robert H., and A. L. McWhorter, to Massachusetts Institute of Technology. Bilateral bistable semiconductor switching matrix. 3,118,130, 1-14-64, Cl. 340—166.
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Redman, Howard E., to United Mattress Machinery Co., Inc. Sewing machine. 3,125,049, 3-17-64, Cl. 112—184.
Redman, William C., to United States of America, Atomic Energy Commission. Reactor control with thorium control grid. 3,162,577, 12-22-64, Cl. 176—21.
Redmayne, Geoffrey. Timing devices. 3,142,954, 8-4-64, Cl. 58—22.9.
Redmer, Carl A., to Carmer Industries, Inc. Mold for making plastic coil with straight leads. 3,117,344, 1-14-64, Cl. 18—19.
Redmer, Carl A., to Carmer Industries, Inc. Air bushing in plastics extrusion. 3,121,001, 2-11-64, Cl. 34—155.

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Redmond, John G. Apparatus to teach music. 3,153,365, 10–20–64, Cl. 84—478.
Redmond, Robert L.: *See*—
Meulenberg, Timothy G., and Redmond. 3,132,727.
Redmond, Sanford, to B. Redmond & Son, Inc. Butter cutting and packaging machine. 3,129,546, 4–21–64, Cl. 53—122.
Redner, Salomon, to The Budd Co. Methods for the manufacture of photoelastic devices. 3,125,615, 3–17–64, Cl. 264—1.
Redpath, John R., to Chicago Carton Co. Autonest carton. 3,131,850, 5–5–64, Cl. 229—42.
Redston, John P., M. J. Reider, and G. M. Weiss, to Drew Chemical Corp. Shrinkproofing wool by acidification and subsequent application of alkali metal bromates and halide. 3,128,145, 4–7–64, Cl. 8—128.
Redwine, John B., to ETC Inc. Method of making electrical connections. 3,146,519, 9–1–64, Cl. 29—155.55.
Redyke, Leah A. Flower pot collar. 3,153,301, 10–20–64, Cl. 47—34.
Reeber, Rudolf, and R. Dobner, to G. M. Pfaff, AG. Stitching pattern selector assembly for zigzag sewing machines. 3,118,404, 1–21–64, Cl. 112—158.
Reeber, Rudolf, and E. Albrecht, to G. M. Pfaff A.G. Wheel-feed mechanism for sewing machines. 3,141,428, 7–21–64, Cl. 112—211.
Reeber, Rudolf, H. Wenz, and K. Hedegaard, to G. M. Pfaff AG. Thread trimming mechanism for sewing machines. 3,141,432, 7–21–64, Cl. 112—252.
Reeber, Rudolf, and H. Wenz, to G. M. Pfaff, A.G. Ornamental seam devices for sewing machines. 3,143,985, 8–11–64, Cl. 112—158.
Reeber, Rudolf, R. Dobner, and R. Schafer, to G.M. Pfaff, AG. Sewing machine mechanism for decorative stitching. 3,156,205, 11–10–64, Cl. 112—158.
Reece, Clark B., to R.I.N.C.O. Damper positioning means. 3,119,279, 1–28–64, Cl. 74—528.
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Althens, Herbert E. 3,135,032.
Stewart, Robert B., Jr. 3,137,420.
Reece Folding Machine Co.: *See*—
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Reece, Joseph T. Automatic device for purchasing waste paper. 3,159,259, 12–1–64, Cl. 194—4.
Reece, William O., to Swift & Co. System for ante-mortem injection. 3,123,477, 3–3–64, Cl. 99—107.
Reed, Buckley R., to K. M. White Co., Inc. Illuminated flush push button switch. 3,127,493, 3–31–64, Cl. 200—167.
Reed, Charles C., R. B. Fortenbaugh, and L. J. Leeson, to American Cyanamid Co. Stable liquid preparations of 6-demethyltetracyclines. 3,155,586, 11–3–64, Cl. 167—65.
Reed, Charles C., and R. B. Fortenbaugh, to American Cyanamid Co. Stable liquid preparations of 7-chlorotetracycline. 3,155,587, 11–3–64, Cl. 167—65.
Reed, Clair S., to Van Dresser Specialty Corp. Composite insulator. 3,134,988, 6–2–64, Cl. 5—354.
Reed, Clair S., to Van Dresser Specialty Corp. Composite pad-type insulator. 3,134,989, 6–2–64, Cl. 5—354.
Reed, Clair S., to Van Dresser Specialty Corp. Seat spring structure. 3,137,489, 6–16–64, Cl. 267—103.
Reed, Clair S., to Van Dresser Specialty Corp. Supporting spring cushion structure for a seat. 3,137,490, 6–16–64, Cl. 267—110.
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Reed, Clifton W., and B. Cassen, to Consolidated Electrodynamics Corp. Non-destructive method for testing bodies for penetrability by particulate matter. 3,135,865, 6–2–64, Cl. 250—83.
Reed, Daniel J., to A. O. Smith Corp. Apparatus for fabricating a reinforced plastic article. 3,123,313, 3–3–64, Cl. 242—7.
Reed, Daniel J., to A. O. Smith Corp. Method and apparatus for making fiber reinforced plastic pipe. 3,128,216, 4–7–64, Cl. 156—184.
Reed, Daniel J., to A. O. Smith Corp. Method of making duplex wall tubing. 3,156,042, 11–10–64, Cl. 29—471.5.
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Petersen, James M., Reed, and Kluge. 3,162,670.
Petersen, James M., Reed, and Kluge. 3,162,671.
Reed, David D., J. M. Petersen, and H. D. Kluge (deceased, by H. E. Kluge, administratrix), to Texaco Inc. Hydrocarbonthiophosphonoxy - hydroxyoxahexyl alkenoates. 3,158,641, 11–24–64, Cl. 260—461.
Reed, David D., J. M. Petersen, and H. D. Kluge, deceased (by H. E. Kluge, administratrix), to Texaco Inc. Hydrocarbonthiophosphonoxyhydroxyoxaalkylhydrocarbylamine. 3,162,667, 12–22–64, Cl. 260—461.
Reed, David D., J. M. Petersen, and H. D. Kluge, deceased (by H. E. Kluge, administratrix), to Texaco Inc. Hydrocarbonthio - phosphonoxydihydroxyalkoxyalkyl alkenoates. 3,162,668, 12–22–64, Cl. 260—461.
Reed, David D., J. M. Petersen, and H. D. Kluge, deceased (by H. E. Kluge, administratrix), to Texaco Inc. Dialkyl 4-hydrocarbonthiophosphonoxy-5 - dihydroxyalkoxyhexahydrophthalates. 3,162,669, 12–22–64, Cl. 260—461.
Reed, Donald A.: *See*—
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Reed, Donald E., and S. F., to Space Components, Inc. Permanent magnet proximity switch. 3,134,870, 5–26–64, Cl. 200—87.
Reed, Donald H., to The Budd Co. Folding seat arrangement. 3,131,964, 5–5–64, Cl. 297—13.
Reed, Edgar, to Reed & Prince Mfg. Co. Bit end of tool for driving screw fastener. 3,133,568, 5–19–64, Cl. 145—50.
Reed, Edgar, to Reed & Prince Mfg. Co. Self-tapping driving screw fastener. 3,156,152, 11–10–64, Cl. 85—41.
Reed, Edwin E., to Phillips Petroleum Co. Storage and pressure control of refrigerated liquefied gases. 3,150,495, 9–29–64, Cl. 62—54.
Reed, Edwin E., and F. A. Prange, to Phillips Petroleum Co. Insulation system for low temperature service. 3,159,005, 12–1–64, Cl. 62—45.
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Reed, Frank A. Transmission of granular material. 3,161,442, 12–15–64, Cl. 302—49.
Reed, Frederick P., to United States of America, Army. Combination bolt holding and cartridge feeding device for a magazine-type firearm. 3,120,070, 2–4–64, Cl. 42—18.
Reed, Frederick P., to United States of America, Army. Co-operating firing and indexing devices for revolver-type firearms. 3,122,060, 2–25–64, Cl. 89—155.
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Reed, Frederick P., to United States of America, Army. Means for indexing multiprojectile cartridges into firing alignment in a multibore gun. 3,146,673, 9–1–64, Cl. 89—126.
Reed, George C., to The Bendix Corp. Friction coated metal base. 3,117,845, 1–14–64, Cl. 29—191.2.
Reed, George R., to Safety Electrical Equipment Corp. Lubrication arrangement for a rail car axle drive. 3,162,269, 12–22–64, Cl. 184—6.
Reed, Herbert B., and J. C. Gallagher, to Raybond Electronics, Inc. Glue setting machine. 3,149,217, 9–15–64, Cl. 219—10.69.
Reed, Hugh W. B., to Imperial Chemical Industries Ltd. Fuel and lubricating oils stabilized with tri(hydroxyphenyl) compounds. 3,154,492, 10–27–64, Cl. 252—52.
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Reed, James H., III, and A. G. Sherman, to Dry-Screen Process, Inc. Method and apparatus for making stencil screens for printing. 3,150,583, 9–29–64, Cl. 95—77.
Reed, James R., to General Motors Corp. Bidirectional flow restrictor valve. 3,126,910, 3–31–64, Cl. 137—493.
Reed, James R., Jr. Gun holder for bicycles. 3,142,424, 7–28–64, Cl. 224—32.
Reed, John A., II, to Jersey Production Research Co. Apparatus for use on floating drilling platforms. 3,163,005, 12–29–64, Cl. 60—51.
Reed, John C., to United States of America, Air Force. Method and radar system for eliminating interfering ground signals. 3,126,543, 3–24–64, Cl. 343—17.1.
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Reed, Karl G., to Pennsalt Chemicals Corp. Solids discharge centrifuge. 3,148,145, 9–8–64, Cl. 233—7.
Reed, Lionel E., and O. M. Hillman, to Socony Mobil Oil Co., Inc. Tank truck air eliminator system. 3,138,291, 6–23–64, Cl. 222—72.
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Reed, Paul J. Torque rod. 3,121,348, 2–18–64, Cl. 74—588.
Reed, Paul J. Resilient suspension for vehicles. 3,121,560, 2–18–64, Cl. 267—21.
Reed, Philip W., W. E. Brigham, and J. N. Dew, to Continental Oil Co. Method of secondary recovery of hydrocarbons. 3,147,803, 9–8–64, Cl. 166—10.
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Reed, Ronald L., and J. J. Taber, to Gulf Research & Development Co. Process for fracturing a subterranean formation. 3,147,806, 9–8–64, Cl. 166—39.

Reed, Ronald L., P. L. Terwilliger, and L. A. Wilson, Jr., to Gulf Research & Development Co. Process for the production of oil of low mobility. 3,159,216, 12–1–64, Cl. 166—11.

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Reed, William A., and J. M. Roblin, to Republic Steel Corp. Process for mixing tar-decanter sludge with coke oven feed coal. 3,146,183, 8–25–64, Cl. 8—8.

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Reeder, Earl, and L. H. Sternbach, to Hoffmann-La Roche Inc. Amino substituted benzophenone oximes and derivatives thereof. 3,136,815, 6–9–64, Cl. 260—562.

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Reid, Alexander L., and T. L. Salt, to United Aircraft of Canada Ltd. Blade locking device for conical broached discs. 3,158,353, 11–24–64, Cl. 253—77.
Reid, Donald L., to United States of America, Navy. Remotely actuated magazine sprinkler valve. 3,160,212, 12–8–64, Cl. 169—20.
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Reid, Edward J., to Lever Bros. Co. Emulsifier and method of making same. 3,158,487, 11–24–64, Cl. 99—94.
Reid, Eugene H., to General Electric Co. Electric discharge device. 3,133,224, 5–12–64, Cl. 313—171.
Reid, Francis R., to The Pillsbury Co. Dough machine. 3,120,198, 2–4–64, Cl. 107—69.
Reid, Francis R., to The Pillsbury Co. Method and apparatus for handling dough and the like. 3,148,635, 9–15–64, Cl. 107—7.
Reid, Francis R., to The Pillsbury Co. Dough cutter. 3,154,-986, 11–3–64, Cl. 83—123.
Reid, Frederick C., to Sylvania Electric Products Inc. Formed strap frame grid. 3,126,496, 3–24–64, Cl. 313—348.
Reid, Gilbert R., J. Mueller, and F. B. Hannon, to Sperry Rand Corp. Method and means for electrical connection. 3,145,260, 8–18–64, Cl. 174—72.
Reid, Gilbert R., and J. Mueller, to Sperry Rand Corp. Means for connecting coaxial cables. 3,151,211, 9–29–64, Cl. 174—72.
Reid, Gordon J. Anti-friction buffer. 3,163,410, 12–29–64, Cl. 267—1.
Reid, James S., to The Standard Products Co. Windshield operating mechanism. 3,123,839, 3–10–64, Cl. 9—1.
Reid, James S., to The Standard Products Co. Strip structures. 3,150,423, 9–29–64, Cl. 20—69.
Reid, James S., to The Standard Products Co. Carburetors. 3,157,170, 11–17–64, Cl. 123—119.
Reid, Jerome L., and E. A. Steigmann, to Polaroid Corp. Process for producing silver halide casein photographic emulsions. 3,144,335, 8–11–64, Cl. 96—94.
Reid, John B., and R. A. Spence, to Bain Corp. Method for detaching an insole adhesively secured to a shoe last. Re. 25,529, 3–3–64, Cl. 12—142.
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Frick, John G., Jr., Arceneaux, and Reid. 3,144,299.
Vail, Sidney L., Frick, and Reid. 3,143,548.
Vail, Sidney L., Moran, and Reid. 3,160,469.
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Dwyer, Francis G., Eastwood, Reid, and Schwartz. 3,161,489.
Eastwood, Sylvander C., Reid, and Schwartz. 3,161,488.
Reid, Luther J., Jr., and A. B. Schwartz, to Socony Mobil Oil Co., Inc. Drying method. 3,151,951, 10–6–64, Cl. 34—9.
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Frishman, Daniel. 3,139,093.
Reid, Robert J.: *See*—
Conard, Wendell R., and Reid. 3,143,522.
Reid, Robert L. Means for lifting moisture from a body of water. 3,135,466, 6–2–64, Cl. 239—14.
Reid, Stanley L., to Monsanto Co. Process for preparing N-chloroimines. 3,137,728, 6–16–64, Cl. 260—566.
Reid, Theodore C. Distress signal device. 3,132,626, 5–12–64, Cl. 116—124.
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Whalon, Ernest G., Reid, and Osowski. 3,133,335.
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Reifel, Harry, to Stevens-Arnold Inc. Electromagnet vibrator reed switches. 3,151,228, 9–29–64, Cl. 200—90.
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Reifers, Richard F., and H. A. Lord, to Diamond National Corp. Molded pulp egg carton method. 3,123,519, 3–3–64, Cl. 162—223.
Reifers, Richard F., and H. A. Lord, to Diamond National Corp. Carton. 3,138,313, 6–23–64, Cl. 229—2.5.
Reifers, Richard F., and H. A. Lord, to Diamond National Corp. Carton. 3,138,314, 6–23–64, Cl. 229—2.5.
Reifers, Richard F., T. B. Kennedy, and W. J. Hrozenchik, to Diamond National Corp. Banana tray and package. 3,139,-348, 6–30–64, Cl. 99—171.
Reifers, Richard F., and H. A. Lord, to Diamond National Corp. Divisible molded article. 3,145,896, 8–25–64, Cl. 229—2.5.
Reifschneider, Walter, to The Dow Chemical Co. Benzyl ether thioethers. 3,124,619, 3–10–64, Cl. 260—609.
Reifschneider, Walter, to The Dow Chemical Co. Alkanone thioethers. 3,153,672, 10–20–64, Cl. 260—590.
Reifschneider, Walter, to The Dow Chemical Co. Aryloxyarylthioalkenyl ethers. 3,155,733, 11–3–64, Cl. 260—609.
Reifschneider, Walter, to The Dow Chemical Co. Polychalkogen ethers. 3,162,689, 12–22–64, Cl. 260—609.
Reighart, June H. Water-cooled furnace door frame. 3,120,-217, 2–4–64, Cl. 122—498.
Reighart, June H., E. E. McVey, and J. H. Opre. Spacing and locking device for roof arch centers. 3,131,790, 5–5–64, Cl. 189—36.
Reiland, Frank D., to Gateway Erectors, Inc. Reinforcement and anchoring device for dovetail metallic channel. 3,121,-978, 2–25–64, Cl. 50—474.
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Reilly, Frederick W. Adjustable pallet rack construction. 3,151,745, 10–6–64, Cl. 211—148.
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Reilly, John H., to Industrial Polymer, Inc. Processing plastic and other multiphase materials. 3,147,514, 9–8–64, Cl. 18—2.
Reilly, Joseph P. Reciprocating piston pulse jet engine. 3,163,001, 12–29–64, Cl. 60—35.6.
Reilly, Kenneth W. Protective hub closure. 3,126,232, 3–24–64. Cl. 308—36.3.
Reilly, Kenneth W. Protective hub closure. 3,149,883, 9–22–64, Cl. 301—108.
Reilly, Richard J., to Honeywell Inc. Pressure responsive device. 3,153,934, 10–27–64, Cl. 73—388.
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Feldhake, Ralph H. 3,155,677.
Reilly, Thomas A. Apparatus for the production of a food article. 3,139,043, 6–30–64, Cl. 107—1.
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Reilly, Walter T., and L. Di Donato, to The General Tire & Rubber Co. Method of and apparatus for forming thermoplastic sheet material. 3,123,863, 3–10–64, Cl. 18—19.
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Reiman, Peter A., to Fram Corp. Method of forming a fiber glass water coalescing media and article thereof. 3,142,-612, 7–28–64, Cl. 162—145.
Reimann, Hans, and D. H. Gould, to Schering Corp. 6,17*a*-disubstituted 9*α*,11*β*-dihalogeno derivatives of A-ring unsaturated pregnane 3,20-diones. 3,127,425, 3–31–64, Cl. 260—397.3.
Reimann, Hans, and D. H. Gould, to Schering Corp. C-ring halogenated progesterones. 3,131,200, 4–28–64, Cl. 260—397.3.
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Reimer, Charles B., to Eli Lilly and Co. Method and apparatus for calibrating electron-microscope magnification. 3,156,820, 11–10–64, Cl. 250—49.5.
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Reimer, William A., to Automatic Electric Laboratories, Inc. Packaging arrangements for devices employing photoconductive panels and electroluminescent panels. 3,136,894, 6–9–64, Cl. 250—213.
Reimer, William A., to Automatic Electric Laboratories, Inc. Package method for producing a memory system. 3,139,-668, 7–7–64, Cl. 29—155.5.
Reimers, Frederick E., M. D. Miller, and F. Bush, to American Sugar Co. Dry pulverulent sugar products and process for producing same. 3,140,201, 7–7–64, Cl. 127—63.
Reimers, Frederick E., M. D. Miller, and E. Naborney, to American Sugar Co. Method and apparatus for agglomeration. 3,143,428, 8–4–64, Cl. 99—141.

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Schrodt, Rudolf. 3,129,960.
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Reinartz, Robert, and H. Fischer, to Maschinenfabrik Augsburg-Nürnberg A.G. Registering adjustment for multi-color printing. 3,125,022, 3–17–64, Cl. 101—183.
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Reinecke, Henry, Jr., R. W. Hofheimer, and K. E. Perry, to Massachusetts Institute of Technology. Current-operated diode logic gates. 3,124,708, 3–10–64, Cl. 307—88.5.
Reinecke, Marvin E., to Phillips Petroleum Co. Fast response thermal conductivity cell. 3,134,257, 5–26–64, Cl. 73—27.
Reinecke, Marvin E., and E. Guenther, to Phillips Petroleum Co. Pneumatically-actuated diaphragm valve. 3,139,755, 7–7–64, Cl. 73—422.
Reinecke, Marvin E., and B. O. Ayers, to Phillips Petroleum Co. Thermochromatographic apparatus and method of analysis. 3,152,470, 10–13–64, Cl. 73—23.1.
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Reiners, Neville M., to Cummins Engine Co., Inc. Fuel supply system. 3,125,078, 3–17–64, Cl. 123—32.
Reiners, Neville M., to Cummins Engine Co., Inc. Fuel injector. 3,146,949, 9–1–64, Cl. 239—92.
Reiners, Neville M., to Cummins Engine Co., Inc. Fuel supply apparatus for an internal combustion engine. 3,159,-152, 12–1–64, Cl. 123—140.
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Reinert, Milton J., and D. A. Talonn, to Med-Science Electronics, Inc. Spirometer. 3,154,068, 10–27–64, Cl. 128—2.08.
Reinert, Owen E., to Sperry Rand Corp. Control systems whereby the D.C. output voltage can be controlled between its maximum positive and negative values. 3,131,343, 4–28–64, Cl. 321—16.
Reinfeld, Kurt, and R. S. Cotton, to Koppers Co., Inc. Adjustable sinter breaker apparatus. 3,154,622, 10–27–64, Cl. 266—20.
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Reinhardt, Heinz F., to E. I. du Pont de Nemours and Co. Tetrahydropyranyl isocyanates. 3,133,088, 5–12–64, Cl. 260—345.8.
Reinhardt, Nicholas, to Edgerton, Germeshausen & Grier, Inc. Apparatus for producing glazing coatings. 3,158,508, 11–24–64, Cl. 118—64.
Reinhardt, Paul W., and F. J. Davis, to United States of America, Atomic Energy Commission. Neutron dosimeter utilizing a fission foil. 3,140,398, 7–7–64, Cl. 250—83.1.
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Reinhart, Juel R. and G. L. Material handling loader with retaining rotor. 3,155,254, 11–3–64, Cl. 214—144.
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Reining, Helmut P. O. G.: *See*—
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Reining, Karl G., deceased (by H. P. O. G. Reining, executor), H. P. O. G. Reining, and G. Reiche. Door framework for open hearth furnaces or other industrial furnaces. 3,148,-666, 9–15–64, Cl. 122—497.
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Reinke, Theodore S. Crab processing means. 3,151,351, 10–6–64, Cl. 17—2.
Reinker, Gerald E., and H. G. Richardson, Jr., to General Electric Co. Sectionalized crucible. 3,131,920, 5–5–64, Cl. 263—48.
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Reisner, David B., S. Gister, and H. C. Klein, to Nopco Chemical Co. 2-acylamido-5-nitrothiazole. 3,124,588, 3–10–64, Cl. 260—306.8.
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Reiss, Edmund F., to The Stanley Works. Shelf suspension system. 3,136,520, 6–9–64, Cl. 248—243.
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Reiss, Edmund F., and W. J. MacFarlane, to The Stanley Works. Guide and control assembly for folding doors. 3,138,474, 6–23–64, Cl. 160—206.

Reiss, Raymond H., Sr., P. R. T. Hahn, and R. J. Randall, to Ronthor Reiss Corp. Drawer divider support. 3,140,791, 7–14–64, Cl. 217—7.
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Reiter, Victor, and S. Richman. Chaise lounge. 3,126,225, 3–24–64, Cl. 297—28.
Reiterer, Ferdinand, to Whitin Machine Works. Carding machines for textile fibres. 3,120,030, 2–4–64, Cl. 19—105.
Reiterer, Ferdinand, to Whitin Machine Works. Card clothing. 3,136,005, 6–9–64, Cl. 19—114.
Reiterer, Ferdinand, to Whitin Machine Works. Controlled flow distribution nozzle. 3,145,427, 8–25–64, Cl. 19—106.
Reiterer, Ferdinand, to Whitin Machine Works. Pneumatic web removal in carding machines. 3,145,428, 8–25–64, Cl. 19—106.
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Reitfort, Henry A., to International Business Machines Corp. Multiplex computer inquiry stations. 3,117,306, 1–7–64, Cl. 340—172.54.
Reithel, Robert J., to United States of America, Atomic Energy Commission. Low voltage detonator system. 3,158,098, 11–24–64, Cl. 102—28.
Reitherman, Ralph, to Small Motors Inc. Synchronous and induction motor operation from a D.C. source by means of a solid state inverter integral with the motor. 3,156,-858, 11–10–64, Cl. 318—138.
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Relation, Alfred E., and R. W. Lucky, to Westinghouse Electric Corp. Inverter using discontinuous control type valves. 3,118,105, 1–14–64, Cl. 321—45.
Relation, Alfred E., R. P. Putkovich, and T. M. Corry, to Westinghouse Electric Corp. Semiconductor protection circuit. 3,129,374, 4–14–64, Cl. 321—14.
Relaxo-Bak, Inc.: *See*—
Newton, Fred P. 3,138,404.
Reliable Attachment Co.: *See*—
Weigert, Karl. 3,123,033.
Reliable Electric Co.: *See*—
Baxter, Donald L., and Summers. 3,153,693.
Koletsos, Peter K., and Shrewsbury. 3,140,138.
Schreyer, John W. 3,144,500.
Shrewsbury, George R. 3,141,643.
Smith, Donald J. 3,152,668.
Reliance Camera & Photo Supplies Inc.: *See*—
Kent, Owen. 3,160,349.
Reliance Controls Ltd.: *See*—
Oram, Daphne B. 3,156,890.
Reliance Electric and Engineering Co.: *See*—
Glasson, Woodrow R., and Voss. 3,138,033.
Reliance Steel Products Co.: *See*—
Braun, Ottwin L. 3,155,080.
Braun, Ottwin L. 3,156,218.
Nagin, Harry S. and H. 3,156,168.
Reliance Varnish Co., Inc.: *See*—
Kinder, Orville L. 3,144,297.
Reliquefier Corp.: *See*—
Ellis, Herbert B. 3,153,917.
Relle, Vernon J., to Totalisators Ltd. Encoding devices. 3,146,437, 8–25–64, Cl. 340—347.
Reller, Herbert H., and W. E. Jordan, to The Procter & Gamble Co. Halogenated solicylanilide-halogenated trifluoromethyldiphenyl urea synergistic compositions. 3,134,711, 5–26–64, Cl. 167—30.
Reller, Lucille S., and C. C. Knotek. Dripless rim for a container. 3,145,887, 8–25–64, Cl. 222—571.
Rellumit Inter S.a.R.L.: *See*—
Muller, Jacques. 3,142,281.
Relph, Earl B., and H. A. Dahl, to A. B. Dick Co. Lithographic plates and method for manufacture. 3,157,117, 11–17–64, Cl. 101—149.2.
Relph, James M., and C. G. Minkler, to King-Seeley Thermos Co. Auger ice making machine. 3,162,022, 12–22–64, Cl. 62—320.
Relyea, Donald P.: *See*—
Uphoff, Russel L., and Relyea. 3,153,928.
Relyea, Douglas I., to United States Rubber Co. 2,2'-dithobisisobutyronitrile. 3,133,955, 5–19–64, Cl. 260—465.8.
Relyea, Douglas I., to United States Rubber Co. 3,6-di(benzothiazolylthio) pyridazine. 3,161,639, 12–15–64, Cl. 260—250.
Relyea, Douglas I., to United States Rubber Co. 3,6-bis(diloweralkylaminoanilino)-pyridazines. 3,161,640, 12–15–64, Cl. 260—250.
Rem Corp.: *See*—
Van Syoc, Auburn G., Sr. 3,120,976.
Van Syoc, Auburn G., Sr. 3,126,189.
Reman, Gerrit H., and H. Groothuis, to Shell Oil Co. Residual oil refining process. 3,159,571, 12–1–64, Cl. 208—251.
Remane, Roger, to Airkem, Inc. Aerosol valve device. 3,158,-326, 11–24–64, Cl. 239—573.
Remanick, Allen H., to Aerojet-General Corp. Process for preparing hydrazino S-tetrazines. 3,151,111, 9–29–64, Cl. 260—241.
Rembercontainer, Inc.: *See*—
Geyer, Paul G. T. 3,148,803.
Remenyik, Tibor, to A. A. Halacsy. Cooling arrangement for electrical apparatus having at least one multilayer winding. 3,142,809, 7–28–64, Cl. 336—61.
Remes, Nathaniel L., and T. W. Martinek, to The Pure Oil Co. Separation and purification of fatty acid amines. 3,131,221, 4–28–64, Cl. 260—583.
Remington Arms Co., Inc.: *See*—
Aitken, William H. 3,135,141.
Aitken, William H. 3,138,977.
Carriere, Maurice M., Casey, Ervine, Hamil, Schimpf, Smith, and Turner. 3,123,959.
Catlin, Robert T., Landa, Service, and Swain. 3,126,630.
Clay, Franklin B. 3,117,043.
Collins, William W., Ervine, and Smith. 3,133,623.
Covey, John R. 3,138,056.
Daubenspeck, Benjamin K., Olson, Rickey, and Whipple. 3,157,121.
Hartman, Robert B. 3,138,173.
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Kenney, Joseph F. 3,131,102.
Lind, Raymond E., and Venn. 3,121,938.
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Remington, Elliott L., to Draper Corp. Filling carrier for shuttleless looms. 3,116,761, 1–7–64, Cl. 139—122.
Remington, Frederic, and R. A. Tartaglia, to Peerless Tube Co. Metallic collapsible tubes having plastic necks. 3,124,273, 3–10–64, Cl. 222—92.
Remington, Ward J., to E. I. du Pont de Nemours and Co. Cellular polyurethane materials and process for preparing same. 3,145,185, 8–18–64, Cl. 260—2.5.
Remiss, Albert O., and G. D. Rehklau, to Ampex Corp. Self-threading device. 3,126,161, 3–24–64, Cl. 242—55.12.
Remital Societa per Azioni Studio e Realizzazioni Elettromeccaniche: *See*—
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Buralli, Ettore. 3,125,308.
Remke, Inc.: *See*—
Remke, Theodore K., and Monet. 3,120,972.
Remke, Marvin A., and L. E. Kuntz, to Phillips Petroleum Co. Measuring the water content in oil and water mixtures. 3,133,437, 5–19–64, Cl. 73—53.
Remke, Theodore K., and E. T. Monet, to Remke, Inc. Lock construction. 3,120,972, 2–11–64, Cl. 292—169.
Remley, Mary E., deceased; R. E. Remley, Jr., executor, assor. to himself. Liquid applicator. 3,137,024, 6–16–64, Cl. 15—562.
Remley, Roland E., Jr.: *See*—
Remley, Mary E. 3,137,024.
Remmele Engineering, Inc.: *See*—
Toensing, James W. 3,130,600.
Remmers, Edward G., W. C. Barringer, and L. Ritter, to American Cyanamid Co. Complexes of tetracycline antibiotics and preparation of same. 3,122,578, 2–25–64, Cl. 260—448.
Remmers, Edward G., W. C. Barringer, and G. M. Sieger, to American Cyanamid Co. Stable aqueous glycol solution of tetracycline aluminum calcium gluconate complex having a pH of about 7.5 to 9. 3,159,542, 12–1–64, Cl. 167—65.
Remonte, John, 45% to B. Miller. Ozone generator. 3,124,-525, 3–10–64, Cl. 208—179.
Rempel, Robert C., C. E. Ward, R. T. Sullivan, M. W. St. Clair, and H. E. Weaver, to Varian Associates. Gyromagnetic resonance method and apparatus. 3,122,703, 2–25–64, Cl. 324—.5.
Remwood Chemical Co.: *See*—
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Chaboche, Miguel. 3,128,900.
Ren Plastics, Inc.: *See*—
Renaud, Harold J. 3,128,053.
Renaud, Harold E. 3,161,919.

Renaer, Inc.: *See*—
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Daffer, George H. 3,139,635.

Renard, Andre M., to Sperry Rand Corp. Non-destructive sensing memory. 3,130,388, 4–21–64, Cl. 340—173.

Renaud, Harold E., to Ren Plastics, Inc. Resin-bonded molds, dies, fixtures and the like. 3,161,919, 12–22–64, Cl. 18—47.

Renaud, Harold J., to Ren Plastics, Inc. Equipment for compounding materials. 3,128,053, 4–7–64, Cl. 241—101.

Renault, Jean C., to Gabilan Iron and Machine Co. Earth working roller unit. 3,136,078, 6–9–64, Cl. 37—146.

Renaut, Claude: *See*—
Ganouna-Cohen, Gilbert, Dieval, Renaut, Rigaut, and Savouyaud. 3,153,710.

Renaut, Paul, to Societe Realisations Ultrasoniques. Apparatus for continuous inspection of sheets and leaves. 3,163,784, 12–29–64, Cl. 310—8.7.

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Dye, Robert F., and Renberg. 3,141,742.

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Newman, Howard F., Dlouhy, and Rench. 3,159,972.

Renckhoff, Gustav, R. Junghaehnel, and W. Wolfes, to Chemische Werke Witten G.m.b.H. Esters of azido-acetic acid with chlorinated phenols. 3,135,771, 6–2–64, Cl. 260—349.

Renda, Carmen J., to Automatic Sprinkler Corp. of America. Fire protection system. 3,139,143, 6–30–64, Cl. 169—19.

Rendel, George H.: *See*—
Carter, Daniel T., and Rendel. 3,129,457.

Render, Cecil H. Lounging chairs. 3,132,899, 5–12–64, Cl. 297—423

Renforth, Jackie C.: *See*—
Hashman, Joseph S., Renforth, and Berkstresser. 3,119,-665.

Renfrew, Edgar E.: *See*—
Taber, David, Renfrew, and Pons. 3,152,110.
Taber, David, Renfrew, and Pons. 3,155,645.

Renfrew, Paul B., to Rockwell Mfg. Co. Turbine-type metering device. 3,162,422, 12–22–64, Cl. 253—148.

Renfro Hosiery Mills, Inc.: *See*—
Merritt, Hugh L. 3,142,164.

Renfro, John C. Method of making humus. 3,138,449, 6–23–64, Cl. 71—24.

Renfroe, Charles C. Power driven ridge reamer. 3,146,562, 9–1–64, Cl. 51—241.

Renfroe, J. C., & Sons, Inc.: *See*—
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Renfroe, Lester C. Method of eviscerating scallops. 3,129,-456, 4–21–64, Cl. 17—45.

Renfroe, Raymond L. Lifting clamp. 3,162,476, 12–22–64, Cl. 294—101.

Renfroe, Robert C., to J. C. Renfroe & Sons, Inc. Lifting clamps. 3,163,457, 12–29–64, Cl. 294—67.

Renfrow, Donald D. Grinding wheel dressers for surface grinders. 3,139,878, 7–7–64, Cl. 125—11.

Renick, Wendell E.: *See*—
Adams, Cecil E., and Renick. 3,139,105.

Renick, William F.: *See*—
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Renius, Robert G.: *See*—
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Hein, Joseph F., and Renius. 3,128,639.

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Renkes, Dieter, and G. Brinkmann, to Mannesmann Aktiengesellschaft. Feed system for shaft furnaces. 3,137,399, 6–16–64, Cl. 214—35.

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Dolph, James L., and Renkey. 3,154,624.
McGreight, Donald O., Davies, and Renkey. 3,144,345.

Renkin, Robert F., to Sharon Steel Corp. Method of making high tensile strapping. 3,117,895, 1–14–64, Cl. 148—12.4.

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Renner, Herbert, H. Hayek, J. Zemann, and J. Eisenwiener, to P. Stoll. Process for coating objects in a flow coater. 3,146,122, 8–25–64, Cl. 117—102.

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Schaadt, Franz, and Renner. 3,146,711.
Wehlow, Karl-Otto, Woyt, and Renner. 3,144,828.

Renner, Hermann, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Reduction of zirconium and hafnium tetrachlorides with liquid magnesium. 3,137,568, 6–16–64, Cl. 75—84.5.

Renner, Hermann, to Deutsche Gold-und Scheideanstalt vormals Roessler. Production of extremely pure zirconium. 3,147,108, 9–1–64, Cl. 75—84.

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Renner, Josef. Oil burner. 3,143,163, 8–4–64, Cl. 158—36.3.

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Renner, Theodor, to Siemens-Schuckertwerke Aktiengesellschaft. Method of producing boron iodide. 3,160,475, 12–8–64, Cl. 23—205.

Rennhack, Elliott H., to The New Jersey Zinc Co. Copper-cobalt infiltrant for iron powder. 3,128,177, 4–7–64, Cl. 75—153.

Rennhard, Hans H., L. H. Conover, P. N. Gordon, and C. R. Stephens, Jr., to Chas. Pfizer & Co., Inc. Derivatives of the tetracycline-type antibiotics. 3,117,159, 1–7–64, Cl. 260—559.

Rennick, John L.: *See*—
Heur, Charles H., and Rennick. 3,138,730.

Rennick, John L., to Zenith Radio Corp. Color television transmitter. 3,133,148, 5–12–64, Cl. 178—5.4.

Renninger, Otto, to Konrad Doppelmayr & Sohn, Maschinenfabrik. Aerial cableways. 3,140,670, 7–14–64, Cl. 104—178.

Reno, Billy A. Combined coin holder and exhibitor. 3,155,-236, 11–3–64, Cl. 206—.82.

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Rensch, Joseph T., and E. F. Self-locking hopper attachment. 3,151,779, 10–6–64, Cl. 222—181.

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Rentschler, John H., to Minnesota Rubber Co. Low pressure seal. 3,158,376, 11–24–64, Cl. 277—205.

Rentschler, John W. Anti-theft means for fuel delivery truck. 3,123,175, 3–3–64, Cl. 180—82.

Rentschler, John W. Anti-theft means for fuel delivery truck. 3,148,931, 9–15–64, Cl. 346—14.

Rentschler, Waldemar T., to Alfred Gauthier, G.m.b.H. Photographic camera. 3,131,618, 5–5–64, Cl. 95—10.

Rentschler, Waldemar T., to Alfred Gauthier, G.m.b.H. Photographic camera having a built-in exposure meter and means for operating the camera automatically or manually. 3,131,619, 5–5–64, Cl. 95—10.

Rentschler, Waldemar T., to Alfred Gauthier, G.m.b.H. Photographic camera with coupled exposure meter and interchangeable lens assemblies. 3,134,316, 5–26–64, Cl. 95—64.

Rentschler, Waldemar T., to Alfred Gauthier G.m.b.H. Photographic camera with built-in exposure meter. 3,145,633, 8–25–64, Cl. 95—10.

Rentschler, Waldemar T., to Alfred Gauthier, G.m.b.H. Photographic camera. 3,148,604, 9–15–64, Cl. 95—10.

Rentschler, Waldemar T., to Alfred Gauthier, G.m.b.H. Photographic camera. 3,148,608, 9–15–64, Cl. 95—64.

Rentschler, Waldemar T., to Alfred Gauthier, G.m.b.H. Photographic camera with automatic and manual exposure setting. 3,153,994, 10–27–64, Cl. 95—10.

Rentschler, Waldemar T., to Alfred Gauthier, G.m.b.H. Photographic intra-lense shutter. 3,153,997, 10–27–64, Cl. 95—63.

Rentschler, Waldemar T., to Alfred Gauthier, G.m.b.H. Photographic intra-lens shutter with reciprocating shutter blades. 3,153,999, 10–27–64, Cl. 95—63.

Rentschler, Waldemar T., and F. W. R. Starp, to Alfred Gauthier, G.m.b.H. Photographic shutter construction. 3,153,996, 10–27–64, Cl. 95—63.

Rentzepis, Peter M., to General Electric Co. Combination washing machine and cleansing medium generator. 3,130,-570, 4–28–64, Cl. 68—13.

Renwick, Frederick W., Sr., and G. Bush, to Hollwick, Inc. Artificial candle. 3,158,015, 11–24–64, Cl. 67—53.

Renwick, Norman H. F.: *See*—
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Hampton, Verner W., Renwick, and Green. 3,119,349.

Renyi, Anthony: *See*—
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Renyi, Florindo: *See*—
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Renz, Jany: *See*—
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Renz, Jany, J. Bourquin, H. Winkler, and P. Gagnaux, to Fidelity Union Trust Co. Preparation of 3-nitro-4-bromothioanisole. 3,159,683, 12–1–64, Cl. 260—609.

Renzing, Otto A. W., P. H. A. Kaisler, and W. K. Lanfermann, to Eickhoff, Gebr., Maschinenfabrik u Eisengiessere m.b.H. Transverse clearing machine, especially for use in connection with mining machines for underground mining. 3,156,348, 11–10–64, Cl. 198—226.

Repco Products Corp.: *See*—
Bunten, Paul H. 3,141,499.

Repko, John P., to The Dow Chemical Co. Elastic film dispenser-pak. 3,124,298, 3–10–64, Cl. 229—66.

Repko, John P., to The Dow Chemical Co. Packaging arrangements. 3,162,539, 12–22–64, Cl. 99—171.

Replex Proprietary Ltd.: *See*—
Watt, John. 3,143,327.

Replogle, Edward H., ½ to Scott Aviation Corp. Quickly applied breathing mask and associated head harness. 3,117,574, 1–14–64, Cl. 128—146.

Replogle, Edward H., to Scott Aviation Corp. Pressure reducing regulator. 3,156,174, 11–10–64, Cl. 98—1.5.

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Mannino, Anthony J., and Wilcox. 3,137,887.
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Martin, Paul W. 3,149,366.
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Republic Steel Corp.: *See*—
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Harmon, William C. 3,144,764.
Hollis, Louis, and Nolder. 3,122,459.
Judd, Tyler W. 3,123,999.
Mosinski, Joseph J. 3,127,995.
Reed, William A., and Roblin. 3,146,183.
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Shepard, George A., and Brooker. 3,117,887.
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Resco Products, Inc.: *See*—
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Rising, Hawley K., and Briggs. 3,131,295.
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Tolbert, Nathan E. 3,156,555.

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Research Institute for Iron, Steel and Other Metals of The Tokoku University, The: *See*—
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Janssen, Paul A. J. 3,125,580.
Janssen, Paul A. J. 3,141,021.
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Janssen, Paul A. J. 3,155,670.
Janssen, Paul A. J. 3,161,637.
Janssen, Paul A. J. 3,161,644.
Janssen, Paul A. J. 3,161,645.
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Anthon, Erik W. 3,151,073.
Anthon, Erik W. 3,155,109.
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Resek, Marc. Oil-burning incinerator. 3,151,581, 10–6–64, Cl. 110—8.

Reserve Mining Co.: *See*—
Henderson, Ashland S., and Riede. 3,139,578.

Resines et Vernis artificiels: *See*—
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Resinoid Engineering Corp.: *See*—
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Resnick, Paul: *See*—
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Resnick, William, to Standard Oil Co. Resinous polyolefin treatment. 3,156,677, 11–10–64, Cl. 260—88.2.

Resnik, Arnold E., to United States of America, Navy. Doppler radar system. 3,158,859, 11–24–64, Cl. 343—7.

Resor, John C., to E. I. du Pont de Nemours and Co Apparatus for combining a plurality of ribbon-like filament bundles into a single sheet of filaments. 3,145,429 8–25–64, Cl. 19—157.

Resor, John C., to E. I. du Pont de Nemours and Co. Fiber cutting apparatus with opposed guide elements. 3,161,100, 12–15–64, Cl. 83—403.

Respess, Richard D., to Jno. H. Swisher & Son, Inc. Cigar squaring method and apparatus. 3,138,164, 6–23–64, Cl. 131—20.

Ressler, Hugh C., to Hogan Faximile Corp. Start stop oscillator. 3,139,594, 6–30–64, Cl. 331—173.

Ressler, Hugh C., J. W. Smith, and G. M. Stamps, to Hogan Faximile Corp. Communications recording system. 3,125,633, 3–17–64, Cl. 178—6.6.

Ressler, Lloyd. Electric razor with a shear plate having different types of shearing sections movable into shearing position. 3,138,866, 6–30–64, Cl. 30—43.

Restivo, Albert R., to Olin Mathieson Chemical Co. 3-(hydrocarbonthio) - 2 - (tri - O - benzoylribofuranosyl) - as - triazin-5(2H)-ones and process therefor. 3,135,737, 6–2–64, Cl. 260—211.5.

Retallick, William B. Rotary valve. 3,146,795, 9–1–64, Cl. 137—625.17.

Retford, David T., to Dow Corning Corp. Highly filled vinyl polysiloxane potting composition. 3,137,665, 6–16–64, Cl. 260—18.

Retherford, Horace G. Carrot peeler. 3,160,185, 12–8–64, Cl. 146—203.

Rethwish, William F.: *See*—
Rohr, Fred H., Lacey, Rethwish, and Harding. 3,163,742.

Rethwish, William F., D. S. Harding, K. W. Maynard, and C. H. Easley, to Rohr Corp. Core lowering apparatus for fabricating honeycomb core. 3,139,512, 6–30–64, Cl. 219—82.

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Rett Electronics, Inc.: *See*—
Scott, William N. 3,153,155.

Rettig, Charles E.: *See*—
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Retz, Philip. Construction under low temperature conditions. 3,153,912, 10–27–64, Cl. 61—50.

Retz, William B., to The New Britain Machine Co. Lead screw feed means with lead screw and nut movable as a unit to effect fast approach. 3,134,996, 6–2–64, Cl. 10—105.

Retzlaff, William A. Method and means for storing, transporting and final mixing of cementitious material. 3,144,-242, 8–11–64, Cl. 259—148.

Reudink, Hendrik L., to Shell Oil Co. Metal rope lubricant. 3,125,522, 3–17–64, Cl. 252—33.4.

Reuge, Guido, to Reuge S.A. Vertical push-button ashtray. 3,153,969, 10–27–64, Cl. 84—95.

Reuge S.A.: *See*—
Reuge, Guido. 3,153,969.

Reukauf, William B., to Carey-McFall Co. Branch for artificial tree. 3,133,851, 5–19–64, Cl. 161—22.

Reukauf, William B., to Carey-McFall Co. Apparatus for winding foil about a rigid rod. 3,140,970, 7–14–64, Cl. 156—447.

Reumerman, Theodorus, and W. H. T. Helmig. Aircraft altimeters. 3,125,754, 3–17–64, Cl. 343—13.

Reusch, Frederick J., Sr. Control system for an oil burner 3,145,761, 8–25–64, Cl. 158—42.1.

Reuschel, Konrad, to Siemens-Schuckertwerke Aktiengesellschaft. Vapor deposition onto stacked semiconductor wafers followed by particular cooling. 3,140,965, 7–14–64, Cl. 148—175.

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Reusser, Hans E.: *See*—
Below, Robert F., and Reusser. 3,141,533.
Reusser, Pierre: *See*—
Benz, Fritz, Gaeumann, Neipp, Reusser, Stalder, and Wettstein. 3,131,124.
Reusser, Robert E., and J. L. Hart, to Phillips Petroleum Co. Recovery of uranium and vanadium values. 3,151,932, 10–6–64, Cl. 23—14.5.
Reustle, Frank A., and J. V. Scarpa. Insecticide dispensing apparatus. 3,151,746, 10–6–64, Cl. 213—124.
Reuter, Franz G.: *See*—
Szonn, Reinhold E., and Reuter. 3,144,247.
Ulderup, Jurgen, and Reuter. 3,135,539.
Reuter, Martin: *See*—
Orthner, Ludwig, Reuter, Landauer, Junghanns, and Schmidt. 3,131,159.
Reuter, Peter G., to General Electric Co. Airfoil controlling actuator. 3,125,000, 3–17–64, Cl. 91—186.
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Reuther, Martin E., and W. A. Stringer, to General Motors Corp. Conduit assembly. 3,151,905, 10–6–64, Cl. 296—44.
Reuther, Richard H., E. M. Kasinkas, and A. L. McConnell, to Scott Paper Co. Containers and method of making same. 3,160,273, 12–8–64, Cl. 206—56.
Reuvers, Andrew A., and C. Berari. Lay out tool. 3,135,051, 6–2–64, Cl. 33—26.
Revallier, Leonardus J.: *See*—
Bigot, Johan A., Meyerink, and Revallier. 3,119,814.
Revan-Rosenstock, Alfred. Denture storage box for home use. 3,133,305, 5–19–64, Cl. 15—511.
Reveal, William S., and W. E. Ross, to Shell Oil Co. Isomerization of hexanes with Friedel-crafts catalyst. 3,156,738, 11–10–64, Cl. 260—683.75.
Revco, Inc.: *See*—
Tenniswood, Howard J. 3,127,930.
Von Arb, Edward J., Dunbar, and Clement. 3,136,270.
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Revell, Alan E., to American Air Filter Co., Inc. Plate electrode assembly. 3,149,937, 9–22–64, Cl. 55—137.
Revell, Alan E., to American Air Filter Co., Inc. Fluid treating structure for electrostatic precipitators. 3,159,471, 12–1–64, Cl. 55—118.
Revell, Alan E., to American Air Filter Co., Inc. Electrostatic gas cleaning apparatus. 3,159,472, 12–1–64, Cl. 55—118.
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Hawthorne, Lowell H. 3,125,670.
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Ciavatta, Armando. 3,124,770.
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Revlon, Inc.: *See*—
Silson, John E., and Frangos. 3,155,574.
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Williams, Arthur H. 3,162,456.
Rex, Charles, H., and D. L. Wood, to General Electric Co. Street lighting luminaire. 3,160,350, 12–8–64, Cl. 240—106.
Rex, Donald K.: *See*—
Brearley, Donald W., and Rex. 3,145,586.
Darwin, Daniel P., and Rex. 3,163,373.
Nelson, Roland D., and Rex. 3,155,033.
Rex, Raymond H., to Owens-Illinois Glass Co. Method of and apparatus for making plastic articles. 3,127,637, 4–7–64, Cl. 18—30.
Rex Research Corp.: *See*—
Hedenburg, Oscar F. 3,117,135.
Hedenburg, Oscar F. 3,117,136.
Rexall Drug and Chemical Co.: *See*—
Apri, Leida M. and E. V. 3,162,202.
Hurst, Edward. 3,121,981.
Hurst, Edward. 3,146,560.
Lussier, Leon E. and O. E., and Swett. 3,146,484.
Swett, James B. 3,146,906.
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Tupper, Earl S. 3,155,233.
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MacLean, Philip A. 3,137,481.
Rexroad, James O., to Westinghouse Electric Corp. Enclosure having an external operating handle for operating an enclosed circuit interrupter. 3,141,074, 7–14–64, Cl. 200—50.
Rey, Fernard. Sealing device for collection truck container with automatic pivotal loading hood. 3,152,707, 10–13–64, Cl. 214—303.
Rey-Bellet, Gérald, R. Schläpfer, H. Spiegelberg, and K. Doebel, to Hoffmann-La Roche Inc. Processes and intermediates for preparing basic tricyclic compounds. 3,126,411, 3–24–64, Cl. 260—570.8.
Reyes, Juan V. Device for cutting the filling in shuttleless looms with stationary filling reserve. 3,147,778, 9–8–64, Cl. 139—303.
Reyhing, Jorg: *See*—
Linde, Gerhard, Becker, and Reyhing. 3,163,511.
Reymes-Cole, Bernard T. R. Means for controlling yarn in knitting machines. 3,120,115, 2–4–64, Cl. 66—125.
Reymes-Cole, Bernard T. R. Hosiery footwear and method of making. 3,159,988, 12–8–64, Cl. 66—49.
Reymond, Welles K., to Radio Corp. of America. Switching circuit with a capacitor directly connected between the lower of opposite conductivity transistors. 3,160,766, 12–8–64, Cl. 307—88.5.
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Reynier, Roland. Disposable safety razor with integral blade. 3,136,056, 6–9–64, Cl. 30—47.
Reynolds, Boyd F. Windrow moving device. 3,141,284, 7–21–64, Cl. 56—354.
Reynolds, Carl E., to Florida Fishing Tackle Mfg. Co., Inc. Manufacture of pellets from a cast strip. 3,125,794, 3–24–64, Cl. 29—1.22.
Reynolds, Charles B., W. M. Eklund, and D. C. Burklo, to Kaiser Aluminum & Chemical Corp. Method of adding a casing to a refractory article. Re. 25,615, 7–7–64, Cl. 29—470.7.
Reynolds, Donald C.: *See*—
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Middleton, Arthur E., and Reynolds. 3,121,007.
Reynolds, Donald N., to E. I. du Pont de Nemours and Co. Resin coated unwoven fabric. 3,158,525, 11–24–64, Cl. 161—72.
Reynolds, Donald S., to Automatic Canteen Co. of America. Dispensing mechanism. 3,144,962, 8–18–64, Cl. 222—66.
Reynolds, Elmer N. Sprinkler head. 3,127,110, 3–31–64, Cl. 239—204.
Reynolds, Francis D., to The Boeing Co. Hydrorotor craft. 3,125,981, 3–24–64, Cl. 115—50
Reynolds, Frank J. Quick connection for male-female coupling. 3,144,262, 8–11–64, Cl. 285—311.
Reynolds, George A., to Eastman Kodak Co. Photographic silver halide emulsions stabilized with pyrlyium compounds. 3,148,067, 9–8–64, Cl. 96—109.
Reynolds, George A., J. A. Van Allan, and D. G. Borden, to Eastman Kodak Co. New photo-resist benzoylazide compositions. 3,143,423, 8–4–64, Cl. 96—91.
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Reynolds, Grover C. Dental device for obtaining the centric relation of the jaws. 3,143,802, 8–11–64, Cl. 32—19.
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Reynolds, Harold C., to Ingersoll-Rand Co. Impact tool torque limiting control. 3,129,571, 4–21–64, Cl. 64—27.
Reynolds, Harold C., to Ingersoll-Rand Co. Impact wrench with separate inertia means. 3,144,108, 8–11–64, Cl. 192—30.5.
Reynolds, James B., to The Youngstown Steel Door Co. Lading band anchor. 3,125,036, 3–17–64, Cl. 105—369.
Reynolds, James M.: *See*—
Pintauro, Nicholas D., Reynolds, and Newman. 3,147,125.
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Reynolds, James W., and R. L. Cochran, to The Buehler Corp. Reverse steering device for jet boat. 3,146,588, 9–1–64, Cl. 60—35.54.
Reynolds, Jerry. Drag chute packing device. 3,162,001, 12–22–64, Cl. 53—124.
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Reynolds, Kenneth W., and D. V. Malainy, to General Electric Co. Article unloading apparatus. 3,136,428, 6–9–64, Cl. 214—1.
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Reynolds, Marlyn W. Adjustable dispenser hopper drive mechanism. 3,118,571, 1–21–64, Cl. 222—177.
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Kibby, Robert M. 3,156,639.
Mack, Grant V. 3,144,079.
Manning, Clarence F., Staley, and Lewis. 3,128,547.
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Neuhauser, William J., and Villiers. 3,156,357.
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O'Brien, Paul R. 3,153,557.
Robinson, Grover C., Jr. 3,149,960.
Shultz, Richard S. 3,144,934.
Straus, Gus, and Belcher. 3,148,419.
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Wallace, Joseph W. 3,119,508.
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Reynolds, Ralph W., to Holcomb & Hoke Mfg. Co., Inc. Folding door sealing arrangement. 3,156,293, 11–10–64, Cl. 160—40.

Reynolds, Reginald, and P. H. Stammers, to Acrow (Engineers) Ltd. Hydraulic prop valve. 3,134,398, 5–26–64, Cl. 137—493.3.

Reynolds, Robert H. Trailers having laterally swingable sections. 3,157,427, 11–17–64, Cl. 296—23.

Reynolds, Walker, Jr. Surgical retractor. 3,129,706, 4–21–64, Cl. 128—20.

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Benjey, William G., and Reynolds. 3,128,523.

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Reynolds, William H., to American Instrument Co., Inc. Pressure balance. 3,148,528, 9–15–64, Cl. 73—4.

Reynolds, William R. Portable gang plank. 3,134,999, 6–2–64, Cl. 14—71.

Rezaeih, Edward K. F. Apparatus for continuous weighing of a mixture of mud and drilling fluid. 3,147,813, 9–8–64, Cl. 177—1.

Reznek, Solomon, to Sterling Drug Inc. Metering dispenser for powders and the like. 3,127,066, 3–31–64, Cl. 222—190.

Reznek, Solomon, and W. G. Gorman, to Sterling Drug Inc. Magnesia and gold temperature telltale indicators. 3,145,-145, 8–18–64, Cl. 167—78.

Rhea, Hal H., to Carrier Corp. Heat pump control. 3,131,-549, 5–5–64, Cl. 62—228.

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Rhein-Chemie G.m.b.H.: *See*—
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Rhein, John H. W., Jr., to E. I du Pont de Nemours and Co. High speed apparatus for forming and applying transfer tails in textile yarn windup operations. 3,149,795, 9–22–64, Cl. 242—18.

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Rheinlander, Paul, to Huttenwerk Salzgitter Aktiengesellschaft. Process for the operation of blast furnaces. 3,151,974, 10–6–64, Cl. 75—42.

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Rhoads, Delmar D. Pan and tray supports. 3,124,402, 3–10–64, Cl. 312—350.

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Minutilla, Leon C. 3,117,612.
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Rhodes, Alan, B. Boothroyd, K. H. Fantes, M. P. McGonagle, and R. Crosse, to Glaxo Group Ltd. Antibiotic AA368 and method of production. 3,123,530, 3–3–64, Cl. 167—65.

Rhodes, Brian, to Cable Covers Ltd. Stressed concrete structures. 3,137,971, 6–23–64, Cl. 50—128.

Rhodes, Chester R. Bidirectional positioning device. 3,142,-789, 7–28–64, Cl. 317—189.

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Rhodes, James D., ½ to Washington Scale and Equipment Co., Inc., and ½ to Nelson P. Greller and Associates. Lever dolly. 3,157,411, 11–17–64, Cl. 280—47.29.

Rhodes, Joseph F., deceased, B. M. Kristovich, administrator. Rotary internal combustion motor. 3,140,696, 7–14–64, Cl. 123—16.

Rhodes, Junior I., to General Electric Co. Tunnel diode oscillator and convertor circuits. 3,117,281, 1–7–64, Cl. 325—449.

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Rhodes, Keith H., to Walker Mfg. Co. Compressor. 3,120,-338, 2–4–64, Cl. 230—58.

Rhodes, Keith H., to Walker Mfg. Co. Compressor. 3,121,-528, 2–18–64, Cl. 230—139.

Rhodes, Laddie T. Video processing circuit employing pulse stretcher and delay-line to automatically control clipping level of input signals. 3,149,288, 9–15–64, Cl. 328—169.

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Rhodes, Richard E. Multiple probe resistivity measuring apparatus with workpiece support means. 3,134,942, 5–26–64, Cl. 324—62.

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Moles, Warren H., and Rhodes. 3,135,826.

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Jacob, Robert M., and Robert. 3,150,129.
Mancy. Denise I., Ninet, and Preud'homme. 3,154,475.
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Seitz, Karl, and Riat. 3,158,596.

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Riat, Henri, R. De Montmollin, and E. J. Koller, to Ciba Corp. Water-soluble azo dyestuffs. 3,163,635, 12–29–64, Cl. 260—153.

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Ribaudo, Tony, Ironing board construction. 3,126,845, 3–31–64, Cl. 108—117.

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Åkerman, Iwan E. R., and Ribbens. 3,123,093.

Ribbentrop, Annemarie: *See*—
Lettenbauer, Gustav, Popelak, Schaumann, and Ribbentrop. 3,142,680.

Ribchester, Eric: *See*—
Cumbers, Michael B., and Ribchester. 3,127,472.

Ribeiro, Joaquim, and R. E. Tellier, to Jamesbury Corp. Valve operator. 3,160,077, 12–8–64, Cl. 92—13.

Ribeton, Jean, to Société Alsacienne de Constructions Mecaniques. Means for guiding an object along a runway. 3,131,799, 5–5–64, Cl. 193—35.

Ribich, Thomas A., to The Weldon Tool Co. Tool having improved cutting qualities. 3,133,339, 5–19–64, Cl. 29—103.

Ribka, Joachim: *See*—
Fischer, Ernst, Lohe, and Ribka. 3,132,134.

Ribka, Joachim, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Briining. Water-insoluble monoazo-dyestuffs and process for preparing them. 3,157,632, 11–17–64, Cl. 260—193.

Riblet, Henry J. Waveguide filter having nonidentical sections resonant at same fundamental frequency and different harmonic frequencies. 3,153,208, 10–13–64, Cl. 333—73.

Riboni, Ubaldo: *See*—
Cappuccio, Vittorio and Riboni. 3,126,246.
Cappuccio, Vittorio, and Riboni. 3,151,928.

Riboni, Ubaldo, and L. Bartolucci, to Montecatini Societa Generale per l'Industria Mineraria e Chimica. Polyolefins fibres having improved tinctorial characteristics and process for preparing the same. 3,116,066, 1–7–64, Cl. 8—115.5.

Ribovich, John: *See*—
Damon, Glenn H., Ribovich, and Herickes. 3,118,380.

Ricard, Armand G., to Societe Anonyme des Ateliers d'Aviation Louis Brequet. Aircraft fuselage. 3,155,348, 11–3–64, Cl. 244—119.

Ricard, Pierre-Jean, A. G. J. Hirtz, and M. Clayer, to Commissariat a l'Energie Atomique. Liquid moderated nuclear reactors subject to varying movements. 3,152,047, 10–6–64, Cl. 176—20.

Ricateau, Pierre: *See*—
Lecroart, Henri, and Ricateau. 3,151,239.

Ricca, Anton, to Alford Cartons Division, Continental Paper Co. Carton with separable tray. 3,128,935, 4–14–64, Cl. 229—19.

Ricca, Anton, to Europak, Ltd. Carton closing and sealing machine. 3,145,518, 8–25–64, Cl. 53—387.

Riccardi, Benjamin A.: *See*—
Fahrenbach, Marvin J., and Riccardi. 3,148,114.

Ricci, Robert F. J., and A. J. Gaudio. Hair-treating device. 3,128,778, 4–14–64, Cl. 132—9.

Ricciardi, Vincent R. Telescoping implement handle. 3,153,-252, 10–20–64, Cl. 15—143.

Riccio, Edward W. Teaching and testing device. 3,153,863, 10–27–64, Cl. 35—9.

Rice, A. A., Inc.: *See*—
Rice, Arthur A. 3,143,916.

Rice, Albert E. and F. A. Casters. 3,127,632, 4–7–64, Cl. 16—18.

Rice, Alvist V.: *See*—
De Fries, Myron G., and Rice. 3,144,830.

Rice, Alvist V., to Atlantic Research Corp. Closure device. 3,121,310, 2–18–64, Cl. 60—35.6.

Rice, Arthur A., to A. A. Rice, Inc. Collapsible self-anchoring device. 3,143,916, 8–11–64, Cl. 85—71.

Rice, Carl W., Jr.: *See*—
Murray, Guy E., Rayburn and Rice. 3,152,219.

Rice, Cyrus Wm., & Co.: *See*—
Rice, James K. and R. C. 3,149,573.

Rice, David E.: *See*—
Crawford, George H., Jr., and Rice. 3,162,692.

Rice, Edward K.: *See*—
Richards, John R., Dykeman, and Rice. 3,132,403.

Rice, Emory C., Sr. Fish cutting and cleaning machine. 3,139,648, 7–7–64, Cl. 17—3.

Rice, Ernest G., and J. G. Walser, Jr. Combination garment and method of making same. 3,128,475, 4–14–64, Cl. 2—224.

Rice, Ford A.: *See*—
Rice, Albert E. and F. A. 3,127,632.

Rice, Fred J., Jr.: *See*—
Manly, Donald G., O'Halloran, and Rice. 3,163,652.

Rice, Frederic L., Jr., to Phillips Petroleum Co. Method and system for controlling pressure in storage vessels. 3,144,036, 8–11–64, Cl. 137—12.

Rice Growers Association of California: *See*—
Wehr, Franklin H. 3,131,740.

Rice, Harold B.: *See*—
Randrup, Ben F., and Rice. 3,133,389.

Rice, Harold B., and J. G. Aguilar, deceased (by C. Aguilar, administratix), to John Burton Machine Corp. Spotting device for bottles and the like. 3,142,371, 7–28–64, Cl. 198—33.

Rice, Harold W., to Robertshaw Controls Co. Vacuum servo system and the like. 3,142,966, 8–4–64, Cl. 60—60.

Rice, Harold W., and R. D. Beck, to Robertshaw Controls Co. Water temperature selector valve and switch. 3,122,-616, 2–25–64, Cl. 200—61.86.

Rice, Harry L., deceased, by H. Rice, administratrix, to Rubber and Plastics Compound Co., Inc. Liner for a shower stall. 3,139,627, 7–7–64, Cl. 4—146.

Rice, Helen: *See*—
Rice, Harry L. 3,139,627.

Rice, Henry T. M., to Ohlsson & Rice, Inc. Engine starter. 3,127,884, 4–7–64, Cl. 123—185.

Rice, Henry T. M., to Ohlsson & Rice, Inc. Engine starter reel and method of making the same. 3,134,376, 5–26–64, Cl. 123—185.

Rice, Henry T. M., to Ohlsson & Rice, Inc. Crackshaft apparatus. 3,147,638, 9–8–64, Cl. 74—595.

Rice, Henry T. M., to Ohlsson & Rice, Inc. Demand fuel regulator. 3,151,627, 10–6–64, Cl. 137—494.

Rice, Jack O.: *See*—
Lindsey, Joe P., and Rice. 3,163,750.

Rice, James K. and R. C., to Wm. Cyrus Rice & Co. Valved flexible body positive partial displacement fluid pump. 3,149,573, 9–22–64, Cl. 103—37.

Rice, John F.: *See*—
Hills, Henry C., and Rice. 3,122,448.

Rice, Joseph: *See*—
Wright, Esmond P. G., Rice, and Hunter. 3,130,300.

Rice, Knowlton P.: *See*—
Fitch, William H., Rice, and Cox. 3,122,056.

Rice, Leonard M.: *See*—
Freed, Meier E., and Rice. 3,141,020.
Freed, Meier E., and Rice. 3,154,556.
Grogan, Charles H., and Rice. 3,150,143.

Rice, Leonard M., M. E. Freed, and E. Hertz, to American Home Products Corp. Amino substituted penthienoindoles. 3,142,678, 7–28–64, Cl. 260—247.1.

Rice, Leonard M., M. E. Freed, and E. Hertz, to American Home Products Corp. 13-substituted 5,6-dihydro-13H-dibenzo[a,i] carbazoles. 3,144,461, 8–11–64, Cl. 260—315.

Rice, Leonard M., and C. H. Grogan, to The Geschiekter Fund For Medical Research. Tetra (beta-hydroyethyl) methane. 3,154,590, 10–27–64, Cl. 260—635.

Rice, Leonard M., and J. B. Clements, to Celanese Corp. of America. Polymers with spiro structure. 3,161,619, 12–15–64, Cl. 260—78.

Rice, Orval L., to The New York Air Brake Co. Detent. 3,153,949, 10–27–64, Cl. 74—527.

Rice, Owen, C. G. Schneider, and W. E. Swartz, to Calgon Corp. Sorting apparatus. 3,139,184, 6–30–64, Cl. 209—121.

Rice, Owen R.: *See*—
Powell, Russell A., and Rice. 3,117,682.

Rice, Philip J., Jr.: *See*—
Frohbach, Hugh E., Jones, Macovski, Rice, and Wright. 3,134,849.

Rice, Raymond J. Quartz tube floodlights. 3,152,764, 10–13–64, Cl. 240—3.

Rice, Rex: *See*—
Low, Paul R., and Rice. 3,157,792.

Rice, Rex, to International Business Machines Corp. Code conversion and display system. 3,122,734, 2–25–64, Cl. 340—347.

Rice, Rex, to International Business Machines Corp. Photologic arithmetic circuits. 3,138,704, 6–23–64, Cl. 235—176.

Rice, Rex, and J. J. Shea, to International Business Machines Corp. Circuit board assembly. 3,129,990, 4–21–64, Cl. 339—17.

Rice, Richard C.: *See*—
Rice, James K. and R. C. 3,149,573.

Rice, Rip G., B. H. Geib, and L. A. Kaplan, to General Dynamics Corp. (Convair Division). Polymeric product and method of producing same. 3,121,704, 2–18–64, Cl. 260—54.

Rice, Robert B. Transistor type capacity operated relay. 3,129,414, 4–14–64, Cl. 340—258.

Rice, Robert B., to The Wheland Co. Fault detection system having a portable radio signal generator and stationary radio receiver for detecting open circuits in an electrical conductor. 3,155,897, 11–3–64, Cl. 324—52.

Rice, Robert H.: *See*—
Jenney, Theodore M., Porter, and Rice. 3,152,052.
Rice, Robert L.: *See*—
De Souza, John E., and Rice. 3,144,871.
Rice, Roger A.: *See*—
Junck, John A., Rice, and Winters. 3,150,568.
Rice, Stanley I.: *See*—
Jacobson, Alden H., and Rice. 3,139,570.
Rice, Stanley L. Teaching aids. 3,153,861, 10–27–64, Cl. 35—9.
Rice, Stuart A., Jr. Kite. 3,120,367, 2–4–64, Cl. 244—153.
Rich, Alan H. Aircraft stabilization device. 3,140,844, 7–14–64, Cl. 244—82.
Rich, Alva E. Fish hook attaching device. 3,138,840, 6–30–64, Cl. 24—131.
Rich, Charles E., to Sperry Rand Corp. High-mu negative control grid velocity modulation tube. 3,160,782, 12–8–64, Cl. 315—5.37.
Rich, Charles M.: *See*—
McKee, Chester W. McKee and Rich. 3,125,738.
Rich, David C.: *See*—
English, Thomas D., Jr., and Rich. 3,150,950.
Rich, Elm. Foot powder applicator. 3,130,726, 4–28–64, Cl. 128—265.
Rich, Ermecke o.H.G.: *See*—
Ermecke, Albin. 3,120,330.
Rich, Ernest J., Jr.: *See*—
Miller, Richard, Latourette, and Rich. 3,136,748.
Rich, Gerald C., to Sylvania Electric Products Inc. Cold cathode gas tube counting circuits. 3,142,780, 7–28–64, Cl. 315—84.5.
Rich, Howard B., to Howard B. Rich, Inc. Ladder construction. 3,136,387, 6–9–64, Cl. 182—216.
Rich, Howard B., to Howard B. Rich, Inc. Ladder construction. 3,142,356, 7–28–64, Cl. 182—194.
Rich, Howard B., Inc.: *See*—
Rich, Howard B. 3,136,387.
Rich, Howard B. 3,142,356.
Rich, John P., to Improved Machinery, Inc. Downflow countercurrent washing apparatus. 3,134,384, 5–26–64, Cl. 134—57.
Rich, John P., to Improved Machinery, Inc. Continuous pulping apparatus. 3,150,038, 9–22–64, Cl. 162—237.
Rich, John P., to Improved Machinery, Inc. Filter. 3,150,-082, 9–22–64, Cl. 210—395.
Rich, Joseph F., to Solid State Products, Inc. Manufacture of semiconductor devices 3,125,803, 3–24–64, Cl. 29—482.
Rich Mfg. Co. of California: *See*—
Ewing, Paul E. 3,121,266.
Ewing, Paul E. 3,143,774.
Rich, Philip J., to J. L. Clark Mfg. Co. Stand-up tape spool. 3,135,380, 6–2–64, Cl. 206—52.
Rich, Stanley R., to A. H. Rosen. Full range electroacoustic transducers. 3,141,071, 7–14–64, Cl. 179—115.5.
Rich, Stanley R., to Acoustica Associates, Inc. A.C. operated transistor oscillator or amplifier circuits. 3,141,140, 7–14–64, Cl. 331—71.
Rich, Theodore A., to General Electric Co. Method and apparatus for manufacturing an aerosol. 3,124,442, 3–10–64, Cl. 62—10.
Rich, Theodore A., to General Electric Co. Particle size measurement. 3,138.029, 6–23–64, Cl. 73—432.
Rich, Theodore A., to General Electric Co. Low cost ionizer. 3,138,740, 6–23–64, Cl. 317—4.
Rich, Theodore A., to General Electric Co. Electrostatic precipitator. 3,149,936, 9–22–64, Cl. 55—114.
Richard, André J.: *See*—
Fruchard, Alain, and Richard. 3,148,060.
Richard, André M., and J. Brodin, to Societe d'Electronique et d'Automatisme. Saturable magnetic core circuits. 3,144,639, 8–11–64, Cl. 340—174.
Richard Cedar Works Mfg. Corp.: *See*—
Jay, Frederic C. 3,161,404.
Richard, Charles A., Jr., to International Telephone and Telegraph Corp. Traveling wave mixer tube with helix producing its own oscillation frequency. 3,121,818, 2–18–64, Cl. 315—3.6.
Richard, Joseph D. Ultrasonic particle size measurement apparatus. 3,133,445, 5–19–64, Cl. 73—432.
Richard, Joseph D. Secure locking system. 3,134,254, 5–26–64, Cl. 70—277.
Richard, Joseph D., to Welex Electronics, a Division of Halliburton Co. Underwater thermometric apparatus. 3,135,943, 6–2–64, Cl. 340—5.
Richard, Joseph D. Vehicle starting system. 3,136,307, 6–9–64, Cl. 123—179.
Richard, Joseph D., 55% to S. P. Clark, 20% to D. S. Clark, and 25% to S. J. Niskin. Seat temperature regulator. 3,136,577, 6–9–64, Cl. 297—180.
Richard, Joseph D. Underwater signaling apparatus. 3,148,-618, 9–15–64, Cl. 102—7.
Richard, Lionel J. Slidable and swingable window sash construction. 3,149,380, 9–22–64, Cl. 20—49.
Richard, William R., Jr.: *See*—
Andersen, Harry M., and Richard. 3,150,122.
Andersen, Harry M., and Richard. 3,163,611.
Gluesenkamp, Earl W., Richard, and Wilshire. 3,149,080.
Richards, Arthur F., to Richards Shear Co. Blade mounting bolts. 3,146,656, 9–1–64, Cl. 83—699.
Richards, Arthur J., and H. C. Veryser, to Educational Models Inc. Apparatus and method for producing rodent traps. 3,118,216, 1–21–64, Cl. 29—33.
Richards, Cecil H.: *See*—
Baker, Charles N., and Richards. 3,124,081.
Richards, Charles M., Jr., to General Dynamics Corp. Flared tube fitting. 3,139,294, 6–30–64, Cl. 265—332.3.
Richards Corp., The: *See*—
Grimes, David D. 3,158,886.
Richards, Donald D.: *See*—
Dora, Ralph A., and Richards. 3,158,019.
Richards, Emery B. Leveling roll. 3,135,319, 6–2–64, Cl. 165—89.
Richards, Fred F., to Ling-Temco-Vought, Inc. Electrical connector. 3,149,264, 9–15–64, Cl. 317—99.
Richards, George, & Co. Ltd.: *See*—
Davies, Beaumont J., and Wallis. 3,122,686.
Richards, George B., to Liquid Controls Corp. Fluid separator. 3,131,709, 5–5–64, Cl. 137—202.
Richards, George B., W. P. Kushmuk, and A. R. Jakolat, to Liquid Controls Corp. Variable resistance spring device for valves. 3,154,091, 10–27–64, Cl. 137—192.
Richards, Gerald V.: *See*—
Van Dyke, Bruce E., Richards, and Kadleck, 3,121,542.
Richards, Harold E. G.: *See*—
Lowery, Peter A., Richards, and Pook. 3,152,329.
Richards, Henry I., to R-B Corp. Multi-part electrical junction box and plug-in accessory. 3,157,732, 11–17–64, Cl. 174—53.
Richards, Howard R.: *See*—
Alexeff, Alexander V., and Richards. 3,124,429.
Alexeff, Alexander V., Richards, and Zobenica. 3,152,794.
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Richards Industries, Inc.: *See*—
Hott, Melville W., Jr. 3,159,177.
Richards, James C.: *See*—
Terrill, James R., and Richards. 3,121,785.
Richards, Jesse W., to Ford Motor Co. Vehicle underbody construction. 3,162,478, 12–22–64, Cl. 296—28.
Richards, John A. Means for backwashing a filter bed. 3,138,552, 6–23–64, Cl. 210—98.
Richards, John A. Automatic water refill system for swimming pool. 3,139,628, 7–7–64, Cl. 4—172.
Richards, John A., to Cascade Mfg. Co. Self-priming axial-flow pump. 3,163,120, 12–29–64, Cl. 103—113.
Richards, John F.: *See*—
Everett, Wilhelm S., and Richards. 3,137,316.
Richards, John R.: *See*—
Verrinder, Ernest A., and Richards. 3,148,774.
Richards, John R., E. G. M. Dykeman, and E. K. Rice, to FMC Corp. Concrete beam molding apparatus. 3,132,403, 5–12–64, Cl. 25—118.
Richards, John W.: *See*—
Wilson, Alan, Raper, Sayer, Best, Richards, Shaw and Lockwood. 3,152,150.
Richards, Joseph D.: *See*—
Rummery, Frank O., Richards, and Roseman. 3,120,999.
Richards, Joseph D., F. O. Rummery, and R. Roseman, to The Glidden Co. Cyclic process for producing titanium dioxide pigment. 3,118,732, 1–21–64, Cl. 23—202.
Richards, Lawrence M.: *See*—
Sargent, Herbert, and Richards. 3,151,154.
Richards, Leslie D.: *See*—
Cullen, Roy H., and Richards. 3,136,113.
Richards, Louis R., and H. H. Holly, to Hollymatic Corp. Separator feeder. 3,126,683, 3–31–64, Cl. 53—122.
Richards, Peter N., and D. I. Cameron, to John Lysaght (Australia) Ltd. Production of grain oriented electrical steels wherein a preconditioning step is employed prior to decarburizing. 3,162,553, 12–22–64, Cl. 148—112.
Richards, Raymond S., to Owens-Illinois Glass Co. Method of effecting exothermic reactions. 3,130,045, 4–21–64, Cl. 75—170.
Richards, Raymond S., to Owens-Illinois Glass Co. Metal coated refractories and method of utilizing and manufacturing same. 3,136,658, 6–9–64, Cl. 117—227.
Richards, Richard K. Decimal counter circuits. 3,154,764, 10–27–64, Cl. 340—174.
Richards, Richard K. Flip-flop interconnection circuits. 3,156,829, 11–10–64, Cl. 307—88.5.
Richards, Robert J.: *See*—
Jacobs, Robert B., Mullen, Van Gundy, Richards, and Steward. 3,137,143.
Richards, Robert L., Jr.: *See*—
Prengle, Robert S., and Richards. 3,139,470.
Richards Shear Co.: *See*—
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Richards Structural Steel Co. Ltd.: *See*—
Doughty, Kenneth H. G. 3,136,490.
Richards, William H. Mop and adjustable handle assembly for mops and the like. 3,137,878, 6–23–64, Cl. 15—118.
Richards, William H. Cleaning mops and applicators. 3,147,-502, 9–8–64, Cl. 15—118.
Richards, William J., to Genesco, Inc. Flexible sole shoe. 3,152,407, 10–13–64, Cl. 36—19.
Richardson, Alan H., and J. H. Carroll, to Union Carbide Corp. Automatic weighing and flow control apparatus for solid materials. 3,126,068, 3–24–64, Cl. 177—108.
Richardson, Arthur W., to Karma (New Malden) Ltd. Liquid fuel burners. 3,119,438, 1–28–64, Cl. 158—88.
Richardson, Charles H., to Sperry Rand Corp. Mass balance adjusting device. 3,135,120, 6–2–64, Cl. 74—5.4.
Richardson Co., The: *See*—
Chu, Chien F., and Medl. 3,137,612.
Hedman, Edward A., and Mather. 3,138,478.

Richardson Corp.: *See*—
Burke, Arthur J. 3,142,419.
Richardson, Davis A., and W. G. Wilkins, to The Boeing Co. Moisture and particle removing means for engines. 3,148,043, 9–8–64, Cl. 55—306.
Richardson, Donald, to W. R. Grace & Co. Clip. 3,138,838, 6–30–64, Cl. 24—30.5.
Richardson, Donald E., to IIT Research Institute. Method and apparatus for electrostatic recording and reproducing. 3,159,718, 12–1–64, Cl. 179—100.1.
Richardson, Earl L., and G. C. Hoss, to American Home Products Corp. Waveset composition comprising an aqueous lotion of polyvinyl alcohol and a carboxy vinyl polymer. 3,133,865, 5–19–64, Cl. 167—87.1.
Richardson, Eugene E., to Standard Oil Co. Petroleum wax ethylene alkene coating composition. 3,157,610, 11–17–64, Cl. 260—28.5.
Richardson, George A.: *See*—
Birum, Gail H., and Richardson. 3,160,650.
Richardson, Gerald L.: *See*—
Jansen, George, Jr., Richardson, Platt, and Bray. 3,154,500.
Richardson, Henry G., Jr.: *See*—
Reinker, Gerald E., and Richardson. 3,131,920.
Richardson, Henry M.: *See*—
Velonis, Stamatis G., Schnitzer, and Richardson. 3,148,235.
Richardson, Henry M., W. S. Larson, and J. M. De Bell, to The Patent and Licensing Corp. Nonweeping, noncorrosive pipe. 3,121,446, 2–18–64, Cl. 138—144.
Richardson, Howe, Scale Co.: *See*—
Burke, Arthur J. 3,148,251.
Richardson, Irwin W. Fruit picker. 3,127,725, 4–7–64, Cl. 56—328.
Richardson, Jacob C.: *See*—
Daigle, Edwin E., and Richardson. 3,163,241.
Richardson, James A. Animated display. 3,142,919, 8–4–64, Cl. 40—106.41.
Richardson, John E.: *See*—
Burkig, Jack W., and Richardson. 3,142,112.
Richardson, Joseph G., to Jersey Production Research Co. Method of improving injectivity of water-solvent mixtures. 3,138,204, 6–23–64, Cl. 166—42.
Richardson, Lee S., A. I. Lewis, deceased (B. J. Ambrose, administrator), and L. L. France, to Westinghouse Electric Corp. Tungsten-rhenium-tantalum alloys. 3,160,501, 12–8–64, Cl. 75—176.
Richardson, Leon O.: *See*—
Tully, John C., Franklin, and Richardson. 3,136,099.
Richardson Mfg., Inc.: *See*—
Van Sickle, James D. 3,132,700.
Richardson-Merrell Inc.: *See*—
Berry, James M. 3,152,734.
Cairelli, Carmen P. 3,139,218.
Carkhuff, Edwin D., and Myers. 3,146,935.
Dale, Lamar B., Jr., Christenson, and Pogge. 3,129,139.
McCuiston, Robert E. 3,140,052.
Nace, Harold R. 3,129,242.
Palopoli, Frank P., Benson, Allen, and Schumann. 3,150,144.
Richardson, Newton W., to Natural Gas Equipment Inc. Fence construction. 3,122,355, 2–25–64, Cl. 256—72.
Richardson, Peter E., and J. R. Dunworth, to Muirhead & Co., Ltd. Automatic indexing arrangements for rotary stud switches. 3,132,266, 5–5–64, Cl. 307—141.4.
Richardson, Philip: *See*—
Horsley, William D., Richardson, Elliott, and Henderson. 3,119,033.
Richardson, Philip, to C. A. Parsons, & Co. Synchronous condenser start-up circuit. 3,135,870, 6–2–64, Cl. 307—57.
Richardson, Philip, H. H. Ritz, and M. O. Engel, to C. A. Parsons & Co. Ltd. Cooling of rotor conductors of dynamoelectric machines. 3,154,706, 10–27–64, Cl. 310—54.
Richardson, Pierce F.: *See*—
Virtue, Eugene P., Moyer, and Richardson. 3,140,103.
Richardson, Robert O.: *See*—
Mintz, Albert E. 3,134,252.
Richardson, Rolland A.: *See*—
Castle, James B., Jr., Pearson and Richardson. 3,153,384.
Pearson, Eugene W., and Richardson. 3,143,924.
Pearson, Eugene W., and Richardson. 3,154,989.
Pearson, Eugene W., and Richardson. 3,163,072.
Richardson, Ronald E., to Pittsburgh Plate Glass Co. Glass bending. 3,116,993, 1–7–64, Cl. 65—107.
Richardson, Ronald E., to Pittsburgh Plate Glass Co. Glass tempering method and apparatus. 3,125,430, 3–17–64, Cl. 65—114.
Richardson, Ronald E. Glass bending mould with sag indicating mechanism. 3,153,582, 10–20–64, Cl. 65—158.
Richardson, Ronald E., to Pittsburgh Plate Glass Co. Glass bending moulds. 3,162,524, 12–22–64, Cl. 65—290.
Richardson, Stephen A.: *See*—
Rathbun, Howard M., and Richardson. 3,130,299.
Richardson, Stephen P., to Johnson & Johnson. Dusting powder composition containing salts of poly basic phosphoric acids. 3,133,866, 5–19–64, Cl. 167—92.
Richardson, Theodore M. Distributing device for cottonseed cake and the like. 3,126,133, 3–24–64, Cl. 222—505.
Richardson, Wallace L.: *See*—
Kautsky, George J., Barusch, and Richardson. 3,148,959.
Richardson, Westgarth & Co. Ltd.: *See*—
Chalmers, Thomas M., Frankel, and Craig. 3,146,177.
Richardson, William C., and R. J. Bohnhoff, to Courtaulds, Ltd. Process for making cellulose sponge. 3,131,076, 4–28–64, Cl. 106—122.
Richardson, William F., and R. L. McQuitty, to Flex-O-Lators, Inc. Edge spring for upholstered furniture. 3,151,853, 10–6–64, Cl. 267—1.
Richardson, William J.: *See*—
Allen, Leslie J., Lorenz, and Richardson. 3,162,788.
Richardsson, John E.: *See*—
Burkig, Jack W., and Richardsson. 3,128,332.
Richartz, Paul J., to Bell & Howell Co. Centrifugal governor switch. 3,152,230, 10–6–64, Cl. 200—80.
Richaud, Pierre J. G., to Ciments Lafarge. Means for continuously treating divided materials. 3,129,932, 4–21–64, Cl. 263—27.
Richaud, Pierre J. G., to Ciments Lafarge. Method of simultaneous production of low-silicon iron and high-alumina slag. 3,130,041, 4–21–64, Cl. 75—41.
Riche, Raymond P.: *See*—
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Rinesch, Rudolf, and R. Lukesch, to BOT Brassert Oxygen Technik AG. Method for the production of steel. 3,163,-522, 12–29–64, Cl. 75—52.
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Ringold, Howard J., and G. Rosenkranz, to Syntex Corp. 2α-lower alkyl dihydro tetstosterone and derivatives thereof. 3,118,915, 1–21–64, Cl. 260—397.4.

Ringold, Howard J., and G. Rosenkranz, to Syntex Corp. Process for hydroxylation of 16α,17α-ketals and acetals of cortical hormones and products derived therefrom. 3,124,-571, 3–10–64, Cl. 260—239.55.

Ringold, Howard J., G. Rosenkranz, and J. Edwards, to Syntex Corp. 4-Chloro-9 α-fluoro-pregnenes and derivatives thereof. 3,125,591, 3–17–64, Cl. 260—397.45.

Ringold, Howard J., and J. A. Zderic, to Syntex Corp. 7β-methyl progesterone derivatives. 3,126,374, 3–24–64, Cl. 260—239.55.

Ringold, Howard J., J. A. Zderic, C. Djerassi, and A. Bowers, to Syntex S.A. Cyclic ketals of 6 halo corticoids. 3,126,375, 3–24–64, Cl. 260—239.55.

Ringold, Howard J., and F. A. Kincl, to Syntex Corp. 2-substituted testols- and andrololactones. 3,132,153, 5–5–64, Cl. 260—343.2.

Ringold, Howard J., C. Djerassi, A. Bowers, and M. Velasco, to Syntex Corp. Process for the production of 6-halo-3-keto-$\Delta^{4,6}$ steroids. 3,138,589, 6–23–64, Cl. 260—239.55.

Ringold, Howard J., and A. Bowers, to Syntex Corp. 16α-alkoxy-6-dehydro cortical hormones. 3,141,029, 7–14–64, Cl. 260—397.45.

Ringold, Howard J., and G. Rosenkranz, to Syntex S.A. 4,4-dialkyl-17β-hydroxyandrostane 3-one and derivatives thereof. 3,144,469, 8–11–64, Cl. 260—397.4.

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Ringquist, Clarence L., to The Trane Co. Air conditioning system with one pipe heating and cooling. 3,127,929, 4–7–64, Cl. 165—22.

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Rinia, Herre, and J. F. Klinkhamer, to North American Philips Co. Inc. Cryotron arrangement and cryotrons suitable for use in such arrangements. 3,141,979, 7–21–64, Cl. 307—88.5.

Rink, Helmut, to Leybold-Anlagen Holding A.G. Loading device. 3,141,560, 7–21–64, Cl. 214—89.

Rink, John D., 20% to E. A. Sokolski. Lawn trimmer. 3,127,939, 4–7–64, Cl. 172—13.

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Thoma, Wilhelm, and Rinke. 3,140,270.

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Ritchie, Alexander C., D. E. Clark, T. Walker, and K. D. E. Whiting, to Glaxo Group Ltd. Process for preparing N-alkyl and N-hydroxyalkyl derivatives of 1-emetine. 3,121,-722, 2–18–64, Cl. 260—288.
Ritchie, Alexander C., and D. E. Clark, to Glaxo Laboratories Ltd. Novel 2-dehydroemetine intermediates and process for preparation thereof. 3,159,638, 12–1–64, Cl. 260—287.
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Ritter, George F., Jr., to Libbey-Owens-Ford Glass Co. Glass door construction. 3,121,261, 2–18–64, Cl. 20—35.
Ritter, George F., Jr., to Libbey-Owens-Ford Glass Co. Bent glass sheet handling. 3,129,088, 4–14–64, Cl. 65—260.
Ritter, George F., Jr., D. E. Carney, R. A. Nyquist, and A. H. Miller, to Libbey-Owens-Ford Glass Co. Method and apparatus for removing edges during forming of sheet glass. 3,124,444, 3–10–64, Cl. 65—25.
Ritter, Hartien S., to Pittsburgh Plate Glass Co. Pigment treatment. 3,146,119, 8–25–64, Cl. 106—300.
Ritter, Josef: *See*—
Eisenburger, Kuno, Hummelberg, and Ritter. 3,125,668.
Ritter, Kaspar, to Allgaier-Werke G.m.b.H. Vehicle transmissions. 3,119,478, 1–28–64, Cl. 192—4.
Ritter, Kaspar, to Kopat Gesellschaft für Konstruktion Entwicklung und Patentverwertung m.b.H. & Co. KG. Hydrostatic drive, particularly for automotive vehicles. 3,131,-540, 5–4–64, Cl. 60—53.
Ritter, Lawrence: *See*—
Kanegis, Leon A., and Ritter. 3,128,227.
Remmers, Edward G., Barringer, and Ritter. 3,122,578.
Ritter, Marcel G., Christensen Diamond Products Co. Diamond drill bits. 3,135,341, 6–2–64, Cl. 175—329.
Ritter, Paul K., and R. M. Pilditch. Illuminated compacts. 3,163,364, 12–29–64, Cl. 240—6.45.
Ritter, Perry B.: *See*—
Dunne, Brian B., Ritter, and Kelsey. 3,141,236.
Ritter, Ralph K., and L. P. English, to KSM Products Inc. Stud welding devices. 3,162,746, 12–22–64, Cl. 219—98.
Ritter, Ritterwerk F., & Sohn: *See*—
Graef, Ferdinand. 3,133,572.
Ritter, Robert B.: *See*—
Sjogren, Charles N., and Ritter. 3,148,069.
Ritter, Rolland R., to Sperry Rand Corp. Periodic signal synchronizer. 3,127,593, 3–31–64, Cl. 340—174.1.
Rittmann, Karl. Lock for fastening pins. 3,144,693, 8–18–64, Cl. 24—158.
Ritums, Mikelis, to Sunbeam Corp. Adjustable wheel support for a lawn mower. 3,147,987, 9–8–64, Cl. 280—43.17.
Ritz, Hans. High-voltage instrument transformers. 3,123,-784, 3–3–64, Cl. 336—58.
Ritz, Hugo H. L.: *See*—
Richardson, Philip, Ritz, and Engel. 3,154,706.
Ritzcovan, Stephen. Concealable cosmetic device. 3,119,389, 1–28–64, Cl. 128—76.
Ritzema, Donald E.: *See*—
De Long, Herbert K., and Ritzema. 3,134,702.
Ritzema, John B.: *See*—
Riske, Gilbert, and Ritzema. 3,149,698.
Riske, Gilbert, and Ritzema. 3,160,230.
Ritzenhoff, Hermann. Sealing cap. 3,145,869, 8–25–64, Cl. 215—46.
Ritzenthaler, Bruce A.: *See*—
Paglis, James P., and Ritzenthaler. 3,120,749.
Ritzerfeld, Gerhard: *See*—
Ritzerfeld, Wilhelm and G. 3,139,808.
Ritzerfeld, Wilhelm, and G. 3,146,705.
Ritzerfeld, Wilhelm and G. 3,155,035.
Ritzerfeld, Wilhelm and G. 3,155,036.
Ritzerfeld, Wilhelm and G. 3,156,182.
Ritzerfeld, Wilhelm and G. Method and apparatus for making printing form sheets. 3,139,808, 7–7–64, Cl. 95—73.
Ritzerfeld, Wilhelm and G. Rotary offset printing machine for a movable printing form. 3,146,705, 9–1–64, Cl. 101—144.
Ritzerfeld, Wilhelm and G. Rotary offset printing machine for selective printing. 3,155,035, 11–3–64, Cl. 101—142.
Ritzerfeld, Wilhelm and G. Rotary offset printing machine for printing selected sections of a printing form. 3,155,-036, 11–3–64, Cl. 101—144.
Ritzerfeld, Wilhelm and G. Rotary offset printing machines with shiftable blankets. 3,156,182, 11–10–64, Cl. 101—142.
Ritzler, George A. Gaming device comprising aligned word-forming discs rotatable in opposite directions. 3,129,004, 4–14–64, Cl. 273—143.
Riuli, Arduino: *See*—
Hartsock, Walter F., Iannuzzi, and Riuli. 3,121,187.
Riva, William, to The Luchland Co. Wheeled simulated telephone with pull cord simulating a telephone cord. 3,140,562, 7–14–64, Cl. 46—202.
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McLean, Robert E. 3,129,509.
Rivard, Donald E.: *See*—
Anderson, Eivin L., and Rivard. 3,117,967.
Rivas, Edmond T. Frangible closure for pressurized receptacle. 3,160,309, 12–8–64, Cl. 220—27.
Rively, Clair M., and W. A. Brenneck, to Westinghouse Electric Corp. Automatic manufacturing machine. 3,129,043. 4–14–64, Cl. 316—31.
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Berger, Sol J., and Rivenburgh. 3,147,560.
Rivera, Juan A. Combination coffee pulper, washing and selecting machine. 3,139,919, 7–7–64, Cl. 146—280.
Rivera, Michael: *See*—
Abrams, Irwin L., Harra, and Rivera. 3,150,819.
Rivers, Charles F. Conveyors. 3,139,973, 7–7–64, Cl. 198—218.
Rivers, Frances B. Child's baby crawler type vehicle. 3,129,952, 4–21–64, Cl. 280—87.02.
Rivers, Hubert M., to Calgon Corp. Boiler system. 3,139,071, 6–30–64, Cl. 122—382.
Rivers, Richard D., to American Air Filter Co., Inc. Pocket-type filters. 3,124,441, 3–10–64, Cl. 55—500.
Rivers, Russell C.: *See*—
Copian, Louis P., Rivers, and Miller. 3,145,670.
Riverside Plastics Corp.: *See*—
Greenberg, Walter H. 3,123,176.
McCoy, John H., and Greenberg. 3,136,380.
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Murgue, Joseph, and Rivoire. 3,138,972.
Rivoire, J., Etablissements: *See*—
Murgue, Joseph, and Rivoire. 3,138,972.
Rix, Albert, to Olympia Werke A.G. Tabulator stop control arrangement. 3,150,755, 9–29–64, Cl. 197—179.
Rix, Johannes, to Aeon Products (London) Ltd. Spring suspension arrangement in which swinging movement of an element is translated in an axial thrust on a spring element. 3,161,420, 12–15–64, Cl. 280—124.
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Ellis, David H. 3,135,991.
Rixson, Oscar C., Co., The: *See*—
Cecala, Michael L. 3,117,827.
Riza, John H.: *See*—
Kreiter, George W., and Riza. 3,119,007.
Rizzo, Philip C.: *See*—
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Rizzo, Vincent J.: *See*—
Hanus, Edward J., Rizzo, and Skeggs. 3,130,189.
Rizzuti, Carl J., and H. M. Brewster, to Esso Research and Engineering Co. Lubrication of refrigeration equipment. 3,129,185, 4–14–64, Cl. 252—68.
Roach, Erskine E., to Harold Brown Co. Gas lift system for wells. 3,139,040, 6–30–64, Cl. 103—247.
Roach, Erskine E., to Jersey Production Research Co. Liquid volume compensator. 3,141,332, 7–21–64, Cl. 73—223.
Roach, Isaac W. Necktie. 3,127,618, 4–7–64, Cl. 2—150.
Roach, Richard A. Crusher for wild onions and the like. 3,136,372, 6–9–64, Cl. 172—41.
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Roak, Vernon J., and W. R. Scholle, to Scholle Container Corp. Paperboard dispensing container. 3,138,293, 6–23–64, Cl. 222—105.
Roald, Arnvid S., to The Procter & Gamble Co. Process for producing a quick dissolving agglomerated perborate. 3,154,496, 10–27–64, Cl. 252—99.
Roaldi, Arthur: *See*—
Logan, James S., and Roaldi. 3,136,607.
Roalef, Robert R. Current limiting device. 3,122,654, 2–25–64, Cl. 307—88.5.
Roane, Asa E., to Kysor Industrial Corp. Thermoelectric heating and cooling system for vehicles. 3,138,934, 6–30–64, Cl. 62—3.
Roane, Asa E., to Kysor Industrial Corp. Automotive heating and cooling system. 3,141,498, 7–21–64, Cl. 165—43.
Roanwell Corp.: *See*—
Cagen, George. 3,128,352.
Roark, Jack T.: *See*—
Kraft, Donald L., and Roark. 3,145,121.
Roark, Leon S., to Claiborne Sales Co. of Texas. Tile loading machines. 3,160,295, 12–8–64, Cl. 214—16.6.
Rob-Ric Co.: *See*—
Laemale, Richard F. 3,160,175.
Rob, Roman. Two-ended clothespin. 3,137,906, 6–23–64, Cl. 24—137.
Roback, Edward L.: *See*—
Dimmer, Robert P., and Roback. 3,128,346.
Roback, Edward L., to Automatic Electric Laboratories, Inc. Waystation telephone system. 3,156,776, 11–10–64, Cl. 179—17.6.
Robapharm A.G.: *See*—
Engel, Kurt. 3,119,822.
Robards, Preston O. Window construction. 3,133,323, 5–19–64, Cl. 20—42.
Robb, Egerton S., J. G. Moffett, Jr., and O. L. Wylie, Jr., to Shell Oil Co. Heat exchanger. 3,146,075, 8–25–64, Cl. 23—288.
Robb, George D., to Federal Engineering Co. Die spotting press. 3,118,407, 1–21–64, Cl. 113—38.
Robb, Harold E., Jr.: *See*—
Taylor, Wesley L., and Robb. 3,150,913.
Robb, Harold E., Jr., to Powers Regulator Co. Comfort control circuit. 3,118,601, 1–21–64, Cl. 236—44.
Robb, Wyman D.: *See*—
Arnold, Lawrence F., and Robb. 3,134,803.
Robba, Albert S., and W. J. Bushok, Jr. Drumsticks. 3,146,659, 9–1–64, Cl. 84—422.
Robbart, Edward. Method of treating wool with organic silicon halides to render same water repellent. 3,129,054, 4–14–64, Cl. 8—128.
Robbins, Alex, to Standard Systems Corp. Acoustical loud speakers. 3,122,214, 2–25–64, Cl. 181—31.
Robbins Aviation, Inc.: *See*—
Patrick, Ernest G. 3,119,408.
Robbins, Cluster G.: *See*—
Rosener, Willard C., Green, Robbins, Frost, and Donovan. 3,145,925.
Robbins, Clyde F.: *See*—
Dennison, William G., Robbins, and Vogel. 3,133,164.
Robbins, Daniel O.: *See*—
Jewell, Randolph J., Robbins, Gross, and Elsom. 3,153,-519.
Robbins, Davis B. Low release torque threaded joint. 3,129,963, 4–21–64, Cl. 285—334.
Robbins, Frederick E.: *See*—
Petree, Edwyn H., Robbins, and Self. 3,141,492.
Robbins, Frederick M., to General Foods Corp. Edible materials containing water soluble dextrin forming complexes. 3,140,184, 7–7–64, Cl. 99—28.
Robbins, Gordon B., to E. I. du Pont de Nemours and Co. Production of diaryl sulfones. 3,125,604, 3–17–64, Cl. 260—607.
Robbins, Harris H. Tool holder. 3,152,386, 10–13–64, Cl. 29—96.
Robbins, Howard G. Machine for feeding logs to band saw for splitting logs. 3,131,734, 5–5–64, Cl. 143—26.
Robbins, Jack E.: *See*—
Laguzzi, Mario, Martelli, and Robbins. 3,128,770.
Robbins, James D., and D. K. Johnston. Mist generator. 3,124,283, 3–10–64, Cl. 223—51.
Robbins, James S., deceased, by W. W. Miller, executor, to Goodman Mfg. Co. Rotary boring head having roller cutter disks. 3,139,148, 6–30–64, Cl. 175—336.
Robbins, Joseph, and F. R. Smith, to United Shoe Machinery Corp. Conveyor apparatus. 3,158,105, 11–24–64, Cl. 104—172.
Robbins, Lawrence. Welding electrode. 3,162,751, 12–22–64, Cl. 219—137.
Robbins, Leo, and J. Bendror, to Oversewing Machine Co. of America. Building-in machine press for books. 3,117,330, 1–14–64, Cl. 11—1.
Robbins, Leroy V., Jr.: *See*—
Berkeley, Peter J., Jr., Robbins, and Watts. 3,127,451.
Robbins, Leroy V., Jr., and J. K. Mertzweiller, to Esso Research and Engineering Co. Graduated hydrogenation of aldox aldehydes to alcohols. 3,118,954, 1–21–64, Cl. 260—638.
Robbins, Murrell F. Chromatography column enclosure. 3,122,014, 2–25–64, Cl. 73—23.
Robbins & Myers, Inc.: *See*—
Springer, William E. 3,131,044.
Springer, William E. 3,158,908.
Robbins, Samuel B., to General Motors Corp. Transistor ignition system. 3,152,281, 10–6–64, Cl. 315—201.
Robbins, Samuel B., to General Motors Corp. Rear view mirror. 3,157,729, 11–17–64, Cl. 88—98.
Robbins, William B., and L. Greenwood, to Young & Rubicam, Inc. Merchandise package. 3,148,820, 9–15–64, Cl. 229—37.
Robbins, William K.: *See*—
Behymer, Oral C., Robbins, and Kehoe. 3,121,678.
Robbins, William K. Branch connector link for non-kinking chains. 3,121,308, 2–18–64, Cl. 59—85.
Robbins, William K. Conecting means for chain links and the like. 3,139,720, 7–7–64, Cl. 59—84.
Robbins, Zifford E.: *See*—
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Roberge, Joseph O. Material handling implement. 3,146,015, 8–25–64, Cl. 294—19.
Roberson, Albert O. Car tray. 3,125,040, 3–17–64, Cl. 108—18.
Roberson, Cletis L., to Owens-Corning Fiberglas Corp. Apparatus for producing uniform continuous fibers. 3,126,268, 3–24–64, Cl. 65—11.
Roberson, Cletis L., S. A. Canfield, and J. D. Riley, to Owens-Corning Fiberglas Corp. Viscometer. 3,162,038, 12–22–64, Cl. 73—59.
Roberson, William D.: *See*—
Klug, Eugene D., and Roberson. 3,131,177.
Robert, Jacques: *See*—
Hainzelin, Jean, Le Flem, and Robert. 3,127,320.
Jacob, Robert M., and Robert. 3,130,194.
Jacob, Robert M., and Robert. 3,150,129.
Robert, Jean: *See*—
Camerino, Bruno, Sciaky, and Robert. 3,134,769.
Camerino, Bruno, Sciaky, and Robert. 3,134,793.
Roberto, Arthur C. Internally expanding brakes. 3,135,-361, 6–2–64, Cl. 188—78.
Roberts, A. Boake, & Co. Ltd.: *See*—
Fysh, Derick. 3,150,111.
Roberts, Albert, S. M. Slawsky, and G. Stavis, to General Precision, Inc. Radar and television aid to navigation. 3,121,223, 2–11–64, Cl. 343—6.
Roberts, Albert L., and J. P. O'Donnell, to Ordnance Associates, Inc. Barometrically responsive power control mechanism. 3,142,958. 8–4–64, Cl. 60—26.1.
Roberts, Alvin M.: *See*—
Roberts, Kenneth E. and A. M. 3,120,310.
Roberts, Arthur, to United States of America, Atomic Energy Commission. Means for determining the direction and velocity of nuclear particles. 3,140,394, 7–7–64, Cl. 250—71.5.
Roberts, Bruce, to A. C. Body. Device for removably retaining miscellaneous articles in a pocket. 3,142,876, 8–4–64, Cl. 24—3.
Roberts, Bruce D., to Central States Tooling Service, Inc. Actuator. 3,153,989, 10–27–64, Cl. 92—136.
Roberts, Carleton W.: *See*—
Haigh, Daniel H., Roberts, and Rathsack. 3,152,103.
Lloyd, William G., Roberts, and Thiegs. 3,121,972.
Roberts, Carleton W., and D. H. Haigh, to The Dow Chemical Co. Hexachlorocyclopentadiene-tetrahydrophthalic anhydride adduct and derivatives. 3,152,172, 10–6–64, Cl. 260—468.
Roberts, Carleton W., and D. H. Haigh, to The Dow Chemical Co. Certain 3-(bicyclo[2.2.1]hept-5-en-2-yl)-2-oxazolidinones. 3,162,645, 12–22–64, Cl. 260—307.
Roberts, Cecil P., and D. D. Acton, to Anchor Hocking Glass Corp. Torque control means for sealing machines. 3,134,-211, 5–26–64, Cl. 53—331.5.
Roberts, Charles A. Rear foot controls. 3,148,678, 9–15–64, Cl. 128—80.
Roberts, Charles E. Digital actuator and direct digital transducer employing same. 3,153,229, 10–13–64, Cl. 340—347.
Roberts, Charles L. Mouthpiece for double reed musical instrument. 3,152,506, 10–13–64, Cl. 84—380.
Roberts, Charles S.: *See*—
Ritchey, Harold W., Williams, and Roberts. 3,140,584.
Roberts, Colin S., and J. G. W. Jackson. Jig bushes. 3,119,-287, 1–28–64, Cl. 77—62.
Roberts Co.: *See*—
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Roberts, Cora M. Exercising and cosmetic device and method. 3,130,720, 4–28–64, Cl. 128—76.
Roberts, Deering S. Fruit reamer. 3,122,185, 2–25–64, Cl. 146—3.
Roberts, Donald E., to Silver Service Corp. Tumbling apparatus. 3,134,203, 5–26–64, Cl. 51—164.
Roberts, Donald R., and G. Brecht, to Johnson & Johnson. Tampon applicator. 3,148,680. 9–15–64, Cl. 128—263.
Roberts, Edward H., to General Electric Co. Method of manufacturing insulated refrigerator cabinets. 3,152,199, 10–6–64, Cl. 264—45.
Roberts, Edward McG.: *See*—
Schumann, Edward L., Roberts, and Claxton. 3,123,618.
Roberts, Edwin M., to Socony Mobil Oil Co. Extended correlation time vanadium analysis. 3,140,993, 7–14–64, Cl. 208—251.
Roberts, Edwin T., and H. A. Thornton, Jr. Baby bottle. 3,145,867, 8–25–64, Cl. 215—11.
Roberts, Elliott J.: *See*—
Dobell, Curzon, and Roberts. 3,133,659.
Roberts, Frank B., to National Co., Inc. Extensible electric cable. 3,126,442, 3–24–64, Cl. 174—69.

Roberts, Fred T., & Co.: *See*—
Roberts, Fred T. and R. E. 3,157,543.

Roberts, Fred T. and R. E., to Fred T. Roberts & Co. Method of making reinforced, helically corrugated flexible hose. 3,157,543, 11–17–64, Cl. 156—143.

Roberts, Frederick W., J. R. Montgomery, F. W. Schueler, and F. A. Pierini, to Dictaphone Corp. Dictation apparatus. 3,134,599, 5–26–64, Cl. 274—21.

Roberts, George A., and J. C. Hamaker, Jr., to Vandium-Alloys Steel Co. Alloy steels. 3,117,863, 1–14–64, Cl. 75—126.

Roberts, George I., to The Bendix Corp. Method and apparatus for forming end turns on a wire wound unit. 3,139,921, 7–7–64, Cl. 153—10.

Roberts, Gilbert. Suspension bridges. 3,132,363, 5–12–64, Cl. 14—18.

Roberts, Glynton M. Thread swaging tap. 3,131,407, 5–5–64, Cl. 10—152.

Roberts, Hardy G. Container. 3,133,660, 5–19–64, Cl. 220—19.

Roberts, Harold: *See*—
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Roberts, Henry. Astable to bistable multivibrator control circuit. 3,142,025, 7–21–64, Cl. 331—113.

Roberts, Herbert B., to Western Pottery Co., Inc. Toilet bowl with hydraulic leveling upward rim feed from lowered flush valve. 3,131,402, 5–5–64, Cl. 4—14.

Roberts, Herbert B. Multiple purpose vehicle seat. 3,151,906, 10–6–64, Cl. 296—66.

Roberts, Hugh L.: *See*—
Pass, Geoffrey, and Roberts. 3,142,537.

Roberts, J. W., Ltd.: *See*—
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Roberts, James A.: *See*—
La Vigne, Paul G., and Roberts. 3,132,579.

Roberts, John A. Storage apparatus. 3,127,032. 3–31–64, Cl. 214—17.

Roberts, John A., to General Electric Co. Leak standard. 3,129,729, 4–21–64, Cl. 141—18.

Roberts, John A., to General Electric Co. Gas leak detector. 3,144,600, 8–11–64, l. 324—33.

Roberts, John F. L., E. Walker, and G. Scott, to Imperial Chemical Industries Ltd. Spinning polypropylenes which have been subjected to thermal degradation promoted by the presence of sulfur compounds. 3,143,584, 8–4–64, Cl. 264—210.

Roberts, John W. Paper clip tab. 3,123,924, 3–10–64, Cl. 40—11.

Roberts, Judson E., to Holga Metal Production Co. Locking means for cabinets. 3,152,847, 10–13–64, Cl. 312—221.

Roberts, Kenneth: *See*—
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Roberts, Kenneth E. and A. M. Tilting-boom log-handling crane. 3,120,310, 2–4–64, Cl. 212—42.5.

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Roberts, Maldwyn H., D. W. L. Clamp, and N. A. Jukes, to Joseph Lucas (Industrial) Ltd. Spark ignition apparatus for internal combustion engine. 3,140,423, 7–7–64, Cl. 315—201.

Roberts, Marion L., to Osborne Electronic Corp. Variable ratio transformer. 3,162,799, 12–22–64, Cl. 323—45.

Roberts, Michael J.: *See*—
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Roberts, Philippe G.: *See*—
Landry, Alfred E., and Roberts. 3,121,143.

Roberts, Ralph R. Charcoal braziers. 3,132,639, 5–12–64, Cl. 126—25.

Roberts, Rex A., to Improved Machinery Inc. Sliding pin valves. 3,135,292, 6–2–64, Cl. 137—609.

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Parkinson, William C., Ober and Roberts. 3,126,172.

Roberts, Richard L.: *See*—
Lynn, John W., and Roberts. 3,118,935.
Lynn, John W., Roberts, and Tinsley. 3,122,568.

Roberts, Richard M.: *See*—
Baumgartner, Herman J., and Roberts. 3,156,089.

Roberts, Richard M., G. S. Ronay, and F. M. Fowkes, to Shell Oil Co. Hydrogen peroxide decomposition. 3,142,151, 7–28–64, Cl. 60—35.4.

Roberts, Robert D.: *See*—
Callahan, James J., and Roberts. 3,127,954.

Roberts, Robert E.: *See*—
Roberts, Fred T. and R. E. 3,157,543.

Roberts, Robert L., to General Foods Corp. Oleaginous food product. 3,140,953, 7–14–64, Cl. 99—123.

Roberts, Russell M., to The Minster Machine Co. Scrap cutter with material responsive control means. 3,157,083, 11–17–64, Cl. 83—80.

Roberts, Russell R., and J. P. Castellana, to General Motors Corp. Brake control mechanism. 3,136,177, 6–9–64, Cl. 74—531.

Roberts, Thomas E., Jr., W. J. Fowler, and H. B. Brooks, to FMC Corp. Weight checking and correcting apparatus control, 3,160,320, 12–8–64, Cl. 222—55.

Roberts, Vince M.: *See*—
Crowson, Fred B., and Roberts. 3,136,851.

Roberts, Wayne E.: *See*—
Clark, Murl W., Mason, and Roberts. 3,148,787.

Roberts, Willard A.: *See*—
Bauman, Edward E., and Roberts. 3,128,950.

Roberts, William J., and M. E. Epstein, to Pennsylvania Industrial Chemical Corp. Production of hydrocarbon polymers. 3,117,114, 1–7–64, Cl. 260—94.2.

Roberts, William L.: *See*—
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Kolodgy, Robert W., and Roberts. 3,163,065.

Roberts, William L., to United States Steel Corp. Method and apparatus for controlling the thickness of rolled strip. 3,150,548, 9–29–64, Cl. 80—60.

Roberts, Williams L., to United States Steel Corp. Apparatus for determining the concentration of an oil-water mixture. 3,153,420, 10–20–64, Cl. 137—89.

Robertshaw Controls Co.: *See*—
Beck, Roland D. 3,143,141.
Bordeaux, Jean. 3,159,805.
Branson, Charles D., and Wantz. 3,155,316.
Caparone, Michael J., and Dykzeul. 3,133,556.
Caparone, Michael J., and Dykzeul. 3,159,346.
Connaught, Phillip M. 3,150,674.
Crafts, Cecil A. 3,157,740.
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Demi, Roy C. 3,156,281.
Dykzeul, Theodore J., and Braucksiek. 3,151,759.
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Fekete, Frank. 3,133,892.
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Hollman, Peter I. 3,146,794.
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Kachline, Harold S. 3,148,703.
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Maltby, Frederick L., Marlow and Riester. 3,131,357.
Manecke, Siegfried E. 3,145,290.
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Robertson, Elmer W., to Elrick Industries, Inc. Delayed action regulator for buffer. 3,127,916, 4–7–64, Cl. 144—288.

Robertson, Elmer W., to Elrick Industries, Inc. Device for protecting tire casings from the hinges of collapsible rims. 3,162,901, 12–29–64, Cl. 18—45.

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Robertson, Jerry E., and J. H. Biel, to Colgate-Palmolive Co. 4-hydrazino-1,2,3-benzothiadiazine-1,1-dioxide compositions and therapy. 3,153,614, 10–20–64, Cl. 167—65.
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Robeson, Max O., and W. T. McNair, Jr., to Celanese Corp. of America. Process for preparing 1,1,1-trimethylol-2-methoxy-propane. 3,135,808, 6–2–64, Cl. 260—615.
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Robinsky, Eli I. Driving tool. 3,135,340, 6–2–64, Cl. 173—115.
Robinsky, Eli I. Cutter head for hollow stem auger. 3,136,-376, 6–9–64, Cl. 175—318.
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Robinson, Cecil H., to Schering Corp. Fluoroinated androstenes and process for the preparation thereof. 3,126,398, 3–24–64, Cl. 260—397.4.
Robinson, Charles F., and J. H. Jacobs, to Consolidated Electrodynamics Corp. Recorder apparatus for rapid photographic developing. 3,130,000, 4–21–64, Cl. 346—109.
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Robinson, Chauncey G., and K. J. Best, to Westinghouse Electric Corp. Induction annealing of magnetic alloy sheet. 3,144,364, 8–11–64, Cl. 148—113.
Robinson, Clifford C. Tape dispenser. 3,156,603, 11–10–64, Cl. 156—577.
Robinson, David A., to Airpax Electronics Inc. Analogue divider circuit. 3,162,759, 12–22–64, Cl. 235—196.
Robinson, David E., to Paper Machine Components, Inc. Paper making machine and process. 3,149,028, 9–15–64, Cl. 162—303.
Robinson, David E., and J. Moran, Time, Inc. Flow system for paper formers. 3,135,650, 6–2–64, Cl. 162—216.
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Sohn, Jesse S., and Robinson. 3,143,631.
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Robinson, Hyman L., to Cataphote Corp. Glass bead making furnace. 3,133,805, 5–19–64, Cl. 65—142.
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Robinson, Ivan M., to E. I. du Pont de Nemours and Co. Polymers of propadiene. 3,151,104, 9–29–64, Cl. 260—94.3.
Robinson, Ivan M., and R. C. Schreyer, to E. I. du Pont de Nemours and Co. Process of polymerizing conjugated alkadienes. 3,118,864, 1–21–64, Cl. 260—92.3.
Robinson, James A.: *See*—
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Robinson, James D. Diffuser and connector for pressure operated switch. 3,150,676, 9–29–64, Cl. 137—101.21.
Robinson, John H.: *See*—
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Robinson, John W., to A. E. Staley Mfg. Co. Process for manufacturing starch-base jelly candy. 3,137,579, 6–16–64, Cl. 99—134.
Robinson, Joseph N., to The Consolidated Mining and Smelting Co. of Canada Ltd. Production of niobium. 3,157,-493, 11–17–64, Cl. 75—84.5.
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Robinson, Lee R., to Pittsburgh Plate Glass Co. Treating glass sheets. 3,162,520, 12–22–64, Cl. 65—104.
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Robinson, Lester E., G. K. Bradfield, Jr., and J. A. Johnson, ⅔ to ACF Industries, Inc., and ⅓ to The Rail Trailer Co. Collapsible trailer support and anchor. 3,145,006, 8–18–64, Cl. 248—119.
Robinson, Lester L., and B. E. Erickson, to General Motors Corp. Automatic control for afterburner manifold utilizing two fluids. 3,158,998, 12–1–64, Cl. 60—35.6.
Robinson, Lloyd A. Pipe support. 3,152,784, 10–13–64, Cl. 248—74.
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Robinson, Martin A., to Olin Mathieson Chemical Corp. Dimercaptopyridines and a process for their preparation. 3,146,237, 8–25–64, Cl. 260—294.8.
Robinson, Mayes R. Two-directional agricultural heater. 3,120,949, 2–11–64, Cl. 263—19.
Robinson, Mayes R. Rotary air-circulating machine. 3,121,295, 2–18–64, Cl. 47—2.
Robinson, Melville W., Jr., and R. J. Allison, to Dravo Corp. Method of enriching the oxygen content of air supplied to blast furnaces. 3,143,412, 8–4–64, Cl. 75—41.
Robinson, Merritt A., to Kimball Mfg. Corp. Locking mechanism. 3,125,873, 3–24–64, Cl. 70—63.
Robinson, Nigel D., to Electric & Musical Industries Ltd. High speed carry apparatus for a parallel accumulator. 3,121,161, 2–11–64, Cl. 235—175.
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Robinson, Norman R., and J. M. S. Keen, to Rolls-Royce Ltd. Fluid flow machine. 3,118,593, 1–21–64, Cl. 230—116.
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Robinson, Preston, to Sprague Electric Co. Method for forming a protective skin for transistor. 3,154,439, 10–27–64, Cl. 148—1.5.
Robinson, Ralph C., to General Time Corp. Drowse alarm mechanism. 3,127,733, 4–7–64, Cl. 58—21.12.
Robinson, Ralph C., A. E. Patrick, and D. Morrison, to General Time Corp. Electric alarm device for sensing signal over power distribution system. 3,136,985, 6–9–64, Cl. 340—310.
Robinson, Ralph L. Multiple hull water vehicle. 3,139,058, 6–30–64, Cl. 114—61.
Robinson, Ralph M., and W. C. Braaten, to Abbott Laboratories. Dicyclohexylamine process. 3,154,580, 10–27–64, Cl. 260—563.
Robinson, Richard G.: *See*—
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Robinson, Robert, R. H. Jaeger, and K. J. Clark, to Shell Oil Co. 2,6-dimethyl-8-ethylene-dioxy-2-en-1 al. 3,130,202, 4–21–64, Cl. 260—340.9.
Robinson, Robert E., to National Distillers and Chemical Corp. Dimerization process for producing adiponitrile. 3,133,956, 5–19–64, Cl. 260—465.8.
Robinson, Robert E., and M. W. Mueller, to National Distillers and Chemical Corp. Polysulfide polymers produced by reaction of dialkali metal hydrocarbons with sulfur halides. 3,119,795, 1–28–64, Cl. 260—79.
Robinson, Robert F.: *See*—
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Robinson & Sons Ltd.: *See*—
Couzens, Reginald, and Glasby. 3,150,575.
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Glasby, Francis G. 3,150,574.
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Allen, Lewis N. and L. D., and Robinson. 3,153,310.
Robinson, William T., to E. I. du Pont de Nemours and Co. Process for treating petroleum distillates. 3,147,211, 9–1–64, Cl. 208—332.
Robinson, William W., Jr., and D. C. Camp, to Cumberland Case Co. Hog-type broiler feeder. 3,144,001, 8–11–64, Cl. 119—53.
Robinson, William W., Jr., and D. C. Camp, to Cumberland Case Co. Corner direction changer. 3,157,273, 11–17–64, Cl. 198—204.
Robinson, William W., Jr., and D. C. Camp, to Cumberland Case Co. Automatic conveyor cutoff. 3,161,286, 12–15–64, Cl. 198—232.
Robischung, Phillip J., to Hammond Machinery Builders, Inc. Belt abrader. 3,153,306, 10–20–64, Cl. 51—135.
Robison, Jay L.: *See*—
Middleton, William H., and Hall. 3,124,695.
Robison, Jesse A., to Ford Motor Co. Combustion chamber. 3,150,654, 9–29–64, Cl. 123—191.
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Lucas, Robert A., MacPhillamy, and Robison. 3,120,532.
Robison, Michael M., and R. A. Lucas, to Ciba Corp. Intermediates for 18-O-alkyl-reserpic acid esters and related compounds. 3,119,819, 1-28–64, Cl. 260—240.
Robison, Michael M., and R. A. Lucas, to Ciba Corp. Alkyl 18-desoxy-18-amino deserpidates and related compounds. 3,120,533, 2–4–64, Cl. 260—287.
Robison, Michael M., and R. A. Lucas, to Ciba Corp. Lower alkyl-18-O-aliphatic deserpidates and intermediates therefor. 3,126,386, 3–24–64, Cl. 260—286.
Robison, Michael M., and R. A. Lucas, to Ciba Corp. 18-O-aryl-sulfonyl-deserpidates and analogs thereof. 3,126,387, 3–24–64, Cl. 260—287.
Robison, Michael M., and R. A. Lucas, to Ciba Corp. 18-O-alkyl-deserpidates and related compounds. 3,126,388, 3–24–64, Cl. 260—287.
Robison, Michael M., and R. A. Lucas, to Ciba Corp. Alkoxyalkyl-18-epi-reserpates and related compounds. 3,126,389, 3–24–64, Cl. 260—287.
Robison, Michael M., and R. A. Lucas, to Ciba Corp. 18-epi-deserpidates and derivatives. 3,126,390, 3–24–64, Cl. 260—287.
Robison, Michael M., and R. A. Lucas, to Ciba Corp. Alkoxyalkyl 18-O-alkoxyalkyl-3-iso-deserpidates, and analogs and 18-epimers thereof. 3,126,391, 3–24–64, Cl. 260—287
Robison, Michael M., and R. A. Lucas, to Ciba Corp. Preparation of 18A-hydroxy-yohimbares. 3,133,927, 5–19–64, Cl. 260—287.
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Robison, Michael M., R. A. Lucas, and H. B. MacPhillamy, to Ciba Corp. Alkyl 18-desoxy-18-etherified mercapto deserpidates and related compounds. 3,118,892, 1–21–64, Cl. 260—287.
Robison, Robert S., and E. J. Becker, to Olin Mathieson Chemical Corp. Testololactones. 3,129,229, 4–14–64, Cl. 260—343.2.
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Robitschek, Paul, to Hooker Chemical Corp. Polyurethane compositions. 3,156,659, 11–10–64, Cl. 260—2.5.
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Robitschek, Paul, S. M. Creighton, and R. R. Hindersinn, to Hooker Chemical Corp. Polyurethane sandwich structures. 3,158,529, 11–24–64, Cl. 161—161.
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Rockafellow, Stuart C. 3,129,341.
Rockafellow, Stuart C. 3,143,698.
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Robra, Helmut, to Schloemann Aktiengesellschaft. Hydraulic forging presses. 3,138,976, 6–30–64, Cl. 78—13.
Robra, Helmut. Equipment for forging crank-shafts. 3,146,513, 9–1–64, Cl. 29—6.
Robra, Helmut, and K. H. Deneke, to Schloemann Aktiengesellschaft. Progressive forging of multi-throw crank-shafts. 3,129,488, 4–21–64, Cl. 29—6.
Robrecht, Wilbur G., and R. E. Christian; said Robrecht assor. to Parke, Davis & Co. Explosion venting construction. 3,150,749, 9–29–64, Cl. 189—64.
Robson, Anthony D., to The British Oxygen Ltd. Method and means for priming a liquid pump. 3,140,665, 7–14–64, Cl. 103—87.
Robson, Aubrey H., to American Air Filter Co., Inc. Air heating method and apparatus. 3,134,582, 5–26–64, Cl. 263—19.
Robson, Frederick W., to Toledo Scale Corp. Safety switch and door lock for dishwashing machines. 3,141,467, 7–21–64, Cl. 134—58.
Robson, Homer L., and W. H. Sheltmire, to Olin Mathieson Chemical Corp. Calcium hypochlorite article. 3,154,495, 10–27–64, Cl. 252—99.
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Robson, William G.: *See*—
Skinner, Charles H., and Robson. 3,125,023.
Robson, William S., to United Kingdom Atomic Energy Commission. Nuclear reactor fuel elements. 3,147,193, 9–1–64, Cl. 176—77.
Robugen G.m.b.H.: *See*—
Pfleiderer, Wolfgang, and Strauss. 3,147,257.
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Roche, Jean A. F., to General Electric Co. Control system. 3,132,565, 5–12–64, Cl. 91—171.
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Roche, Roland, J.-M. Hässig, and P. Cousseran, to Commissariat a l'Energie Atomique. Device for anchoring and extracting plugs in and from fuel channel of nuclear reactors. 3,125,123, 3–17–64, Cl. 138—89.
Roche, Roland, and B. Vrillon, to Commissariat a l'Energie Atomique. Support housing for externally supporting fuel elements. 3,163,584, 12–29–64, Cl. 176—41.
Roche, Thomas F. Safety lantern. 3,125,300, 3–17–64, Cl 240—37.1.
Roche, Thomas M. Insect eradicator. 3,123,933, 3–10–64, Cl. 43—139.
Rocher, Calvin. Spraying machine. 3,118,607, 1–21–64, Cl. 239—104.
Rocher, Pierre M., and C. G. Thomas, to Lentilles Ophtalmiques Rationnelles. Manufacturing of corneal lenses. 3,160,039, 12–8–64, Cl. 82—13.
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Rochester, Nathaniel, to International Business Machines Corp. Memory system. 3,141,980, 7–21–64, Cl. 307—88.5.
Rochie, Norlin J., and W. B. Pegram, to International Resistance Co. Pressure transducer. 3,123,791, 3–3–64, Cl. 338—40.
Rochlin, Morris, to Foamade Industries. Method for finish shaping foamed plastic. 3,123,656, 3–3–64, Cl. 264—321.
Rochlin, Robert S., to General Electric Co. Radioactive heat source and container with helium permeable window in the container. 3,133,396, 5–12–64, Cl. 250—106.
Röchling, Hans: *See*—
Büchel, Karl H., Röchling, and Korte. 3,130,203.
Rochlitz, Fritz: *See*—
Starck, Werner, Rochlitz, Winter, and Vilcsek. 3,134,744.
Rochman, Richard H. E., to Potter Instrument Co., Inc. Digital recording tape transport damping system. 3,130,936, 4–28–64, Cl. 242—75.3.
Rochow, Eugene G., to General Electric Co. Polymeric organic silicon compound. 3,159,668, 12–1–64, Cl. 260—448.2.
Rock, Frank C. Color analyzing arrangement. 3,133,201, 5–12–64 Cl. 250—226.
Rockafellow, Laura M.: *See*—
Rockafellow, Stuart C. 3,143,698.
Rockafellow, Stuart C., to Robotron Corp. Synchronous weld timer using semiconductor controlled rectifiers. 3,129,341, 4–14–64, Cl. 307—88.5.
Rockafellow, Stuart C., deceased; by L. M. Rockafellow, to Robotron Corp. Pulse generating from a single-phase or multi-phase A.C. source. 3,143,698, 8–4–64, Cl. 323—18.
Rocker, Elmer, to Century Products, Inc. Tub-rail supported infant's bath. 3,151,336, 10–6–64, Cl. 4—4.
Rocket Power, Inc.: *See*—
Wagenseller, Samuel G. 3,146,668.
Rockett, Jack, to Esso Research and Engineering Co. Lubricating oil compositions having a high viscosity index. 3,127,349, 3–31–64, Cl. 252—32.7.
Rockett, William C. Loom reed. 3,154,110, 10–27–64, Cl. 139—192.
Rockford Machine Tool Co.: *See*—
Olson, Philip E. 3,152,514.
Rock Hill Printing & Finishing Co.: *See*—
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Weisz, Herman S., and Scheffler. 3,147,954.
Rocklin, Albert L., to Shell Oil Co. Production of oxacycloalkanes from alkylene halodydrins. 3,156,701, 11–10–64, Cl. 260—333.
Rocklin, Sol R., to North American Aviation, Inc. Thermoelectric pump. 3,116,693, 1–7–64, Cl. 103—1.
Rockmann, Herbert, to Olympia Werke AG. Carrying arrangement for recording apparatus. 3,136,408, 6–9–64, Cl. 206—1
Rockoff, Joseph, to Dayco Corp. Hydrolysis resistant polyester urethanes. 3,150,114, 9–22–64, Cl. 260—45.95.
Rockola, David C., to Rock-Ola Mfg. Corp. Automatic phonograph. 3,129,005, 4–14–64, Cl. 274—10.
Rock-Ola Mfg. Corp.: *See*—
Murphy, Francis T. 3,158,246.
Rockola, David C. 3,129,005.
Rocks, Ewalt H., and M. L. Busby, to Rheem Mfg. Co. Method and apparatus for external coating of objects. 3,155,545, 11–3–64, Cl. 118—621.
Rockwell, Charles N., to Fibre Drum Co. Positive latching means for container clamping rings. 3,156,494, 11–10–64, Cl. 292—256.69.
Rockwell, Ernest B. Beverage brewing machine. 3,143,955, 8–11–64, Cl. 99—289.
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Seyffer, Max, and Ruess. 3,149,383.
Rockwell, Harvey W., to Allis-Chalmers Mfg. Co. Four wheel vehicle. 3,122,850, 3–3–64, Cl. 37—144.
Rockwell, Harvey W., to Allis-Chalmers Mfg. Co. Load indicator for material handling vehicle. 3,154,160, 10–27–64, Cl. 177—141.
Rockwell, Harvey W., and D. W. Hawk, to Allis-Chalmers Mfg. Co. Earth mover frame stabilizer. 3,118,238, 1–21–64, Cl. 37—129.
Rockwell, Harvey W., and D. W. Hawk, to Allis-Chalmers Mfg. Co. Earth mover. 3,129,522, 4–21–64, Cl. 37—129.
Rockwell, Jarvis W., to South Bend Toy Mfg. Co., Inc. Table-chair combination. 3,155,426, 11–3–64, Cl. 297—136.
Rockwell Mfg. Co.: *See*—
Bell, Joe W., and Fowler. 3,139,906.
Caywood, William P. 3,157,352.
D'Amelio, Carlo. 3,145,566.
Diehl, John H., Warrick, and Pettigrew. 3,146,628.
Diehl, John H., Weikart, and Nenstiel. 3,128,661
Frostad, Lars. 3,121,875.
Gestler, David J. 3,160,008.
Herring, Rrobert H., and Neubauer. 3,147,766.
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Johnson, Leonard L., and Wagner. 3,132,798.
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McGay, John B. 3,136,130.
Norman, Melvin H. 3,139,027.
Pakvis, Adrianus. 3,135,494.
Pedersen, Dane H. 3,126,929.
Pettigrew, David D. 3,118,325.
Pettigrew, David D. 3,156,127.
Renfrew, Paul B. 3,162,422.
Sarraf, Robert J., and Steele. 3,134,736.
Schaberg, Burt P. 3,125,116.
Scherer, George F. 3,121,686.
Scherer, George F. 3,132,104.
Wheelbarger, Albert S., and Ruck. 3,160,256.
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Bixby, Leo A. 3,150,532.
Boughner, Lawrence G. 3,132,531.
Davenport, Kenneth G. 3,160,479.
Gade, John C., and Graham. 3,135,671.
Gonia, August T., Fante, and Shepard. 3,141,481.
Greene, Robert R. 3,153,132.
Hallam, William A. 3,145,984.
Hampson, John C. 3,156,457.
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House, Bryan E., and Cumming. 3,154,178.
Madson, Robert R. 3,153,326.
Scheel, Walther F. 3,157,444.
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Rockwood, Albert M.: *See*—
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Rockwood & Co.: *See*—
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Theilig, Arthur W. 3,147,737.
Theilig, Arthur W. 3,147,738.
Rocky Creek Mills, Inc.: *See*—
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Rocton, Lucien, to Compagnie Industrielle des Telephones. Step-by-step control device. 3,132,527, 5–12–64, Cl. 74—84.
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Rodder, Jerome A. Support. 3,143,087, 8–4–64, Cl. 108—116.
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Rode, Johannes, to Telefonbau und Normalzeit G.m.b.H. Signalling systems. 3,128,416, 4–7–64, Cl. 317—146.
Rodeback, Maurice J. Stud clamp. 3,122,354, 2–25–64, Cl. 254—131.
Roden, Ted K. Cigarette package holder. 3,157,927, 11–24–64, Cl. 24—3.
Rodenacker, Wolf, to Farbenfabriken Bayer Aktiengesellschaft. Extrusion worm for the melting of organic thermoplastics. 3,131,430, 5–5–64, Cl. 18—12.
Rodenacker, Wolf, to Farbenfabriken Bayer Aktiengesellschaft. Apparatus for plasticizing. 3,151,353, 10–6–64, Cl. 18—2.
Rodenbeck, Lorence: *See*—
Menki, Russell J. 3,150,729.
Rodenkirchen, Theodore P., to McQuay-Norris Mfg. Co. Piston ring assembly with improved bearing contact. 3,140,096, 7–7–64, Cl. 277—141.
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Lutze, Walter, and Roder. 3,136,129.
Roderburg, Gerd, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Treatment of siliceous pigment. 3,148,026, 9–8–64, Cl. 23—182.

Roderick, Marshall E. Protective garment for athletes. 3,135,961, 6–9–64, Cl. 2—2.
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Kraft, Frank B., and Rodger. 3,125,818.
Rodgers, Franklin A., and C. L. Corderman, to Massachusetts Institute of Technology. Perforated matrix character writing cathode ray display tube. 3,139,574, 6–30–64, Cl. 313—86.
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Rodgers, James S. 3,142,210.
Rodgers, James M., and R. C. Kinstler, to American Cyanamid Co. Process for preparing N,N-diisopropylbenzothiazole-2-sulfenamide. 3,161,648, 12–15–64, Cl. 260—306.6.
Rodgers, James S., to Rodgers Hydraulic, Inc. Power operated wrench with two-speed drive. 3,142,210, 7–28–64, Cl. 81—57.
Rodgers, John L., and J. P. Milionis, to American Cyanamid Co. Organic polymeric materials stabilized with substituted hydrazones. 3,149,021, 9–15–64, Cl. 260—45.9.
Rodgers, John S., to Devere Co. Variable speed pulley. 3,122,933, 3–3–64, Cl. 74—230.17.
Rodgers, Lionel M., to Laboratory For Electronics, Inc. Aircraft tracking and indicating system. 3,152,315, 10–6–64, Cl. 340—23.
Rodgers, Loyal J., to Amsted Industries Inc. Master cylinder. 3,150,974, 12–8–64, Cl. 60—54.6.
Rodgers, Robert T., to J. A. and I. D. Wood, d.b.a. Ivy Packet Co. Condiment packet. 3,156,355, 11–10–64, Cl. 206—56.
Rodgers, William, and A. G. Forrest, to Republic Steel Corp. Manganese aluminum alloy for deoxidizing steel. 3,119,-688, 1–28–64, Cl. 75—129.
Rodges, Bonnie. Ice guard. 3,150,084, 9–22–64, Cl. 210—469.
Rodi & Wienenberger Aktiengesellschaft: *See*—
Kunzmann, Ludwig. 3,138,917.
Kunzmann, Ludwig, and Wolf. 3,132,470.
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Drisch, Nicolas, Herrbach, and Rodier. 3,139,467.
Rodier, Jean: *See*—
Lefillatre, Guy, Rodier, and Scheidhauer. 3,142,648.
Rodis, Franz: *See*—
Harnisch, Heinz, Bielenberg, and Rodis. 3,148,042.
Rodis, Franz, and J. Cremer, to Knapsack-Griesheim Aktiengesellschaft. Aggregates of slags. 3,118,778, 1–21–64, Cl. 106—86.
Rodler, Hans, to Fritz Schwarzer, G.m.b.H. Apparatus for testing blood-flow conditions. 3,131,689, 5–5–64, Cl. 128—2.1.
Rodman, Sayre: *See*—
Whetzel, Joshua C., Jr., and Rodman. 3,124,531.
Rodoverken Svenungsson & Co.: *See*—
Hellander, Karl A. 3,160,733.
Rodrigue, Wilbrod G. Seal tip. 3,118,451, 1–21–64, Cl. 131—11.
Rodrigue, Wilbrod G. Cue stick chalking device. 3,131,933, 5–5–64, Cl. 273—19.
Rodriguez, Eduardo. Aircraft and control means therefor. 3,138,347, 6–23–64, Cl. 244—12.
Rodway, John, to Automotive Products Co. Ltd. Control system for hydrokinetic type brake device. 3,136,392, 6–9–64, Cl. 188—90.
Rodwell, William: *See*—
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Rodzewich, Edward A., to Amchem Products, Inc. Phosphate coating solution and method of coating ferriferous metal 3,129,121, 4–14–64, Cl. 148—6.15.
Rodzewich, Edward A., to Amchem Products, Inc. Solution for and method of coating ferriferous surfaces. 3,129,122, 4–14–64, Cl. 48—6.15.
Rodzewich, Edward A., to Amchem Products, Inc. Method and solution for applying a phosphate conversion coating on ferriferous surfaces. 3,129,123, 4–14–64, Cl. 148—6.15.
Roe, Anthony M., and G. L. Willey, to Smith Kline & French Laboratories. 2,3-dihydro-2-benzofuran-amines. 3,131,199, 4–28–64, Cl. 260—346.2.
Roe, Benson B.: *See*—
McKay, Lester M., and Roe. 3,154,079.
Roe, Charles A.: *See*—
Postlewaite, William R., and Roe. 3,126,103.
Roe, Charles C., to Warner Electric Brake & Clutch Co. Power transfer device. 3,127,791, 4–7–64, Cl. 74—675.
Roe, Charles C., to Warner Electric Brake & Clutch Co. Eddy current dynamometer. 3,135,111, 6–2–64, Cl. 73—134.
Roe, Charles C., to Le Tourneau-Westinghouse Co. Plural motor variable speed gear drive. 3,161,083, 12–15–64, Cl. 74—675.
Roe, Homer D. Quick disconnect fitting. 3,127,199, 3–31–64, Cl. 285—165.
Roe, Ralph C., to Burns and Roe, Inc. Heat storage for building heating. 3,131,865, 5–5–64, Cl. 237—16.
Roe, Robert F., and H. Steinhauer, Jr., 10% to R. L. Farr. Remote metering device. 3,127,594, 3–31–64, Cl. 340—203.
Roe, Ronald W., to General Motors Corp. Adjustable pedal for vehicle. 3,151,499, 10–6–64, Cl. 74—560.
Roeber, Henry W., and L. D. Schwender, to Sylvania Electric Products Inc. Applying emissive leaves to cathode sleeves. 3.144,373. 8–11–64. Cl. 156—361.
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Roeckner, Martin. Rolling mill for tubular workpieces. 3,133,460, 5–19–64, Cl. 80—12.
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Roecks, Carl C., and M. Swetlitz, to General Electric Co. Food broiling oven. 3,154,005, 10–27–64, Cl. 99—389.
Roeder, John, Jr.: *See*—
Phillips, Benjamin A., and Roeder. 3,124,941.
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Campbell, Hobart T., Monahan, and Roeder. 3,144,168.
Campbell, Hobart T., Monahan, and Roeder. 3,151,359.
Campbell, Hobart T., Monahan, and Roeder. 3,157,911.
Roehm, Frederick E. Projecting device. 3,125,287, 3–17–64, Cl. 231—2.
Roehn, Herbert F., Jr., to Bates Packaging Services, Inc. Ice cream sandwich machine. 3,119,353, 1–28–64, Cl. 107—1.
Roehr Products Co., Inc.: *See*—
Higgins, John L., and Deuschle. 3,130,724.
Roehrdanz, Elroy C. Sabots. 3,141,412, 7–21–64, Cl. 102—93.
Roehrig, Phillip J.: *See*—
Andersen, Clifford W., and Roehrig. 3,139,780.
Andersen, Clifford W., and Roehrig. 3,147,659.
Roelco, Inc.: *See*—
Ely, Laurice D. 3,131,250.
Roelen, Otto: *See*—
Büchner, Karl, Meis, and Roelen. 3,125,605.
Roelen, Otto, to Ruhrchemie Aktiengesellschaft. Process for the production of shape parts of plasticized polyethylene. 3,134,830, 5–26–64, Cl. 264—126.
Roelen, Otto, and W. Rottig, to Ruhrchemie Aktiengesellschaft. Production of aliphatic unsaturated nitriles. 3,153,665, 10–20–64, Cl. 260—465.3.
Roelen, Otto, and W. Rottig, to Ruhrchemie Aktiengesellschaft. Method of recovering acrolein and methacrolein produced by oxidation of olefins. 3,162,514, 12–22–64, Cl. 55—31.
Roelsgaard, Knud, to Clausen M. Danfoss ved ing. Hermetically sealed refrigerating machine. 3,154,245, 10–27–64, Cl. 230—232.
Roerty, Dennis F., to Westinghouse Electric Corp. Electrical measuring instruments. 3,128,144, 4–7–64, Cl. 346—140.
Roes, John B., to General Dynamics Corp. Energy storage device. 3,158,750, 11–24–64, Cl. 307—84.
Roesch, Ernst, to Super Mold Corp. of California. Tread builder for tire retreading. 3,162,563, 12–22–64, Cl. 156—411.
Roesch, Franklyn W., and R. M. Bluck, to Thompson Ramo Wooldridge Inc. Sectionalized motor case construction. 3,123,243, 3–3–64, Cl. 220—3.
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Roeser, John O., to Illinois Tool Works Inc. Lighted push button switch assembly. 3,157,771, 11–17–64, Cl. 200—167.
Roeser, John O., to Illinois Tool Works Inc. Electrically lightable latchable push button assembly. 3,161,743, 12–15–64, Cl. 200—87.
Roeser, John O., to Illinois Tool Works, Inc. Rotary snap action switching mechanism with locking means. 3,163,724, 12–29–64, Cl. 200—18.
Roeske, Eugene A., to Borg-Warner Corp. Hydrostatic transmission. 3,143,858, 8–11–64, Cl. 60—53.
Roesler, Joseph F.: *See*—
McCully, Charles R., Van Scoyoc, and Roesler. 3,153,-577.
Roesling, Raymond E., to J. M. Riley. Engine supercharging apparatus. 3,142,957, 8–4–64, Cl. 60—13.
Roessel, Theodore B.: *See*—
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Roessler, Charles E., Jr., to Howe Richardson Scale Co Printed circuit formula card systems and their components. 3,138,754, 6–23–64, Cl. 323—96.
Roessler, Henry W., Jr., to FMC Corp. Plugging device 3,148,922, 9–15–64, Cl. 308—198.
Roessler, Henry W., Jr., to FMC Corp. Packing for swivel joints. 3,156,476, 11–10–64, Cl. 277—95.
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Goldsmith, Henry A., and Roessler. 3,138,556.
Kaveggia, Frederick S., and Roessler. 3,138,485.
Roetken, Alfred A.: *See*—
Hall, William G., and Roetken. 3,154,642.
Roffey, William A.: *See*—
Chalmers, John W., Hall, and Roffey. 3,118,455.
Rogal, Edward, to Universal Controls, Inc. Central office massive memory recording system. 3,121,159, 2–11–64, Cl. 235—61.6.
Rogal, Edward, to Universal Controls, Inc. Data collating system. 3,129,321, 4–14–64, Cl. 235—61.7.
Rogallo, Vernon L., to United States of America, National Aeronautics and Space Administration. Propeller blade loading control. 3,144,999, 8–18–64, Cl. 244—51.
Rogers and Ake Co.: *See*—
Shields, Harold L., and Goda. 3,137,356.
Rogers, Albert P., to Brunswick Corp. Pin handling apparatus for selectively setting less than ten pins for practice bowling. 3,153,538, 10–20–64, Cl. 273—43.

Rogers, Alden: *See*—
Brown, Donald L., and Rogers. 3,128,466.
Rogers, Arthur O., to E. I. du Pont de Nemours and Co. 2,6-dicyanopiperidine and its production via glutaraldehyde dicyanhydrin as an intermediate. 3,147,267, 9–1–64, Cl. 260—293.
Rogers, Asa S., Jr.: *See*—
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Rogers, Brian H., to Normalair Ltd. Aircraft air conditioning system. 3,153,331, 10–20–64, Cl. 62—241.
Rogers, C. E., Co.: *See*—
Henszey, Richard R. 3,129,131.
Rogers, Charles E., ½ to J. E. Ake. Apparatus for determining and expressing rate. 3,159,340, 12–1–64, Cl. 235—61.
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Anderson, Paul L., and Zagusta. 3,161,945.
Rogers, Cyril B., to Clark Equipment Co. Tank enclosure for a vehicle. 3,134,603, 5–26–64, Cl. 280—5.
Rogers, Cyril B., to Clark Equipment Co. Material handling machine. 3,145,865, 8–25–64, Cl. 214—512.
Rogers, Cyril B., to Clark Equipment Co. Steering arrangement and hydrostatic drive for articulated vehicle. 3,151,-694, 10–6–64, Cl. 180—51.
Rogers, David W.: *See*—
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Rogers, Dilworth T., and J. P. McDermott, to Esso Research and Engineering Co. Antistatic additives and their preparation. 3,161,486, 12–15–64, Cl. 44—51.
Rogers, Donald G., and F. D. Frantz, Jr., to Sprague Electric Co. Method of closure. 3,121,937, 2–25–64, Cl. 29—25.31.
Rogers, Douglas A. Discharge section for rotary blade thin film processors. 3,137,608, 6–16–64, Cl. 159—6.
Rogers, Edgar A. Mold board asphalt cutter wheel assembly. 3,140,898, 7–14–64, Cl. 299—86.
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Rogers, Edith K.: *See*—
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Rogers, Edward F.: *See*—
Clark, Robert L., and Rogers. 3,141,820.
Rogers, Edward F., and L. H. Sarett, to Merck & Co., Inc. Compositions and methods for treating coccidiosis. 3,155,-572, 11–3–64, Cl. 167—53.1.
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Rogers, Evelyn: *See*—
Schiltz, Lee R., and Rogers. 3,151,084.
Rogers, Francis R.: *See*—
Peczkowski, Joseph L., and Rogers. 3,152,444.
Rogers, Frank: *See*—
Jefferson, Sidney, and Rogers. 3,142,759.
De Boy, Marvin F., Rogers, and Flexman. 3,149,806.
Rogers, Harold W., to Pullmax Aktiebolag. Sheet metal forming tools. 3,119,432, 1–28–64, Cl. 153—21.
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Blout, Elkan R., Green, and Rogers. 3,134,672.
Blout, Elkan R., Green, and Rogers. 3,134,764.
Blout, Elkan R., Green, Rogers, and Simon. 3,142,565.
Green, Milton, and Rogers. 3,135,604.
Green, Milton, and Rogers. 3,135,734.
Haas, Howard C., and Rogers. 3,121,011.
Rogers, Howard L. Measuring pump dispenser. 3,141,580, 7–21–64, Cl. 222—213.
Rogers, Inc.: *See*—
Rogers, Leonard G. 3,132,499.
Rogers, James E. Device for rounding the corners of various types of paper or card stock. 3,160,069, 12–8–64, Cl. 90—15.
Rogers, James L. Low-boy trailer. 3,147,871, 9–8–64, Cl. 214—506.
Rogers, James T., Jr.: *See*—
Trickett, Kenneth A., and Rogers. 3,121,046.
Rogers, James W. Pea and bean slitting devices. 3,120,232, 2–4–64, Cl. 130—30.
Rogers, James W., to United States of America, Navy. Impact test apparatus. 3,130,575, 4–28–64, Cl. 73—12.
Rogers, Jesse L. Sectional impression roller for rotary duplicating machines. 3,138,093, 6–23–64, Cl. 101—91.
Rogers, Jesse P. Hand tool for rotating a threaded bearing axially movable clutching handle sections. 3,127,797, 4–7–64, Cl. 81—58.3.
Rogers, John D., Jr., and H. J. Scheule, to E. I. du Pont de Nemours and Co. Anti-stalling composition. 3,130,018, 4–21–64, Cl. 44—72.
Rogers, John H. Earth conditioning implement. 3,130,796, 4–28–64, Cl. 172—117.
Rogers, John L., to Space Technology Laboratories, Inc Superconductive device utilizing a ferromagnetic superconductive element. 3,125,688, 3–17–64, Cl. 307—88.5.
Rogers, John L., to Space Technology Laboratories. Superconductive transformer. 3,143,720, 8–4–64, Cl. 336—155.
Rogers, Kenneth H., and W. Pfenninger, to Northrop Corp. Means for removing boundary layer air from aircraft. 3,117,751, 1–14–64, Cl. 244—42.
Rogers, Leonard G., to Rogers, Inc. Gas lighter. 3,132,499, 5–12–64, Cl. 67—7.1.
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Rogers, Louis J., to Union Carbide Corp. Fail-safe radioactive absorption apparatus for liquid level determination. 3,133,192, 5–12–64, Cl. 250—43.5.
Rogers, Marvin C., and P. F. Borth, to Photo-Engravers Research, Inc. Powderless etching. 3,136,670, 6–9–64, Cl. 156—13.
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De Vries, Machiel. 3,136,555.
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Ronzani, Angelo, to Secoblitz-Industria Meccanica, S.p.A. Apparatus for cutting marble blocks into slabs. 3,148,673, 9–15–64, Cl. 125—13.
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Rooney, William J. Containers and closure means therefor. 3,151,777, 10–6–64, Cl. 222—92.
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Roop, Robert W., to General Atronics Corp. Educational apparatus. 3,139,688, 7–7–64, Cl. 35—9.
Roorda, Harry W., J. A. Gresch, and R. D. Beard, to Wisconsin Motor Corp. Climatic control apparatus for an air cooled engine. 3,155,082, 11–3–64, Cl. 123—41.05.
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Root, Charles W., to The Bendix Corp. Electrical apparatus. 3,145,700, 8–25–64, Cl. 123—179.
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Root, John J. Animal stunner. 3,122,776, 3–3–64, Cl. 17—1.
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Root, Raymond C., to Dale Electronics, Inc. Adjustment indicator for panel-mounted trimmer potentiometers. 3,150,635, 9–29–64, Cl. 116—124.
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Root, Raymond C., to Dale Electronics, Inc. Variable potentiometer. 3,153,218, 10–13–64, Cl. 338—190.
Root, Robert S., to Lipe-Rollway Corp. Oil immersed, actuated clutch and brake assembly. 3,157,257, 11–17–64, Cl. 192—18.
Root, Wilbur L. Torch cutting guide attachment. 3,139,471, 6–30–64, Cl. 266—23.
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Roper, Charles G., to C. Garland Roper. Electrical meter having its spiral springs protectively surrounded by zero setting cage structure. 3,155,906, 11–3–64, Cl. 324—154.
Roper, Charles G., E. S. Gilchrist, and H. E. Lockery, to Robertshaw Controls Co. Miniaturized electronic indicating controller unit for process control systems. 3,117,310, 1–7–64, Cl. 340—187.
Roper, Charles G., E. S. Gilchrist, and F. P. Finck, Jr., to Robertshaw Controls Co. Computer employing electromechanical balance. 3,127,510, 3–31–64, Cl. 235—193.
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Rorig, Kurt J., to G. D. Searle & Co. 5-[α,β-bis(-oxyphenyl) ethyl]-1H-tetrazoles. 3,123,615, 3–3–64, Cl. 260—308.
Rorig, Kurt J., to G. D. Searle & Co. Optionally α-substituted 1-amino-2,3, or 4-(cyclohexyl/phenyl)methylpiperidines and precursors. 3,128,276, 4–7–64, Cl. 260—293.
Rorig, Kurt J., to G. D. Searle & Co. 1-(alkoxylated/halogenated phenyl)-3-pyridylmethylureas. 3,128,280, 4–7–64, Cl. 260—295.
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Rorig, Kurt J., to G.D. Searle & Co. Amino esters of 2,3-bis(p-methoxyphenyl)substituted 1-pentanol and pentanoic acid. 3,152,143, 10–6–64, Cl. 260—326.3.
Rorig, Kurt J., and H. A. Wagner, to G. D. Searle & Co. Certain 4-trifluoromethyl-2-(oxy/thio) pyrimidines. 3,149,109, 9–15–64, Cl. 260—251.
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Rosa, Richard J., to Avco Corp. Gas and liquid contact heat exchanger. 3,118,008, 1–14–64, Cl. 261—1.
Rosa, Richard J., to Avco Corp. Electrical generator. 3,148,-291, 9–8–64, Cl. 310—11.
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Rosaen, Nils O., to The Rosaen Filter Co. Vacuum responsive valve. 3,117,525, 1–14–64, Cl. 103—41.
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Rosaen, Oscar E., to The Rosaen Filter Co. Fluid filtering device. 3,129,171, 4–14–64, Cl. 210—108.
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Rosán, José, and A. J. La Torre, to Rosan Engineering Corp. Wire coil insert having plastically deformable head portion and method of making same. 3,162,228, 12–22–64, Cl. 151—41.72.
Rosán, José, and A. J. La Torre, to Rosan Engineering Corp. Two piece insert. 3,163,197, 12–29–64, Cl. 151—41.73.
Rosán, Joseph, to Rosan Engineering Corp. Sheet metal fasteners, driving tools, and method of driving. 3,125,-146, 3–17–64, Cl. 151—41.73.
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Rose, Dalton H. Tractor cutoff switch. 3,116,806, 1–7–64, Cl. 180—82.
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Rose, George M., Jr., to Radio Corp. of America. Reed switch having improved reed positioning means. 3,124,670,-3–10–64, Cl. 200—87.
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Rose, Joseph K. Remotely operated hand crank and gear drive for orientation of antennas on a mast. 3,146,452, 8–25–64, Cl. 343—758.
Rose, Kaye L. Photographic corners. 3,125,460, 3–17–64, Cl. 117—44.
Rose, Leslie C., to Thompson Ramo Wooldridge Inc. Hydrazine gas generator. 3,147,592, 9–8–64, Cl. 60—39.46.
Rose, Maurice T., Jr., and R. A. Kinkle, to General Electric Co. Broil unit for top viewing oven. 3,128,363, 4–7–64, Cl. 219—35.
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Rose, Robert F., to Dixon Automatic Tool, Inc. Machine control systems. 3,137,212, 6–16–64, Cl. 91—189.
Rose, Steven L., to Calweld Inc. Earth boring and conduit laying machine. 3,162,254, 12–22–64, Cl. 173—148.
Rose, Werner P. Removable cloth dyeing jig beam. 3,117,-740, 1–14–64, Cl. 242—68.4.
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Rosen, Harold A., to Hughes Aircraft Co. Apparatus providing a rotating directive antenna field pattern associated with a spinning body. 3,133,282, 5–12–64, Cl. 343—100.
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Rosen, Norman J., R. H. Lewis, and H. C. Stanley, to Datex Corp. Contact elements for perforated record reading devices. 3,156,793, 11–10–64, Cl. 200—46.
Rosen, Perry H., to Electro Scientific Industries, Inc. Instrument control dial assembly. 3,150,634, 9–29–64, Cl. 116—124.
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Rosenberg, David J., to Pall Corp. Gas detecting method and apparatus. 3,144,850, 8–18–64, Cl. 116—67.
Rosenberg, David S., and H. Flaxman, to Hooker Chemical Corp. Process for the purification of thionyl chloride. 3,156,529, 11–10–64, Cl. 23—203.
Rosenberg, Harold B., and S. Schomberg, to Electronic Devices, Inc. Apparatus for manufacturing selenium rectifiers. 3,116,657, 1–7–64, Cl. 83—92.
Rosenberg, Harold J., to Control Data Corp. Switching system for conveyor system. 3,153,705, 10–20–64, Cl. 200—18.
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Rosenberg, Harvey, to Burroughs Corp. Magnetic recording. 3,126,547, 3–24–64, Cl 346—74.
Rosenberg, Herbert O. Safety belt buckle for vehicle occupants. 3,144,697, 8–18–64, Cl. 24—242.
Rosenberg, Herbert O. Buckles for safety belts. 3,162,915, 12–29–64, Cl. 24—196.
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Rosenberg, Leon T., to Allis-Chalmers Mfg. Co. Thermally balanced rotor. 3,163,789, 12–29–64, Cl. 310—53.
Rosenberg, Samuel J., and T. P. Royston, Jr., to United States of America, Commerce. High-density, nonmagnetic stainless steel. 3,156,558, 11–10–64, Cl. 75—128.
Rosenberg, Sidney. Marine powered generator. 3,141,564, 10–6–64, Cl. 103—66.
Rosenberger, Albert J., to Republic Flow Meter Corp. Ratio indicator. 3,162,047, 12–22–64, Cl. 73—407.
Rosenberger, Frank B., H. Jolliff, and L. Campanaro, to Allied Chemical Corp. Flame-retardant urea-formaldehyde molding compounds. 3,138,565, 6–23–64, Cl. 260—17.3.
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Rosenberger, Harold E., and R. F. Schuma, to Bausch & Lomb Inc. Slide preheating means for projectors. 3,116,662, 1–7–64, Cl. 88—28.
Rosenberry, George M., to General Electric Co. Control system for a generator. 3,121,836, 2–18–64, Cl. 322—24.
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Rosenblatt, Maurice C. Acoustical and luminous ceiling structure. 3,147,926, 9–8–64, Cl. 240—9.
Rosenblatt, Theodore M., and J. Sosnowski, to Esso Research and Engineering Co. Start-up process for combined hydroforming hydrofining operation. 3,122,495, 2–25–64, Cl. 208—97.
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Rosenfeld, Aaron, and K. Kupferberg, to Forbro Design Inc. Transistorized power supply. 3,128,423, 4–7–64, Cl. 323—22.
Rosenfeld, Aaron, and K. Kupferberg, to Forbro Design Inc. Protective system for transistor regulator. 3,131,344, 4–28–64, Cl. 323—22.
Rosenfeld, Morton M. Door for bomb shelter. 3,122,984, 3–3–64, Cl. 98—87.
Rosenfeld, Morton M. Boiler having refractory headers. 3,123,055, 3–3–64, Cl. 122—235.
Rosenfeld, Morton M. Door structure. 3,150,618, 9–29–64, Cl. 109—1.
Rosenfeld, Morton M. Door structure. 3,159,093, 12–1–64, Cl. 98—87.
Rosenfeld, Morton M. Cylindrical bombshelter. 3,159,117, 12–1–64, Cl. 109—1.
Rosenfeld, Morton M. Door cleaning apparatus. 3,159,118, 12–1–64, Cl. 109—1.
Rosenfeld, Myer, and R. E. Wagner, Jr., to United States of America, Army. Solvent degreasing self-emulsifying cleaning composition. 3,146,207, 8–25–64, Cl. 252—118.
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Solorow, Russell S., and Rosenfeld. 3,120,989.
Rosenfelder, William J., and E. Breznak, to Rosett Chemicals Inc. Composition comprising halogen-containing resin and diphosphite stabilizer. 3,133,043, 5–12–64, Cl. 260—45.8.
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Over, William R., Rosengren, and Vickery. 3,143,790.
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Rosenhaft, Lionel H. Twin chamber motor assembly. 3,156,163, 11–10–64, Cl. 92—113.
Rosenheim, David J., to Laurel Plastics, Inc. Combination handle and trifoil wand device for blowing bubbles from a soap solution. 3,144,950, 8–18–64, Cl. 215—100.
Rosenkrands, John W., H. L. Beck, and H. E. Boettger, to General Motors Corp. Suspension control arm and spring assembly. 3,121,561, 2–18–64, Cl. 267—57.
Rosenkrands, John W., and M. A. Isaacson, to General Motors Corp. Variable rolls rate swing axle suspension. 3,149,690, 9–22–64, Cl. 180—73.
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Ringold, Howard J., Rosenkranz, and Edwards. 3,125,591.
Rosenmund, Hans, and E. Zaugg. Aromatic p,p''-diorthophosphoric acid monoesters. 3,163,670, 12–29–64, Cl. 260—461.
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Rosenow, Monroe H., to ABC Industries, Inc. Golf club cover. 3,145,749, 8–25–64, Cl. 150—52.
Rosenqvist, Sven O., I. O. V. Lundin, and E. R. Egnell, to Aktiebolaget S.J.A. Method of concentrating fermented yeast suspension. 3,150,980, 9–29–64, Cl. 99—96.
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Rosenthal, Adolph H., to Kollsman Instrument Corp. Scanning system for photosensitive light tracking device. 3,135,869, 6–2–64, Cl. 250—235.
Rosenthal, Adolph H. Drill-hole direction indicator. 3,137,077, 6–16–64, Cl. 33—205.
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Kavesh, Sheldon, Rosenthal, and Halek. 3,156,681.
Rosenthal, Daniel. Disposable bag type receptacles. 3,141,600, 7–21–64, Cl. 229—55.
Rosenthal, David W.: *See*—
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Rosenthal, David W., and J. Fried, to Olin Mathieson Chemical Corp. Triterpenoid acid derivatives. 3,133,057, 5–12–64, Cl. 260—239.57.
Rosenthal, Frederick A., to United States of America, Navy. Self centering ring seal. 3,129,922, 4–21–64, Cl. 253—78.
Rosenthal, Harry. Dispensing apparatus. 3,131,278, 4–28–64, Cl. 219—19.
Rosenthal, Harry. Adhesive applicator for labels and the like. 3,154,434, 10–27–64, Cl. 118—245.
Rosenthal, Howard: *See*—
Kaus, Peter E., and Rosenthal. 3,152,900.
Rosenthal, Louis A., to Union Carbide Corp. Apparatus for measuring viscosity of thermoplastics. 3,116,631, 1–7–64, Cl. 73—56.
Rosenthal, Louis A., to United States of America, Navy. Half-sine wave pulse generator using shock excited resonant circuit discharging through a thyratron. 3,119,068, 1–21–64, Cl. 328—34.
Rosenthal, Murray W., to Block Drug Co., Inc. Strontium ion toothpaste. 3,122,483, 2–25–64, Cl. 167—93.
Rosenthal, Paul, and J. W. Kurzrock, to United States of America, Navy. All weather vortex free-air thermometer. 3,139,751, 7–7–64, Cl. 73—349.
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Rosenthal, Salli A., to The Loewy Engineering Co. Ltd. Extrusion press with rotary die carrier. 3,147,863, 9–8–64, Cl. 207—1.
Rosenthal, Sidney, to United States of America, Air Force. Automatic opening device. 3,150,560, 9–29–64, Cl. 89—1.
Rosenthal, Sol R. Toothbrush. 3,146,478, 9–1–64, Cl. 15—110.
Rosenthal, Sol R. Dental mirror. 3,158,935, 12–1–64, Cl. 32—69.
Rosentiel, Lewis S., to Schenley Industries, Inc. Convertible package. 3,119,494, 1–28–64, Cl. 204—42.
Rosenvold, Carl, to Trans Technion, Inc. Transposing device. 3,118,967, 1–21–64, Cl. 174—147.
Rosenvold, Leo. Detachably mounted cultivator tooth apparatus. 3,125,170, 3–17–64, Cl. 172—762.
Rosenzweig, Adolph. Shopping cart. 3,118,553, 1–21–64, Cl. 214—501.
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Rosher, John W.: *See*—
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Roshkind, Allan I., to A. B. Dick Co. Copy process. 3,148,617, 9–15–64, Cl. 101—149.4.
Roshong, Raymond G., to Crane Packing Co. Method of conditioning a rotatable lap. 3,161,996, 12–22–64, Cl. 51—281.
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Dexter, Martin, Knell, and Roskin. 3,156,690.
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Rösler, Ulrich, to Siemens-Schuckertwerke Aktiengesellschaft. Zirconium alloy. 3,150,972, 9–29–64, Cl. 75—177.
Rosman, Frank G. Infant car bed. 3,145,395, 8–25–64, Cl. 5—94.
Rosner, Carl H.: *See*—
Swartz, Paul S., and Rosner. 3,158,792.
Rosner, Ernest B. Anodizing rack structure. 3,118,545, 1–21–64, Cl. 211—117.
Rosner, Leonard A., to Glamorise Foundations, Inc. Undergarment structure and method of making the same. 3,131,697, 5–5–64, Cl. 128—517.
Rosoff, Stanley, to Pitney-Bowes, Inc. Document feeding apparatus. 3,126,199, 3–24–64, Cl. 271—12.
Ross, Albert A. Convertible child's chair. 3,133,761, 5–19–64, Cl. 297—174.
Ross, Alistair J., and E. R. de Vries, to Prismo Safety Corp. Highway marking composition. 3,136,733, 6–9–64, Cl. 260—40.
Ross, Allan D. Collapsible container with interchangeable spouts. 3,158,110, 11–24–64, Cl. 107—52.
Ross, Alvan R.: *See*—
Thompson, Mortimer S., and Ross. 3,141,778.
Ross, Anthony J. Portable ice making machine. 3,131,551, 5–5–64, Cl. 62—298.
Ross, Anthony J. Refrigeration system including condenser heat exchanger. 3,131,553, 5–5–64, Cl. 62—506.
Ross, Anthony J. Liquid freezing apparatus with renewable freezing wall. 3,143,865, 8–11–64, Cl. 62—354.
Ross, Anthony J. Iced drink dispensing machine. 3,156,103, 11–10–64, Cl. 62—331.
Ross, Anthony J. Auger type liquid freezing apparatus. 3,163,020, 12–29–64, Cl. 62—138.
Ross, Arnold F. Safety indicator for heating system. 3,124,087, 3–10–64, Cl. 110—72.
Ross, Arthur H., to United States of America, Army. Speech security system. 3,123,672, 3–3–64, Cl. 179—1.5.
Ross, Budd H. Container and cover. 3,142,409, 7–28–64, Cl. 220—24.5.
Ross, Charles W. Magnetic separator. 3,149,066, 9–15–64, Cl. 209—223.
Ross, Claire E. Receptacle. 3,137,010, 6–16–64, Cl. 4—141.
Ross, Dan C.: *See*—
Cypser, Rudolph J., Hopkins, Housman, Jeffrey, and Ross. 3,162,839.
Ross, Daniel P.: *See*—
Taylor, John E., and Ross. 3,131,534.
Ross, David C. Apparatus and method of teaching children the alphabet, numbers and the like. 3,136,072, 6–9–64, Cl. 35—5.
Ross, Edward J.: *See*—
Brown, Harry, Green, and Ross. 3,147,465.
Ross, Edward J., to Mine Safety Appliances Co. Non-polarized D.C. transistorized telemetering amplifier. 3,161,833, 12–15–64, Cl. 330—24.
Ross, Elmer M., to Lockheed Aircraft Corp. Cutter guide finger. 3,123,949, 3–10–64, Cl. 51—238.
Ross, Francis J.: *See*—
Eckert, Stanley E., and Ross. 3,118,827.
Ross, Frank, and S. B. Richter, to Velsicol Chemical Corp. 2-alkylmercaptoamino-4-alkylamino-1,3,5-triazines. 3,141,885, 7–21–64, Cl. 260—249.8.
Ross, Frederick W., and M. Kaswen, to United States of America, Army. Anti-missile system. 3,153,367, 10–20–64, Cl. 89—1.
Ross, George A., and G. W. Worrell, to Socony Mobil Oil Co., Inc. Constant-temperature bath. 3,147,364, 9–1–64, Cl. 219—20.
Ross, George P., to National Steel Corp. Galvanized flat rolled product and its manufacture. 3,148,081, 9–8–64, Cl. 117—64.
Ross, Gerhard: *See*—
Hennessen, Walter, Mauler, and Ross. 3,143,473.
Ross, Gilbert W.: *See*—
Fotsch, Arthur H., Fischer, and Ross. 3,118,332.
Ross, Helen: *See*—
Ross, Louis. 3,163,433.
Ross, Howard C. Weather shield for a newspaper box. 3,144,984, 8–18–64, Cl. 232—17.
Ross, Hugh L., to Allis Chalmers Mfg. Co. Split casing pump. 3,160,107, 12–8–64, Cl. 103—111.
Ross, Ian M., to Bell Telephone Laboratories, Inc. Semiconductor pulse generators. 3,131,311, 4–28–64, Cl. 307—88.5.
Ross, Ian M., to Bell Telephone Laboratories, Inc. Semiconductor device including differing energy band gap materials. 3,163,562, 12–29–64, Cl. 148—33.4.
Ross, Irving: *See*—
Cassen, Benedict, and Ross. 3,138,700.
Cassen, Benedict, and Ross. 3,138,709.
Ross, J. L.: *See*—
Salerno, Samuel J. 3,137,092.
Ross, Jack E., to Sperry Rand Corp. Detection of evaporant temperature. 3,117,024, 1–7–64, Cl. 118—49.
Ross, James A.: *See*—
Theodore, Charles, and Ross. 3,163,809.
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Ross, James A., to Ling-Temco-Vought, Inc. Two pole transducer. 3,152,270, 10–6–64, Cl. 310—27.
Ross, James A., to Ling-Temco-Vought, Inc. Multiple delay line solid state pulse modulator. 3,163,782, 12–29–64, Cl. 307—88.5.
Ross, James A., and C. Theodore, to Ling-Temco-Vought, Inc. Voltage controlling circuit for line type modulator with means feeding back excess power to source. 3,139,585, 6–30–64, Cl. 328—65.
Ross, James F., to Esso Research and Engineering Co. Fractionation of polymerization diluent containing acetylacetone. 3,123,591, 3–3–64, Cl. 260—93.7.
Ross, John M., and W. C. Smith, to E. I. du Pont de Nemours and Co. Novel thiadiazole compounds. 3,117,972, 1–14–64, Cl. 260—302.
Ross, John M., and W. C. Smith, to E. I. du Pont de Nemours and Co. Novel thiadiazole compounds. 3,117,973, 1–14–64, Cl. 260—302.
Ross, John M., Jr., and M. A. Noonan, to FMC Corp. Method of preventing yellowing by nitrogen containing resins cured on cellulose fibers by adding hydrogen peroxide of urea peroxide. 3,148,937, 9–15–64, Cl. 8—116.3.
Ross, John W.: *See*—
Thoma, Richard W., and Ross. 3,119,749.
Ross, John W., to Union Carbide Canada Ltd. Post-mixed oxy-fuel oxide reduction. 3,118,758, 1–21–64, Cl. 75—26.
Ross, John W., to Union Carbide Canada Ltd. Positive feed powder dispenser. 3,152,733, 10–13–64, Cl. 222—193.
Ross, John W., and K. W. Hopkins, to B. P. Tanker Co., Ltd. Mooring arrangements for ships. 3,155,069, 11–3–64, Cl. 114—230.
Ross, Joseph I. Hermaphroditic electrical connectors. 3,129,993, 4–21–64, Cl. 339—49.
Ross, Karl F.: *See*—
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Ross, Karl F. Electronic analog computer. 3,138,705, 6–23–64, Cl. 235—194.
Ross, Leonard. Method for brewing and dispensing coffee. 3,120,440, 2–4–64, Cl. 99—71.
Ross, Louis, to H. Ross. Work holding device. 3,163,433, 12–29–64, Cl. 279—46.
Ross-Matthai Corp.: *See*—
Matthai, Louis B. 3,161,291.
Ross, Minor R. Spark plug. 3,145,319, 8–18–64, Cl. 313—125.
Ross Operating Valve Co.: *See*—
Abbott, Daniel B., and Brinkel. 3,131,722.
Kesselring, Walter C. 3,126,795.
Ross, Philip C., to Patent License Corp. Switch interlock and lockout unit. 3,125,895, 3–24–64, Cl. 74—483.
Ross, Philip C., to Patent License Corp. Push-button switch assembly. 3,163,740, 12–29–64, Cl. 200—168.
Ross, Raymond W.: *See*—
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Ross, Richard W. Gas burner with secondary air supply. 3,156,292, 11–10–64, Cl. 158—114.
Ross, Robert E., to Libbey-Owens-Ford Glass Co. Glass bending furnaces. 3,123,344, 3–3–64, Cl. 263—6.
Ross, Robert H.: *See*—
Hirschberg, Guenther, and Ross. 3,127,154.
Ross, Robert S., to Goodyear Aerospace Corp. Method of making an article of stiffened fibrous material. 3,138,506, 6–23–64, Cl. 156—156.
Ross, Russel. Cymbal and sizzle combination. 3,141,370, 7–21–64, Cl. 84—402.
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Finkelstein, Manuel, Ross, and Petersen. 3,118,939.
Ross, Sigmund L. Excavating apparatus and method. 3,152,651, 10–13–64, Cl. 175—11.
Ross, Stuart T., W. E. Jominy, and F. A. Hagen, to Chrysler Corp. Sintered metal article and method of making same. 3,142,894, 8–4–64, Cl. 29—182.5.
Ross-Temp, Inc.: *See*—
Schneider, Louis J. 3,133,428.
Ross, Thomas N., to Hull Instruments, Inc. Wide range signal generator. 3,130,376, 4–21–64, Cl. 331—18.
Ross, Thomas S., to Royal McBee Corp. Method for producing justified typewritten copy and device for practicing same. 3,149,710, 9–22–64, Cl. 197—84.
Ross, Thomas S., and K. V. Scott, to Royal McBee Corp. Typewriter ribbon package. 3,151,724, 10–6–64, Cl. 197—151.
Ross, Walter C. J.: *See*—
Connors, Thomas A., and Ross. 3,162,681.
Ross, Wilford H., Jr.: *See*—
Maloney, James E., and Ross. 3,118,793.
Ross, William A.: *See*—
Allen, Oliver L., Moughty, and Ross. 3,121,896.
Ross, William C., to W. R. Grace & Co. Compressible material for use in printing. 3,147,698, 9–8–64, Cl. 101—149.2.
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Searles, John J., and Ross. 3,142,999.
Ross, William E.: *See*—
Reveal, William S., and Ross. 3,156,738.

Ross, William H., to Sperry Rand Corp. Printer and advancing means. 3,142,246, 7–28–64, Cl. 101—76.
Rossbach, John E.: *See*—
Pyuro, John W., Rossbach, and Williams. 3,132,891.
Rossborough Supply Co.: *See*—
Rossborough, Walter N. 3,150,966.
Rossborough, Walter N., to Rossborough Supply Co. Deoxidizing compositions for steel. 3,150,966, 9–29–64, Cl. 75—134.
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Rossen, Hans A. Cheese moulds. 3,118,229, 1–21–64, Cl. 31—45.
Rossen, Joel N., and K. E. Rumbel, to Atlantic Research Corp. Extrusion process for making propellant grains. 3,155,749, 11–3–64, Cl. 264—3.
Rosser, Ralph M., to The Babcock & Wilcox Co. Check valve structure for the minimization of water hammer. 3,155,112. 11–3–64, Cl. 137—527.8.
Rosser, Reginald J.: *See*—
Davies, Eric T. J., and Rosser. 3,118,377.
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Park, Joseph D., and Rosser. 3,160,660.
Rosset, Jean B.: *See*—
Corbiere, Paul J., and Rosset. 3,117,943.
Rosset, Jean B., to Crylor. Treatment of polyacrylonitrile textile materials. 3,143,437, 8–4–64, Cl. 117—138.8.
Rossetti, Charles, to Simeca S.A. Feeler for key copying machine. 3,127,816, 4–7–64, Cl. 90—62.
Rossi, Anacleto. Belt buckle having enclosed elastically connected sliding elements. 3,150,427, 9–29–64, Cl. 24—163.
Rossi, Bruno B.: *See*—
Giacconi, Riccardo, and Rossi. 3,143,651.
Rossi, Dominic J., to Automatic Timing and Controls, Inc. Timers and the like. 3,120,298, 2–4–64, Cl. 192—.02.
Rossi, Francesco V. Carton handling device. 3,121,300, 2–18–64, Cl. 53—50.
Rossi, Giorgio: *See*—
Losco, Giuseppe, and Rossi. 3,126,405.
Rossi, Giorgio, to Montecatini Societá Generale per l'Industria Mineraria & Chimica. Organic sulfur compounds having fungicidal activity. 3,156,717, 11–10–64, Cl. 260—455.
Rossi, Harry J., to Continental Can Co., Inc. Reclosable pour opening. 3,133,689, 5–19–64, Cl. 229—17.
Rossi, Joseph R., to Blaw-Knox Co. Pipe bundling apparatus. 3,127,829, 4–7–64, Cl. 100—4.
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Kristensen, Paul A., Rossing, and Lundberg. 3,136,929.
Pohm, Arthur V., Rossing, and Mitchell. 3,125,743.
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Rossire, Francis H. S., to The Bendix Corp. Fluid pressure sensitive electrical signal generating device with flexural pivot. 3,132,315, 5–5–64, Cl. 336—30.
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Bonnell, Alfred, Jr., and Rossiter. 3,129,605.
Rossmy, Gerd, to Th. Goldschmidt A.G., Chemische Fabriken. Process for the preparation of aqueous solutions of organosilicon compounds. 3,159,496, 12–1–64, Cl. 106—287.
Rossmy, Gerd to Th. Goldschmidt, A.G. Chemische Fabriken. Aqueous solutions of hydroxypropyl silanols and their preparation. 3,161,611, 12–15–64, Cl. 260—29.2.
Rossoff, Arthur L.: *See*—
Lustig, Howard E., Rossoff, Frelich, and Farr. 3,144,631.
Rostad, Rolf A. Automatic telephonic alarm system. 3,124,650, 3–10–64, Cl. 179—5.
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McInnch, Glenn W., and Rosterman. 3,139,759.
Rostler, Fritz S., to Witco Chemical Co., Inc. Methods for improvement of asphalts and oil emulsions useful therein. 3,162,101, 12–22–64, Cl. 94—23.
Roston, Wayne L. Packaging apparatus. 3,130,105, 4–21–64, Cl. 156—515.
Rota, Beniamino. Automatic machine for the preparation of coffee infusion in doses sufficient for one or two cups. 3,122,988, 3–3–64, Cl. 99—302.
Rotary Hoes Ltd.: *See*—
Howard, Arthur C. and J. A. 3,141,312.
Howard, Arthur C. and J. A. 3,147,818.
Rotary Juicer Co., Inc.: *See*—
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Rotax Ltd.: *See*—
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Johnson, Edwin W. 3,119,952.
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Rotel A.G.: *See*—
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Roters, Herbert C. and W. A. Black deceased, (by M. B. Black, executrix), to General Time Corp. Synchronous motor for clocks or the like. 3,131,323, 4–28–64, Cl. 310—164.
Roth, Alexander. Vehicular guidance systems. 3,149,196, 9–15–64, Cl. 88—2.2.
Roth, Arthur J., to International Minerals & Chemicals Corp. Method for the preparation of 1,1,1-trihalo-2-cyano-2-acetoxypropane. 3,134,804, 5–26–64, Cl. 260—465.4.
Roth, Barbara: *See*—
Hitchings, George H., and Roth. 3,154,551.
Roth, Curt B., to General Aniline & Film Corp. Photographic emulsions containing new sensitizing dyes. 3,133,817, 5–19–64, Cl. 96—106.
Roth, Curt B., to General Aniline & Film Corp. Printing plates comprising hydrophobic resisto formed by cross-linking photopolymerized hydrophilic monomers with an isocyanate. 3,147,116, 9–1–64, Cl. 96—35.
Roth, Donald J., to Bemis Bro. Bag Co. Flap closer. 3,146,566, 9–1–64, Cl. 53—374.
Roth, Edward J. Inside diameter gauge for recessed apertures. 3,160,004, 12–8–64, Cl. 33—178.
Roth, Ernst: *See*—
Elger, Gerd, and Roth. 3,116,724.
Roth, Ernest J., to Joe Lowe Corp. Apparatus for removing articles from wire bakery screens. 3,142,398, 7–28–64, Cl. 214—310.
Roth, Ernest J., to Joe Lowe Corp. Synchronized conveyor units and adjusting means therefor. 3,154,187, 10–27–64, Cl. 198—33.
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Roth, Peter H., to Polaroid Corp. Photographic products and processes. 3,118,766, 1–21–64, Cl. 96—114.
Roth, Philip B., and L. B. Hallows. Durable germicidal finish for hydrophobic polyamide textile materials. 3,140,227, 7–7–64, Cl. 167—38.6.
Roth, Robert G.: *See*—
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Roth, Robert G., and T. C. Singleton, to Monsanto Co. Stabilization of unsaturated nitriles during distillation by the addition of p-aminophenol and a sodium salt reducing agent. 3,146,176, 8–25–64, Cl. 202—57.
Roth, Robert I.: *See*—
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Roth, Robert I., and H. Fleisher, to International Business Machines Corp. Photoconductive combinational multiplier. 3,163,749, 12–29–64, Cl. 235—164.
Roth, Roy E., Co.: *See*—
Sieghartner, Leonard J. 3,154,020.
Roth, Saul, to Rodan Industries, Inc. Disposal container. 3,141,609, 7–21–64, Cl. 232—43.1.
Roth, Theodor, to Adam Opel Aktiengesellschaft. Method of making spring leaves. 3,153,844, 10–27–64, Cl. 29—173.
Roth, Wilfred. Gyroscopic mass flowmeter. 3,132,512, 5–12–64, Cl. 73—194.
Roth, Wilfred, and E. W. Beal, said Beal assor. to said Roth. Temperature-regulated transducer. 3,155,883, 11–3–64, Cl. 317—132.
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Rothacker, Francis N., to Sealtron Corp. Material treatment method and apparatus. 3,135,676, 6–2–64, Cl. 204—168.
Rothacker, Francis N., to Sealtron Corp. Apparatus for material treatment. 3,135,679, 6–2–64, Cl. 204—312.
Rothbart, Gerard H. Plastic curtain construction. 3,148,726, 9–15–64, Cl. 160—390.
Rothberg, Sidney. Spherical restraining device for small animals. 3,130,709, 4–28–64, Cl. 119—103.
Rothe, Adolf: *See*—
Hirschbeck, Josef, and Rothe. 3,133,875.
Rothe, Arthur, to Focke-Wulf Gesellschaft mit beschraenkter Haftung. Displaceable lifting platform for automotive vehicles. 3,150,784, 9–29–64, Cl. 214—1.
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Rotheraine, Jerome H., and H. Vartanian. Self-securing faucet washer. 3,137,476, 6–16–64, Cl. 251—357.
Rotherm Engineering Co., Inc.: *See*—
Kuhn, Henry S. 3,162,940.
Rothermel, Edward M., and R. B. Waddell, Jr., to Dayco Corp. Flexible conduit. 3,152,618, 10–13–64, Cl. 138—122.
Rothermel, Otto, to Fr. Hesser, Maschinenfabrik-Aktiengesellschaft, Firma. Apparatus for discharging quantities of pourable material. 3,152,622, 10–13–64, Cl. 141—83.
Rothfuss, John G., and W. D. Hendron, to Inland Steel Co. Apparatus for accommodating a loop. 3,130,888, 4–28–64, Cl. 226—113.
Rothfuss, Neal B., and H. Troeger, to The Bendix Corp. Flexible coupling. 3,124,942, 3–17–64, Cl. 64—13.
Rothgart, Albert, to Visionade Mfg. Co., Inc. Combination mirror and holder. 3,140,781, 7–14–64, Cl. 211—13.
Rothman, Alvin, to Phillips-Van Heusen Corp. Shirt collars. 3,121,233, 2–18–64, Cl. 2—116.
Rothman, Henry H., to United Service Equipment Co, Inc. Hot and cold food service cart. 3,160,452, 12–8–64, Cl. 312—236.
Rothschild, Richard D., to Jacobson and Co., Inc. Detachable pipe coupling assembly. 3,154,327, 10–27–64, Cl. 285—189.

Rothstein, Jerome, to Edgerton, Germeshausen & Grier, Inc. Method of increasing the response of photographic emulsions of radiation. 3,148,276, 9–8–64, Cl. 250—65.
Rothstein, Milton: *See*—
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Rothstein, Milton, to Willcox & Gibbs Sewing Machine Co. Method and apparatus for rapid cutoff of oscillations. 3,129,313, 4–14–64, Cl. 219—10.77.
Rothstein, Stanley K. Head covering. 3,157,887, 11–24–64, Cl. 2—203.
Rotier, Donald J., to Honeywell Inc. Control apparatus. 3,155,824, 11–3–64, Cl. 235—189.
Rotier, Donald J., and J. F. Storm, to Minneapolis-Honeywell Regulator Co. Automatic frequency control apparatus. 3,130,375, 4–21–64, Cl. 331—11.
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Rott, Clarence, to Western Electric Co., Inc. Stitched circuit board and method of making. 3,130,257, 4–21–64, Cl. 174—68.5.
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Roelen, Otto, and Rottig. 3,162,514.
Rottmayr, Friedrich, to Gesellschaft fur Linde's Eismaschinen Aktiengesellschaft. Process for the production of ethylene free from acetylene. 3,153,679, 10–20–64, Cl. 260—677.
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Rotunda, Orlo. Lawn sprinkling system. 3,118,606, 1–21–64, Cl. 239—63.
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Rouanet, Michel. Spinning reel with friction brake. 3,141,629, 7–21–64, Cl. 242—84.21.
Roubeau, Pierre M., and P. Chaumette, to Commissariat a l'Energie Atomique. Control cock. 3,150,679, 9–29–64, Cl. 137—375.
Roudabush, Ned W. Furnace equipped with cleaning apparatus. 3,162,151, 12–22–64, Cl. 110—99.
Roudebush, Brooks, to Adolph Kiefer & Co. Skis and bindings therefor. 3,127,623, 4–7–64, Cl. 9—310.
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Rountree, J. L. Hunter. Speed controlled cable engaging safety mechanism for elevators. 3,119,464, 1–28–64, Cl. 187—89.
Rountree, Joseph D. Training device. 3,129,709, 4–21–64, Cl. 128—360.
Rountree, Joseph D. Connector. 3,130,269, 4–21–64, Cl. 179—1.
Roup, Rolland R., H. R. Laird, and H. U. Taylor, to Glode-Union Inc. Lead titanate zirconate ceramic composition with additives. 3,117,094, 1–7–64, Cl. 252—62.9.
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Rouse, Robert L., J. Wakefield, and R. C. Newman, to Associated Electrical Industries Ltd. Production of P.N. junctions in semiconductor material. 3,128,530, 4–14–64, Cl. 29—25.3.
Rouse, Robert L., J. Wakefield, J. B. Willis, R. Bullough, and R. C. Newman, to Associated Electrical Industries Ltd. Production of P.N. junctions in semiconductor material. 3,129,119, 4–14–64, Cl. 148—1.5.
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Stanley, Richard B., and Rousseau. 3,157,974.
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Bertin, Daniel, and Nedelec. 3,132,072.
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Bertin, Daniel, Nedelec, and Locatelli. 3,120,518.
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Joly, Robert, Warnant, Jolly, Guillemette, and Goffinet. 3,129,219.
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Nominé, Gerard, and Bucourt. 3,150,127.
Nomine, Gerard, Bucourt, and Pierdet. 3,119,841.
Nomine, Gerard, Bucourt, and Pierdet. 3,132,138.
Nomine, Gerard, Bucourt, and Pierdet. 3,141,025.
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Nomine, Gerard, Bucourt, and Pierdet. 3,161,635.
Nomine, Gerard, Bucourt, and Tessier. 3,117,979.
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Rousselet, Paul F. Plug, particularly for gasoline tanks and oil pans in motor cars. 3,128,006, 4–7–64, Cl. 220—40.
Roux, Louis, to Societe d'Etudes et d'Applications Biochimiques. Process for extracting gibberellins from fermentation liquids. 3,118,908, 1–21–64, Cl. 260—343.3.
Roux, Louis, to Societe d'Etudes et d'Applications Biochimique. Purification of gibberellines. 3,118,909, 1–21–64, Cl. 260—343.3.
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Rovin, Herman, G. Goda, and K. J. Sundheimer, to Clay-Adams, Inc. Two-way valve. 3,132,665, 5–12–64, Cl. 137—512.
Rowan, Robert L. and Y., to Rowlax Laboratories Co. Aseptic catheter and introducer. 3,154,080, 10–27–64, Cl. 128—349.
Rowan, William J., to Minneapolis-Honeywell Regulator Co. Reciprocating control valve. 3,157,200, 11–17–64, Cl. 137—625.33.
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Rowan, Robert L. and Y. 3,154,080.
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Rowe, Joseph E., to United States of America, Air Force. Traveling wave tube having rectangular waveguide slow wave structure with equiangularly spaced electron guns. 3,150,283, 9–22–64, Cl. 315—3.6.
Rowe, Raymond N., to General Electric Co. Electrical bus conductor. 3,124,403, 3–10–64, Cl. 339—22.
Rowe, Robert W. Pivotally mounted auxiliary door opening device. 3,144,268, 8–11–64, Cl. 292—336.3.
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Rowekamp, Richard J. System for converting solar energy into useful energy. 3,152,442, 10–13–64, Cl. 60—26.
Rowekamp, Richard J. Pool-type solar heat and energy collector. 3,161,193, 12–15–64, Cl. 126—271.
Rowell, James H., to Phillips-Eckhardt Electronics Corp. Center pivoted armature rotary relay. 3,154,653, 10–27–64, Cl. 200—87.
Rowen, Thomas C., to United Shoe Machinery Corp. Temporary shoe laces and lasted shoes using same. 3,131,490, 5–5–64, Cl. 36—1.
Rowland, Charles M., to The Garrett Corp. Pneumatic speed sensor. 3,122,153, 2–25–64, Cl. 137—56.
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Rowland, James W., to Kelsey-Hayes Co. Curing apparatus. 3,121,039, 2–11–64, Cl. 156—381.
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Rowland, Roy C., Jr. Oral examination assistance device. 3,153,267, 10–20–64, Cl. 24—81.
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Molins, Desmond W., and Rowlands. 3,136,320.
Rowlands, Tom, to Molins Machine Co. Ltd. Apparatus for making mouthpiece cigarettes. 3,118,454, 1–21–64, Cl. 131—94.
Rowlands, Tom, to Molins Machine Co. Ltd. Manufacture of mouthpiece for cigarettes. 3,122,974, 3–3–64, Cl. 93—1.
Rowlands, Tom, to Molins Machine Co., Ltd. Production of mouthpieces for cigarettes. 3,131,612, 5–5–64, Cl. 93—1.
Rowlands, Tom, to Molins Machine Co. Ltd. Apparatus for feeding cigarette mouthpiece components. 3,143,202, 8–4–64, Cl. 198—34.
Rowlands, Tom, to Molins Machine Co. Ltd. Cutting apparatus. 3,151,513, 10–6–64, Cl. 83—346.
Rowlands, Tom, and J. A. Mason, to Molins Machine Co. Ltd. Cigarette rod cut-off device with knife adjustable about three axes. 3,140,632, 7–14–64, Cl. 83—310.
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Rowlett, Willard A. Idler arm repair kit. 3,124,394, 3–10–64, Cl. 308—2.
Rowley, Alan S. Machines for sharpening rotary cutters. 3,141,266, 7–21–64, Cl. 51—34.
Rowley, Dale W. Bathing aid. 3,143,755, 8–11–64, Cl. 15—523.
Rowley, David S.: *See*—
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Bridwell, Harold C., and Rowley. 3,128,165.
Bridwell, Harold C., and Rowley. 3,145,790.
Rowley, David S., to Jersey Production Research Co. Drill string stabilizer. 3,123,162, 3–3–64, Cl. 175—325.
Rowley, David S., to Jersey Production Research Co. Combination roller cone and spark discharge drill bit. 3,158,-207, 11–24–64, Cl. 175—16.
Rowley, David S., and H. C. Bridwell, to Jersey Production Research Co. Stabilized drill bit. 3,120,285, 2–4–64, Cl. 175—408.
Rowley, David S., and H. C. Bridwell, to Jersey Production Research Co. Erosion resistant nozzle assembly and method for forming. 3,131,779, 5–5–64, Cl. 175—393.
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Roy, Carlotta L., 50% to N. J. Herman. Game. 3,122,368, 2–25–64, Cl. 273—121.
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Roy, Henry A., Sr. Ball valves. 3,161,204, 12–15–64, Cl. 137—315.
Roy, Herman T., Jr., to The General Tire and Rubber Co. Method of polymerizing nitro alcohol esters of acrylic and methacrylic acids. 3,156,679, 11–10–64, Cl. 260—89.5.
Roy, Maurice, and P. Duban, to Office National d'Etudes et de Recherches Aeronautiques. High speed airplane having auxiliary rockets. 3,132,827, 5–12–64, Cl. 244—74.
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Gustavson, Frank R. 3,127,505.
Royen, Markus, to Apex Tire & Rubber Co. Apparatus for performing accelerated aging tests on elastomers. 3,142,-171, 7–28–64, Cl. 73—15.
Royer, Thurber W., to Aerojet-General Corp. Port opening device. 3,135,416, 6–2–64, Cl. 220—47.
Royer, Thurber W., and J. S. Brower, to Aerojet-General Corp. Ammonium nitrate explosives containing nitroalkanes. 3,133,844, 5–19–64, Cl. 149—47.
Royet, Paul F. Automatic diaphragm for photographic and kinematographic cameras. 3,132,601, 5–12–64, Cl. 95—10.
Royle, Joseph K., to National Research Development Corp. Bearings. 3,126,233, 3–24–64, Cl. 308—122.
Royster, William E., to Morehead Mills. Apparatus for making yarns from picker laps. 3,130,535, 4–28–64, Cl. 57—34.
Royston, Marvin F., to Bell & Howell Co. Motion picture projector having a single frame clutch. 3,145,614, 8–25–64, Cl. 88—17.
Royston, Marvin F., to Bell & Howell Co. Capacitor nut. 3,151,383, 10–6–64, Cl. 29—25.42.
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Rozell, Charles J. Belt gripping pulley construction. 3,144,-781, 8–18–64, Cl. 74—230.24.
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Anderson, Lyle V., and Rozenbergs. 3,116,891.
Rozenbergs, Robert: *See*—
Anderson, Lyle V., and Rozenbergs. 3,116,891.
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Rozmus, Walter J., to Kelsey-Hayes Co. Wire stripper. 3,125,908, 3–24–64, Cl. 81—9.5.
Rozmus, Walter J., to Hamilton Research Associates, Inc. Magazine for teaching machine. 3,134,177, 5–26–64, Cl. 35—8.
Rozmus, Walter J., to Corning Glass Works. Hinge. 3,140,-507, 7–14–64, Cl. 16—128.
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Gerber, William C. 3,125,212.
Stewart, Walter E. 3,132,871.
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Rubell, Jean. Installation for an extensible supporting pole. 3,150,740, 9–29–64, Cl. 182—41.
Ruben, Paul L.: *See*—
Rickless, Nathan, and Ruben. 3,133,983.
Ruben, Paul L., to Bausch & Lomb Inc. Microscope objective. 3,118,963, 1–21–64, Cl. 88—57.

Ruben, Paul L., to Bausch & Lomb Inc. Optical system for microscope objective. 3,138,651, 6–23–64, Cl. 88—57.
Ruben, Samuel. Sealed electrolytic capacitor. 3,124,728, 3–10–64, Cl. 317—230.
Ruben, Samuel. Sealed semiconductor device and mounting means therefor. 3,152,293, 10–6–64, Cl. 317—234.
Ruben, Samuel. Rechargeable cell and electrode therefor. 3,161,545, 12–15–64, Cl. 136—20.
Rubens, Arnold. Disappearing Santa in chimney. 3,159,935, 12–8–64, Cl. 40—106.31.
Rubens, George J. Resilient safety sleeve for electrical prongs. 3,147,055, 9–1–64, Cl. 339—36.
Rubens, Harry S., to Engelhard Hanovia, Inc. Explosion-proof lamp. 3,137,804, 6–16–64, Cl. 313—312.
Rubens, Harry S., and E. J. Kelly, to Engelhard Hanovia, Inc. Borescope. 3,155,761, 11–3–64, Cl. 88—14.
Rubens, Louis C., to The Dow Chemical Co. Core compositions and core. 3,121,268, 2–18–64, Cl. 22—194.
Rubens, Louis C., to The Dow Chemical Co. Fluid vinyl chloride polymer compositions, and rigid cross-linked vinyl chloride polymeric products having reinforcing fibrous material embedded therein, and method of making the same. 3,133,825, 5–19–64, Cl. 117—62.
Rubens, Sidney M., A. V. Pohm, and C. D. Olson, to Sperry Rand Corp. Methods for making laminated structures. 3,155,561, 11–3–64, Cl. 156—278.
Rubenstein, Albert M. Missile locator system. 3,121,222, 2–11–64, Cl. 343—5.
Rubenstein, David. Structural element and method of making. 3,145,502, 8–25–64, Cl. 50—128.
Rubenstein, David. Abuse resistant articles of manufacture and method of making. 3,150,032, 9–22–64, Cl. 161—161.
Rubenstein, Irving, to Weissglass Gold Seal Dairy Corp. Dry milk powder mixture and method and apparatus for making the same. 3,159,492, 12–1–64, Cl. 99—203.
Rubenstein, Julia. Sewing aid. 3,154,861, 11–3–64, Cl. 33—190.
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Brown, Frank R., Grabel, and Rubenstein. 3,118,396.
Brown, Frank R., Grabel, and Rubenstein. 3,118,397.
Rubera, Anthony J. Window ventilator. 3,124,055, 3–10–64. Cl. 98—99.5.
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Garnier, Henri L., Rubet, and Marchal. 3,138,318.
Rubin, Arthur I., J. P. Landauer, and W. Brunner, to Electronic Associates, Inc. Electronic switch having feedback compensating for switch nonlinearities. 3,130, 325, 4–21–64, Cl. 307—88.5.
Rubin, Daniel, to Xerox Corp. Xerographic apparatus. 3,128,683, 4–14–64, Cl. 95—1.7.
Rubin, James M. Orthodontic arch wire. 3,123,913, 3–10–64, Cl. 32—14.
Rubin, Julius. Electric resistance thread-trimming device. 3,142,279, 7–28–64, Cl. 112—252.
Rubin, Julius, to Tek-Matic Corp. Electrical thread-trimming device. 3,159,124, 12–1–64, Cl. 112—252.
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Rubin, Saul H., and J. J. Vance, to Hoffmann-La Roche Inc. Composition for relieving pain. 3,128,226, 4–7–64, Cl. 167—55.
Rubin, Saul H., and J. J. Vance, to Hoffmann-La Roche Inc. Composition containing mono-hydroxy aluminum-di-acetyl salicylate, caffeine, 3,3-diethyl-5-methyl-2,4-piperidinedione and 1-(4-chlorophenethyl)-2-methyl-6,7-dimethoxy-1,2,3,4-tetrahydroisoquinoline. 3,138,530, 6–23–64, Cl. 167—55.
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Kamen, Susan K., and Rubin. 3,162,851.
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Langdon, William K., and Rubinstein. 3,159,633.
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Rubinstein, Kurt, to Aktieselskabet Pharmacia. O-benzylphenoxy-B-N-piperidinopropanes as antitussive compositions. 3,117,059, 1–7–64, Cl. 167—55.
Rubinstein, Leon: *See*—
Mason, Paul B., Rubinstein, and Sable. 3,143,941.
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Hamilton, Ralph H., Sr., and Rubinstein. 3,126,178.
Rubinstein, Martin A., and K. E. Werner, to Thiokol Chemical Corp. Flow control device. 3,125,851, 3–24–64, Cl. 60—26.1.
Rubinstein, Solomon, to General Cable Corp. Tap-proof security communications cable. 3,160,871, 12–8–64, Cl. 340—285.
Rubio, Alfred M., and I. I. Komatsu, to Beltrone Electronics Corp. Combination switch and battery holder. 3,138,491, 6–23–64, Cl. 136—173.
Rubio, German: *See*—
Rubio, Santiago and G. 3,139,987.
Rubio, Santiago and G. Knockdown structure and component frame therefor. 3,139,987, 7–7–64, Cl. 211—182.
Rubio-Medina, Oscar, to Allis-Chalmers Mfg. Co. High speed commutator. 3,141,984, 7–21–64, Cl. 310—236.
Rubisch, Ottmar: *See*—
Fitzer, Erich, and Rubisch. 3,120,453.
Rubissow, George A. Free piston fountain pen. 3,147,741, 9–8–64, Cl. 120—47.
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Ruble, Theodore A., and R. D. Weekley, to Continental Carbon Co. Carbon black collecting process. 3,146,080, 8–25–64, Cl. 55—96.
Rubner, Karl, to Fa-Ge-Rubner. Frame for a roller of a conveyor. 3,118,529, 1–21–64, Cl. 193—37.
Rübsam, Hans J., to Rheinmetall G.m.b.H., Firma. Apparatus for feeding an ammunition belt to a rapid-fire cannon. 3,143,038, 8–4–64, Cl. 89—33.
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Ruch, Georges A. Indicator setting means for timepiece showing the time in two time-belts. 3,129,558, 4–21–64, Cl. 58—85.5.
Ruchser, Erich, to E. Herion. Valve control system. 3,139,109, 6–30–64, Cl. 137—596.16.
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Rucker, John T., and T. H. Dexter, to Hooker Chemical Corp. Process for preparing and recovering of substantially anhydrous hydrogen fluoride gas from a dry alkali metal bifluoride. 3,140,152 7–7–64. Cl. 23—153.
Rucker, Leonard S. Changeable target disk game. 3,156,467, 11–10–64, Cl. 273—126.
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Rudatis, Domenico A. Methods and devices for producing polychromatic images from monochromatic signals. 3,122,670, 2–25–64, Cl. 313—89.
Rudd, David W., to E. I. du Pont de Nemours and Co. Thread break detector device. 3,120,587, 2–4–64, Cl. 200—61.18.
Rudd, Dennis A.: *See*—
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Rudd, Dennis A., to North American Philips Co., Inc. Beam-indexing picture display system. 3,163,713, 12–29–64, Cl. 178—5.4.
Rudd, Joseph H. Selectively controlled feeder. 3,131,673, 5–5–64, Cl. 119—56.
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Rudderow, Truman, to North American Aviation, Inc. Missile attitude positioner. 3,156,108, 11–10–64, Cl. 73—1.
Ruddock, Kenneth A., R. R. Ilsen, and A. L. Laich, to Varian Associates. Airborne electromagnetic prospecting apparatus having a lightweight truss structure to support transmitter and receiver coils. 3,123,766, 3–3–64, Cl. 324—4.
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Rudel, Harry W., and W. Seitz, to Esso Research and Engineering Co. Polyhydric alcohol esters of alkyl mercapto fatty acids and oil compositions containing said esters. 3,158,576, 11–24–64, Cl. 252—48.6.
Rudelick, John, to Bruner Corp. Rotatable spindle pilot valve. 3,134,403, 5–26–64, Cl. 137—625.16.
Rudenberg, Hermann G., and B. Dale, to Transitron Electronic Corp. Radiant energy transducer. 3,150,999, 9–29–64, Cl. 136—89.
Ruderian, Max J. Practice golf ball support. 3,136,419, 6–9–64, Cl. 206—79.
Ruderian, Max J. Belt attached support for a top. 3,136,460, 6–9–64, Cl. 224—5.
Ruderian, Max J. Top support used in combination with a book as a chance device. 3,136,549, 6–9–64, Cl. 273—141.
Ruderian, Max J. Combined carrier and stand for a rotatable chance device. 3,136,550, 6–9–64, Cl. 273—142.
Ruderian, Max J. Accessory device for supporting two rotatable type toys. 3,136,551, 6–9–64, Cl. 273—142.
Ruderian, Max J. Educational toy device comprising a rotatable disc and a coacting combined support and pointer structure. 3,136,552, 6–9–64, Cl. 273—142.
Ruderian, Max J. Accessory for a top. 3,142,933, 8–4–64, Cl. 46—65.
Ruderian, Max J. Food carrier. 3,143,205, 8–4–64, Cl. 206—4.
Ruderian, Max J. Carrier for practice golf balls. 3,143,265, 8–4–64, Cl. 224—46.
Ruderian, Max J. Game top with transparent hemispherical spinning bearing containing a movable game element. 3,143,347, 8–4–64, Cl. 273—147.
Ruderian, Max J. Manually driven rotatable disc device and stand combination. 3,145,994, 8–25–64, Cl. 273—142.
Ruderian, Max J. Holder for amusement device. 3,146,925, 9–1–64, Cl. 224—5.

Ruderian, Max J. Ball paddle with supporting and ball-storing handle. 3,148,883, 9–15–64, Cl. 273—97.
Ruderian, Max J. Spinning game device formed from flat sheet. 3,155,392, 11–3–64, Cl. 273—142.
Ruderian, Max J. Power toy incorporating a rotatable disc means for providing amusement. 3,163,426, 12–29–64, Cl. 273—142.
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Rudes, Bernard. Display container. 3,131,809, 5–5–64, Cl. 206—45.34.
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Cheely, Burl L. 3,153,388.
Rudkin, George O., Jr., J. E. Wilson, and M. A. Dunn, to Atlas Chemical Industries, Inc. Polyurethane coating compositions. 3,159,604, 12–1–64, Cl. 260—75.
Rudland, Ronald, to Foster-Mallard Ltd. Sound reproducing machines. 3,129,596, 4–21–64, Cl. 74—190.
Rudner, Bernard, and R. A. Bafford, to Koppers Co., Inc. Optically active Grignard-type compounds and their preparation. 3,139,442, 6–30–64, Cl. 260—345.5.
Rudner, Bernard, and A. G. Prapas, to W. R. Grace & Co. Phenothiazine derivatives. 3,147,255, 9–1–64, Cl. 260—243.
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Rudnick, George A. Liquid blending appliance. 3,136,532, 6–9–64, Cl. 259—72.
Rudnick, Jack, to J. and B. Rudnick. Folding door hold means. 3,116,782, 1–7–64, Cl. 160—229.
Rudnick, Jack. Door pivot means. 3,137,891, 6–23–64, Cl. 16—151.
Rudo, Frank S. Precision coating devices. 3,147,142, 9–1–64, Cl. 118—301.
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Rudolph, Hans, to Siemens & Halske Aktiengesellschaft. Synchronizing telegraph transmitters and receivers. 3,124,647, 3–10–64, Cl. 178—31.
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Rudolph, Rome R., C. Strutz, Sr., C. J. Strutz, Jr., and F. C. Strutz, to Carl Strutz & Co., Inc. Surface decorating machine. 3,127,833, 4–7–64, Cl. 101—126.
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Rudy, William T., N. W. Williams, and A. L. Potts, to Albert Products, Inc. Level controlled pumping systems and switch assemblies therefor. 3,132,592, 5–12–64, Cl. 103—25.
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Ruegg, Hans, R. Keller, and A. Klopfer, to Allpatent Aktiengellschaft. Flexible coupling member. Re. 25,543, 3–31–64, Cl. 64—15.
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Ruehle, Robert A. Mounting device for semiconductors. 3,146,384, 8–25–64, Cl. 317—234.
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Ruelle, Louis, and M. Noble, to Pechiney, Compagnie de Produits Chimiques et Electrometallurgiques. Preparation of carbon and metal oxide materials. 3,123,567, 3–3–64, Cl. 252—188.
Ruelle, Louis, and J. Clair, to Pechiney Compagni de Produits Chimiques et Electrometallurgiques. Process for the preparation of aluminum oxide and carbon based briquettes. 3,135,696, 6–2–64, Cl. 252—182.
Rueppel, Fred R., to Panter-Arcadia Tool & Die Co. Detachable spring clip label holder for books. 3,133,367, 5–19–64, Cl. 40—11.
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Ruetschi, Paul, to The Electric Storage Battery Co. Method and apparatus for the purification of water. 3,135,674. 6–2–64, Cl. 204—151.
Ruetschi, Paul, to The Electric Storage Battery Co. Alkaline storage battery and electrolyte. 3,160,526, 12–8–64, Cl. 136—6.
Ruetz, Karl. Container including a neck with a pouring opening and closing device for the same. 3,136,458, 6–9–64, Cl. 222—498.
Ruf, Ernst H., and E. N. Smith, to General Motors Corp. Method of making a bearing. 3,142,559, 7–28–64, Cl. 75—208.
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Ruff, Wolfram, to Alfred Teves Maschinen- und Armaturenfabrik KG. Process for the manufacture of cast iron having a eutectic graphite formation. 3,133,813, 5–19–64, Cl. 75—53.
Ruffer, James F., to Norton Co. Strip joining system for pressure sensitive adhesive tape. 3,135,642, 6–2–64, Cl. 161—36.
Ruffing, Lawrence E., to Askania Regulator Co. Heat exchanger temperature control system. 3,137,341, 6–16–64, Cl. 165—32.
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Ruge, Arthur C., to Baldwin-Lima-Hamilton Corp. Electrical pressure transducer. 3,139,598, 6–30–64, Cl. 338—4.
Rugeley, Robert S., and K. C. Woolley, to Jersey Production Research Co. Apparatus for completion and working over of wells. 3,116,781, 1–7–64, Cl. 153—54.
Ruger, William B., to Sturm, Ruger and Co., Inc. Cartridge lifter mechanism for semi-automatic gun. 3,142,921, 8–4–64, Cl. 42—17.
Ruger, William B., to Sturm, Ruger and Co., Inc. Repeating firearm. 3,142,922, 8–4–64, Cl. 42—17.
Ruger, William B., and H. H. Sefried, II, to Sturm, Ruger and Co., Inc. Repeating gun with cartridge lifter and cartridge stop member. 3,125,821, 3–24–64, Cl. 42—17.
Ruger, William B., and H. H. Sefried, to Sturm, Ruger and Co. Inc. Single-shot gun with laterally swinging breechblock. 3,142,924, 8–4–64, Cl. 42—32.
Ruhge, Justin M., to United States of America, Navy. Solar cell look-angle detecting system. 3,161,375, 12–15–64, Cl. 244—14.
Ruhl, Charles A. L., to The New York Air Brake Co. Directional control valve with flow control and check valve unit. 3,155,114, 11–3–64. Cl. 137—596.2.
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Ruhoff, John R., and C. O. Gerfen, to Mallinckrodt Chemical Works. Ammonium oxyfluotantalate and its method of preparation. 3,126,252, 3–24–64, Cl. 23—51.
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Rule, Ray V. Line control for spinning reels. 3,116,894, 1–7–64, Cl. 242—84.2.
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Rulon-Miller, Robert, and W. H. Tabor, to Dixie Machine & Tool Co. Means for weighting the rolls of a drafting apparatus or the like. 3,126,587, 3–31–64, Cl. 19—274.
Rulon-Miller, Robert, and W. H. Tabor, to Dixie Machine & Tool Co. Means for controlling the fibers in a strand of a textile drafting apparatus. 3,145,431, 8–25–64, Cl. 19—247.
Rulon-Miller, Robert, and W. H. Tabor, to Dixie Machine & Tool Co. Strand handling apparatus. 3,150,418, 9–29–64, Cl. 19—262.
Rulon, Richard M., W. H. Morgan, Jr., and J. M. Harris, to Sylvania Electric Products Inc. Electroluminescent devices with improved electrical contacts. 3,153,167, 10–13–64, Cl. 313—108.
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Rumbel, Keith E., R. G. Nugent, A. C. Scurlock, and M. Cohen, to Atlantic Research Corp. Propellant grains. 3,116,692, 1–7–64, Cl. 102—98.
Rumbel, Keith E., M. Cohen, R. G. Nugent, and A. C. Scurlock, to Atlantic Research Corp. Propellent grains. 3,140,663, 7–14–64, Cl. 102—98.
Rumberger, George G., to KVP Sutherland Paper Co. Treatment of carton scores. 3,158,073, 11–24–64, Cl. 93—36.
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Rummel, Theodor, to Siemens & Halske Aktiengesellschaft. Method of producing a semiconductor device. 3,145,447, 8–25–64, Cl. 29—25.3.
Rummel, Theodor, M. Heim, W. Schauer, and F. Pfeifer, to Siemens & Halske Aktiengesellschaft. Apparatus for floating-zone melting. 3,160,478, 12–8–64, Cl. 23—273.
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Rummery, Frank O., J. D. Richards, and R. Roseman, to The Glidden Co. Cyclic process for producing titanium dioxide pigment. 3,120,999, 2–11–64 ,Cl. 23—202.
Rumpf, Paul, and G. Thuillier, to Centre Nationale de la Recherche Scientifiques. Beta-dimethylaminoethyl ester of parachlorophenoxy acetic acid and its pharmaceutically acceptable acid addition salts. 3,131,195, 4–28–64, Cl. 260—295.5.
Rumpf, Robert J., to Ford Motor Co. Automatic brake adjuster. 3,150,746, 9–29–64, Cl. 188—79.5.
Rumsey, Herbert, Jr., to Tobin Packing Co., Inc. Locking band for sausage products. 3,152,745, 10–13–64, Cl. 229—87.
Rumsey, Joseph F., Jr. Water ski. 3,121,890, 2–25–64, Cl. 9—310.
Rumsey, Joseph F., Jr., and F. Trimble. Process of treating trees. 3,129,529, 4–21–64, Cl. 47—2.
Rumsey, Rollin D., to Houdaille Industries, Inc. Viscous torsional vibration damper. 3,121,347, 2–18–64, Cl. 74—574.
Rumsey, Rollin D., to Houdaille Industries, Inc. Friction snubber with two-way bump stop. 3,140,080, 7–7–64, Cl. 267—1.
Rumsey, Rollin D., to Houdaille Industries, Inc. Rotary actuator. 3,155,013, 11–3–64, Cl. 91—409.
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Rundle, George W. Weed puller. 3,138,365, 6–23–64, Cl. 254—132.
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Runge, Wallace F., to Commercial Solvents Corp. Process for the production of cyclohexanone oxime. 3,160,663, 12–8–64, Cl. 260—566.
Runkle, George L. V., and G. S. Sheets, to Superior Coach Corp. School bus safety gate. 3,153,398, 10–20–64, Cl. 116—28.
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Runnels, Robert J., to Dexter Industries, Inc. Door closer clip. 3,162,889, 12–29–64, Cl. 16—66.
Running, Peter R., and C. W. Buddo. Torsion bar seat suspension. 3,163,409, 12–29–64, Cl. 267—1.
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Jones, Preston A. 3,117,730.
Jones, Preston A. 3,137,763.
Jones, Preston A. 3,142,445.
Runtz, Jean W., to D. T. Siegel. Electrolytic capacitor unit. 3,141,118, 7–14–64, Cl. 317—230.
Runtz, Jean W., and K. E. Johnson, to Ohmit Mfg. Co. Capacitor unit and electrode therefor. 3,146,383, 8–25–64, Cl. 317—230.
Runyan, Edgar A., to Inland Steel Products Co. Structural supports for mounting sheet metal panels. 3,141,532, 7–21–64, Cl. 189—37.
Runyan, Walter R.: *See*—
Bylander, Ernest G., and Runyan. 3,138,495.
Ruozi, Aldo. Stalk and root lifting and shredding device. 3,160,214, 12–8–64, Cl. 171—58.
Rupar, Victor P. Furniture leg support. 3,138,893, 6–30–64, Cl. 45—137.
Rupard, John N. Plural track tape recorder. 3,140,359, 7–7–64, Cl. 179—100.2.
Rupinski, Waldemar: *See*—
Norris, William C., Rupinski, and Svendsen. 3,128,736.
Ruple, Lewis H.: *See*—
Perry, Richard E., and Ruple. 3,132,233.
Ruple, Lewis H., to Abbey Etna Machine Co. Spring tensioned collet chuck for swaging machines. 3,143,189, 8–4–64, Cl. 185—40.
Ruple, Lewis H., to Abbey Etna Machine Co. Cluster roll assembly for tube mills. 3,159,199, 12–1–64, Cl. 153—54.
Rupnow, Carl F. Slot cutting machine for continuously advancing strip material. 3,142,216, 7–28–64, Cl. 83—308.
Rupp, Richard L. Combination pulpit and register desk. 3,123,414, 3–3–64, Cl. 312—33.
Rupp, Virgil R.: *See*—
Rarick, Maurice S., Jarvis, and Rupp. 3,132,031.
Triller, Ralph E., and Rupp. 3,117,876.
Ruppel, Alfred E.: *See*—
Mann, Henry, and Ruppel. 3,160,740.
Ruppel, Wilhelm: *See*—
Braun, Willy, Ruppel, and Mecke. 3,147,263.
Ruppelt, Francis A., and F. F. Haddad. Billboard frame. 3,160,973, 12–15–64, Cl. 40—125.
Ruppenicker, George F., Jr.: *See*—
Brown, John J., and Ruppenicker. 3,127,732.
Rupprecht, Georg, to Raytheon Co. Pyrographite polarizer. 3,127,513, 3–31–64, Cl. 250—86.
Ruprecht, Joseph D.: *See*—
Hirshfield, Edward, and Ruprecht. 3,117,193.
Ruschig, Heinrich, K. Schmitt, L. Ther, and W. Pfaff, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Brüning. Certain 1,4-diaryl-3,5-dioxo-1,2,4-triazolidines. 3,133,933, 5–19–64, Cl. 260—308.
Ruschig, Heinrich, and E. Jürgens, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Butadiene carboxylic acids. 3,143,553, 8–4–64, Cl. 260—332.2.
Ruschig, Heinrich, and G. Seidl, to Farbwerke Hoechst Aktiengesellschaft Vormals Meister Lucius & Bruning. Vitamin-A-acid azide and process for preparing it. 3,151,131, 9–29–64, Cl. 260—349.
Ruschmann, Henry F. Operating upon sheets of foil. 3,156,283, 11–10–64, Cl. 153—2.
Rush, Derek A.: *See*—
James, Frederick D., and Rush. 3,159,738.
Rush, John W., to Westinghouse Air Brake Co. Fluid pressure brake apparatus with periodic acknowledgment type safety control. 3,136,586, 6–9–64, Cl. 303—19.
Rush, Richard B.: *See*—
Hart, James P., Klein, Morgan, and Rush. 3,140,469.
Rush, Thomas L., to United States of America, Navy. Pin contact for printed circuit boards. 3,158,418, 11–24–64, Cl. 339—17.
Rushmer, Ralph H., to The Carborundum Co. Bonded abrasive article. 3,126,262, 3–24–64, Cl. 51—298.
Rushton, Frederick N.: *See*—
Ellard, Jack, Tarrant, and Rushton. 3,145,810.
Rusk, Gerald R., and F. M. Hagquist, to The Freeman Supply Co. Spindle assembly. 3,144,736, 8–18–64, Cl. 51—168.
Ruskin, Dan B.: *See*—
Ruskin, Simon L. 3,127,316.
Ruskin Development & Mfg. Corp.: *See*—
Ruskin, Henry. 3,157,417.
Ruskin, Henry, to Swingline, Inc. Cutter carrier for pencil sharpener and method of assembly of cutters. 3,125,994, 3–24–64, Cl. 120—96.
Ruskin, Henry, to Ruskin Development & Mfg. Corp. Expansion pins. 3,157,417, 11–17–64, Cl. 287—127.
Ruskin, Henry, and E. S. Viola, to Swingline Inc. Cap. 3,156,058, 11–10–64, Cl. 40—331.
Ruskin, Simon L.: *See*—
Korn, Arthur, Hess, and Ruskin. 3,126,541.

Ruskin, Simon L., deceased, by C. Farhi, D. B. Ruskin and M. Reder, executors, to Union Carbide Corp. Cardiac auricular therapy with quinidine adenylate, quinidine adenosine diphosphate or quinidine adenosine triphosphate. 3,127,316, 3–31–64, Cl. 167—65.

Russ, George A.: *See*—
Nathan, Bernard, and Russ. 3,152,948.

Russ, John A., to Westinghouse Air Brake Co. Shock resistant electrical relays. 3,146,382, 8–25–64, Cl. 317—197.

Russ, John C., to General Electric Co. Electrical reactance balancing apparatus. 3,143,699, 8–4–64, Cl. 323—48.

Russell, Alfred G., to Frank W. Egan & Co. High velocity dryer tube. 3,134,654, 5–26–64, Cl. 34—160.

Russell, Anne S. Magnetic fastener. 3,161,932, 12–22–64, Cl. 24—203.

Russell, Arthur G., and F. A. Clary, Jr., to American Can Co. Materials handling mechanism for unscrambling and sorting of tubular articles. 3,157,310, 11–17–64, Cl. 221—10.

Russell, Arthur G., Co., Inc., The: *See*—
Dion, Warren E., and Willis. 3,122,690.

Russell, Arvin E., to J. A. Kesler. Vehicle towing device. 3,152,704, 10–13–64, Cl. 214—86.

Russell, Billy J., to North American Aviation, Inc. Overtravel mechanism. 3,140,618, 7–14–64, Cl. 74—10.2.

Russell, Burton W., to Pontiac Specialties Mfg. & Dist. Corp. Ice spud. 3,158,215, 11–24–64, Cl. 175—398.

Russell, Charles D.: *See*—
Binder, George G., Jr., and Russell. 3,149,669.

Russell, Charles R.: *See*—
Gugliemelli, Lewis A., Mayer, and Russell. 3,132,181.

Russell, Charles R., R. A. Buchanan, and C. E. Rist, to United States of America, Agriculture. Cellulosic pulps comprising crosslinked xanthate cereal pulps and products made therewith. 3,160,552, 12–8–64, Cl. 162—146.

Russell, David L.: *See*—
Wiles, Charles R., and Russell. 3,159,694.
Wiles, Charles R., and Russell. 3,161,912.

Russell, Don M.: *See*—
Goold, Stanley E. 3,128,344.

Russell, Drake P., to Lace Loc Co., Inc. Protective devices for knots of shoe laces. 3,132,394, 5–12–64, Cl. 24—119.

Russell, Duane J., to United States of America, Navy. Transistor bipolar integrator. 3,119,029, 1–21–64, Cl. 307—88.5.

Russell, Edward J., W. J. Carroll, Jr., and M. E. Kush, to Trojan Powder Co. Pelleting explosive solids. 3,120,026, 2–4–64, Cl. 18—2.6.

Russell, F. L., Corp.: *See*—
Cline, Robert C. 3,125,356.

Russell, Fred J. Threaded member with deflecting band antiloosening device. 3,116,775, 1–7–64, Cl. 151—255.

Russell, Fred J. Locking retractor slide. 3,127,208, 3–31–64, Cl. 292—336.3.

Russell, Fred J. Split spindle cap. 3,149,485, 9–22–64, Cl. 70—224.

Russell, Fred J., and G. B. Solovieff; said Solovieff assor. to said Russell. Low friction padlock mechanism. 3,117,437, 1–14–64, Cl. 70—38.

Russell, Fred J., and G. B. Solovieff; said Solovieff assor. to said Russell. Push-turn button retaining means in shank end. 3,117,813, 1–14–64, Cl. 292—359.

Russell, Fred J., and G. B. Solovieff; said Solovieff assor. to said Russell. Sliding key-actuated mechanism connector. 3,123,995, 3–10–64, Cl. 70—146.

Russell, Fred J., and G. B. Solovieff, said Solovieff assor. to said Russell. Low-friction frame for locking devices. 3,126,217, 3–24–64, Cl. 292—1.

Russell, Fred J., and G. B. Solovieff; said Solovieff assor. to said Russell. Strip anti-loosening device. 3,139,134, 6–30–64, Cl. 151—25.

Russell, Fred J., and G. B. Solovieff; said Solovieff assor. to said Russell. Collapsing cylinder bottom pin. 3,149,486, 9–22–64, Cl. 70—384.

Russell, Fred J., J. D. Witt, and R. J. Nolin; said J. D. Witt and R. J. Nolin assors. to F. J. Russell. Hand hold face opening and spindle device for insertion or removal of button-operated mechanism 3,149,871, 9–22–64, Cl. 292—352.

Russell, Frederick B., to Avco Corp. Wall structure for an MHD generator. 3,161,788, 12–15–64, Cl. 310—11.

Russell, Frederick J., to Eastman Kodak Co. Photographic element having increased speed and contrast. 3,140,179, 7–7–64, Cl. 96—68.

Russell, Gordon B.: *See*—
Coates, Arthur, Russell, and Birchenhough. 3,146,977.

Russell, Gordon C., Lockheed Aircraft Corp. Jamb and door construction. 3,141,205, 7–21–64, Cl. 20—11.

Russell, Gordon C., to Lockheed Aircraft Corp. Trap and drain manifold. 3,141,472, 7–21–64, Cl. 137—216.1.

Russell, Harold D., and C. J. Kunz, to Eastman Kodak Co. Dryer for a film processing machine. 3,147,090, 9–1–64, Cl. 34—160.

Russell, Howard G.: *See*—
Erickson, Henry, and Russell. 3,147,209.

Russell, Howard G., and W. B. Watson, to Sinclair Research, Inc. Method of cracking hydrocarbons and reactivating the metallic contaminated catalyst. 3,150,075, 9–22–64, Cl. 208—120.

Russell, Jack A.: *See*—
Spivak, Alvin L., and Russell. 3,122,062.

Russell, James, to FMC Corp. Wet spinning of acetic acid solutions of cellulose acetate. 3,133,979, 5–19–64, Cl. 264—200.

Russell, James A., and B. E. McClanahan, to Ace Tank and Heater Co. Water heater. 3,118,430, 1–21–64, Cl. 122—250.

Russell, James D., and E. C. Muehlfelt, to American Scientific Laboratories, Inc. Vaccine for aleutian disease (hypergammaglobueinemia) in mink. 3,157,576, 11–17–64, Cl. 167—78.

Russell, James D., E. C. Muehlfelt, O. H. Grosse, and A. J. Ott, to American Scientific Laboratories, Inc. Antiserum and plasma for aleutian disease (hypergammaglouebinemia) in mink. 3,157,577, 11–17–64, Cl. 167—78.

Russell, James T.: *See*—
Libby, Hugo L., and Russell. 3,160,817.

Russell, James T., to United States of America, Atomic Energy Commission. Neutron flux intensity detection. 3,130,307, 4–21–64, Cl. 250—83.1.

Russell, James W., to Stair King, Inc. Stair-climbing power-driven tracked truck. 3,149,688, 9–22–64, Cl. 180—9.22.

Russell, Jerome Y. Combined shipping and merchandising package. 3,139,979, 7–7–64, Cl. 206—45.12.

Russell, John D., to Microdot Inc. Method for producing strain gages. 3,141,232, 7–21–64, Cl. 29—155.5.

Russell, John W. Photographic enlarger system. 3,143,921, 8–11–64, Cl. 88—24.

Russell, Joseph L.: *See*—
Feder, Jack B., and Russell. 3,140,243.
Gans, Manfred, and Russell. 3,140,300.
Okenberg, Harry, Russell, and Becker. 3,141,037.

Russell, Leonard B.: *See*—
Dolphin, John R. V., and Russell. 3,143,081.

Russell, Lewis E., to United Kingdom Atomic Energy Authority. Plutonium compounds. 3,132,924, 5–12–64. Cl. 23—14.5.

Russell, Lindsay, to A. Alford. Rotary distributor, having time-delay line in rotor for simultaneously distributing input, at different delays, to spaced stator points. 3,145,352, 8–18–64, Cl. 333—7.

Russell, Linus E., to Peters & Russell, Inc. Pump. 3,149,576, 9–22–64, Cl. 103—152.

Russell, Lionel E., and D. F. McNabb. Leaf pulverizer for rotary mowers. 3,157,015, 11–17–64, Cl. 56—25.4.

Russell, Lorenzo C., and E. M. Dowling. Portable nut tree shaker. 3,132,458, 5–12–64, Cl. 56—328.

Russell, Louis A., to International Business Machines Corp. Protection of transistor circuits against predictable overloading. 3,134,023, 5–19–64, Cl. 307—88.

Russell Mfg. Co., The: *See*—
Williams, Robert B. 3,156,128.

Russell, Marvin E., to Dairy Equipment Co. Vacuum milk cooler. 3,120,110. 2–4–64, Cl. 62—185.

Russell, Mell. Sanitary receptacle. 3,141,441, 7–21–64, Cl. 119—1.

Russell, Norton A., and R. T. Gifford, to Vernay Laboratories, Inc. Check-relief valve. 3,159,176, 12–1–64, Cl. 137—493.1.

Russell, Robert B. Thermotransfer copy process wherein a heat sink is positioned within the composite. 3,121,791, 2–18–64, Cl. 250—65.

Russell, Robert B. Thermographic transfer sheet comprising selective radiation filtering means. 3,131,080, 4–28–64, Cl. 117—36.3.

Russell, Robert B. Electrode holder for electric furnace electrodes and method of repairing same. 3,151,202, 9–29–64, Cl. 13—15.

Russell, Robert B. Copying apparatus and method. 3,162,762, 12–22–64, Cl. 250—65.

Russell, Robert C., to MacTaggart, Scott & Co. Ltd. Multicylinder hydraulic motors. 3,122,971, 3–3–64, Cl. 91—205.

Russell, Robert G., to Owens-Corning Fiberglas Corp. Porous fibrous sheet material. 3,120,463, 2–4–64, Cl. 161—153.

Russell, Robert G., to Owens-Corning Fiberglas Corp. Method and apparatus for forming a woven textile by high speed projection of the weft threads. 3,130,755, 4–28–64, Cl. 139—18.

Russell, Robert G., to Owens-Corning Fiberglas Corp. Apparatus for feeding a continuous untwisted multifilament strand. 3,139,226, 6–30–64, Cl. 226—190.

Russell, Robert G., to Owens-Corning Fiberglas Corp. Method and apparatus for production of glass fibers. 3,150,946, 9–29–64, Cl. 65—2.

Russell, Robert G., and H. L. F. Bond. Rolling mills. 3,160,037, 12–8–64, Cl. 80—31.1.

Russell, Roger B., Jr.: *See*—
Chisholm, John P., Bates, and Russell. 3,161,869.

Russell, Seymour R.: *See*—
Kamins, Jack M., and Russell. 3,156,608.

Russell, Theron W., to Weyerhaeuser Co. Process for sealing cartons. 3,140,215, 7–7–64, Cl. 156—309.

Russell, Thomas W. Torsion balance. 3,154,161, 10–27–64, Cl. 177—196.

Russell, Thomas W. Load-responsive system for measuring instruments. 3,151,481, 10–6–64, Cl. 73—141.

Russell, Warren O. Outdoor cooking apparatus. 3,121,424, 2–18–64, Cl. 126—25.

Russell, Warren O. Cooking apparatus. 3,152,586, 10–13–64, Cl. 126—9.

Russell, William H., to Southern States Inc. Filament fuse tube. 3,120,594, 2–4–64, Cl. 200—132.

Russell, William J.: *See*—
Carlick, Daniel J., and Russell. 3,156,572.

Russell, William J., to Robertshaw Controls Co. Thermostatic control for range burners. 3,146,945, 9–1–64, Cl. 236—1.
Russer's, Inc.: *See*—
Sold, Robert P. 3,136,349.
Russev, Pencho C.: *See*—
Dinkov, Ivan V., Russev, Stephanov, and Nitchev. 3,145,-647.
Russin, Nicholas C.: *See*—
Kibler, Charles J., Russin, and Bell. 3,117,950.
Russo, Albert J., G. B. Rooney, and C. H. Costello, to Colgate-Palmolive Co. Fluid transfer apparatus. 3,142,319, 7–28–64, Cl. 141—113.
Russo, Anthony J. Opener for screw top containers. 3,140,-622, 7–14–64, Cl. 81—3.3.
Russo, Frank C., to Ferro Corp. Method for producing sintered ferrous article. 3,120,699, 2–11–64, Cl. 29—182.5.
Russo, James E., and J. J. Vitola, to Wheelock Signals, Inc. Audible signal device. 3,127,602, 3–31–64, Cl. 340—392.
Russo, Julio: *See*—
Xenis, Constantine P., and Russo. 3,163,181.
Russo, Salvatore F., to General Electric Co. Manual by-pass for meter socket and the like. 3,132,289, 5–5–64, Cl. 317—108.
Rust, David J., to Rylock Co., Ltd. Latch for sliding doors. 3,162,472, 12–22–64, Cl. 292—114.
Rust, Frank P., and E. S. Olsen, to Chicago Bridge & Iron Co. Field machining apparatus. 3,145,622, 8–25–64, Cl. 90—13.
Rust, Frederick F.: *See*—
De La Mare, Harold E., Kochi, and Rust. 3,140,303.
Rust, John B.: *See*—
Takimoto, Hideyo H., and Rust. 3,153,000.
Rust, John B., and C. L. Segal, to Hughes Aircraft Co. Glycidyl ethers of mononuclear polyhydric phenol-ketone condensation products and process of making same. 3,123,586, 3–3–64, Cl. 260—50.
Rust, John B., and H. H. Takimoto, to Hughes Aircraft Co. Stable organo siloxy-aluminum oxide polymers and process of producing same. 3,152,999, 10–13–64, Cl. 260—2.
Rustenbach, Fred C.: *See*—
Mussett, Harry L., and Rustenbach. 3,159,395.
Ruston & Hornsby Ltd.: *See*—
Stansfield, Frank M., Glasspoole, Morland, and Bradshaw. 3,125,082.
Rustrak Instrument Co. Inc.: *See*—
Lackoff, Samuel K. 3,129,998.
Rusy, Otto, to North American Philips Co., Inc. Crystal-stabilized oscillator of which the frequency can be modulated. 3,154,753, 10–27–64, Cl. 332—26.
Rutenberg, Karlis: *See*—
McSorley, Malcolm S., and Rutenberg. 3,143,747.
Rutgerswerke-Aktiengesellschaft: *See*—
Binder, Hans, Koch, and Altpeter. 3,149,116.
Meis, Helmut, and Kob. 3,133,895.
Ruth, Byron E.: *See*—
Bowden, George F., and Ruth. 3,130,470.
Bowden, George F., and Ruth. 3,130,950.
Kort, Roman, and Ruth. 3,142,883.
Ruth, John A., to Commercial Solvents Corp. Process for producing ammonium nitrate. 3,157,466, 11–17–64, Cl. 23—103.
Ruth, John H. Firearm accessory for attachment to muzzle of barrel. 3,155,003, 11–3–64. Cl. 89—14.
Rutherford, George W., to The W. L. Somner, Co., Inc. Automatic clutch engager. 3,135,168, 6–2–64, Cl. 91—179.
Rutherford, Robert G. Seed sower. 3,160,328, 12–8–64, Cl. 222—196.
Rutherford, Russell G. Pump construction. 3,142,258, 7–28–64. Cl. 103—48.
Rutherford, Sherman L.: *See*—
Lloyd, William A., and Rutherford. 3,141,986.
Rutherford, Sherman L., to Varian Associates. Methods and apparatus for enhanced sputterion pump operation. 3,159,332, 12–1–64, Cl. 230—69.
Ruthner, Othmar. Apparatus for pickling strip or wire stock. 3,146,782, 9–1–64. Cl. 134—122.
Ruthven, William A. Directional obstacle detecting cane for the blind. 3,158,851, 11–24–64, Cl. 340—258.
Ruti Machinery Works Ltd.: *See*—
Eggenschwyler, Eduard A. 3,122,174.
Honegger, Rolf. 3,122,172.
Zollinger, Hans. 3,125,130.
Ruti Machinery Works Ltd., formerly Honegger, Caspar: *See*—
Lutz, Friedrich, Stucki, and Merki. 3,122,268.
Stucki, Peter. 3,140,732.
Rutkosky, John J.: *See*—
Smith, Percy, and Rutkosky. 3,140,390.
Rutkovsky, Abraham and S., to Small Business Administration. Conveyor for selective dispatching of articles. 3,118,-531, 1–21–64, Cl. 198—38.
Rutkovsky, Abraham and S., to Railex Corp. Conveyor for selective dispatching of articles. 3,152,682, 10–13–64, Cl. 198—38.
Rutkovsky, Sam: *See*—
Rutkovsky, Abraham and S. 3,118,531.
Rutkovsky, Abraham and S. 3,152,682.
Rutkowski, Alfred J.: *See*—
Brois, Stanley J., and Rutkowski. 3,147,310.
Rutkowski, Alfred J., to Esso Research and Engineering Co. Preparation of polyols from olefins. 3,129,251, 4–14–64, Cl. 260—635.
Rutkowski, Alfred J., and A. F. Turbak, to Esso Research and Engineering Co. Sulfonic acid formation via sulfonation of trialkyl and triarylalkyl aluminum. 3,121,-737, 2–18–64, Cl. 260—513.
Rutkowski, Alfred J., E. J. Inchalik, and A. Schriesheim, to Esso Research and Engineering Co. Trialkylborane displacement reactions. 3,131,225, 4–28–64, Cl. 260—606.5.
Rutkowski, Alfred J., and A. F. Turbak, to Esso Research and Engineering Co. Novel preparation of organic sulfates. 3,133,949, 5–19–64, Cl. 260—457.
Rutkowski, Eugene V., Jr., to United States of America, Navy. Two-stage valve. 3,117,417, 1–14–64, Cl. 60—35.6.
Rutkus, Harold V.: *See*—
Franke, Paul G., Pollard, and Rutkus. 3,163,413.
Rutkus, John, Jr.: *See*—
Eichler, Rolf W., Eichorn, and Rutkus. 3,153,534.
Rutkus, John, Jr., and G. P. Taillie, to Xerox Corp. Optical scanning apparatus for xerographic printers. 3,137,202, 6–16–64, Cl. 88—24.
Rutkus, John, Jr., to Xerox Corp. Microfilm viewing apparatus. 3,160,058, 12–8–64, Cl. 88—24.
Rutledge, Charles E.: *See*—
Posse, Ernest W., and Rutledge. 3,148,529.
Rutledge, Joseph P., to Stewart-Warner Corp. Method of forming a brazed joint. 3,140,538, 7–14–64, Cl. 29—482.
Rutledge, Richard E., Sr Crown cap. 3,147,875, 9–8–64, Cl. 215—39.
Rutman, Ralph G., and D. M. Logan, to Mack Trucks, Inc. Torsion bar counterbalance for tilting cab vehicles. 3,146,847, 9–1–64, Cl. 180—89.
Rutner, Herman: *See*—
Allingham, Robert P., Miller, and Rutner. 3,133,089.
Svarnas, George, and Rutner. 3,150,124.
Rutt, Richard D., to The Carborundum Co. Surface treating apparatus with turnover device. 3,125,834, 3–24–64, Cl. 51—138.
Rutten, Donald E. Hopper for silo chute. 3,124,229, 3–10–64, Cl. 193—2.
Rutten, Peter and D. E. 3,139,860.
Rutten, Peter and D. E. 3,139,862.
Rutten, Peter and D. E., to P & D Sales & Mfg. Co., a division of The Neff and Fry Co. Bunk feeder. 3,139,860, 7–7–64, Cl. 119—52.
Rutten, Peter and D. E., to P & D Sales & Mfg. Co., a division of The Neff and Fry Co. Feeder. 3,139,862, 7–7–64, Cl. 119—56.
Ruttenberg, William H., Sr.: *See*—
Shilts, Richard L., and Ruttenberg. 3,140,216.
Rutter, Donald E., to International Business Machines Corp. Electromagnetic transducer head and method of manufacture. 3,116,540, 1–7–64, Cl. 29—155.5.
Rutter, Donald E., to International Business Machines Corp. Electromagnetic transducer head. 3,156,919, 11–10–64, Cl. 346—74.
Rutter, Donald P., and A. E. Cimochowski, to Johns-Manville Corp. Metal sheathed insulating blanket. 3,144,069, 8–11–64, Cl. 153—2.
Rutter, Wilson J. Mounting bracket. 3,158,348, 11–24–64, Cl. 248—240.4.
Ruttinger, Rudolf: *See*—
Smidt, Jurgen, Hafner, Seilmeier, Jira, and Ruttinger. 3,131,223.
Smidt, Jurgen, Ruttinger, Kojer, and Sieber. 3,144,488.
Rutz, Richard F., to International Business Machines Corp. Transistor structure. 3,162,770, 12–22–64, Cl. 307—88.5.
Ruud, Donna E. Head cover for use in treating hair. 3,143,-117, 8–4–64, Cl. 132—9.
Ruud, Gunnar. Method and apparatus for the removal of waste in the preparation of container blanks of sheet formed material. 3,128,929, 4–14–64, Cl. 225—103.
Ruuska, Paul E. Adjustable splint. 3,124,127, 3–10–64, Cl. 128—89.
Ruyle, William V.: *See*—
Chemerda, John M., Ruyle, and Mandell. 3,136,758.
Ruzicka, Leopold, and O. Jeger, to Firmenich et Cie. Internal ketals from dihydro-gamma-ionone, dihydro-gamma-irone and 5,5,9-trimethyl-2-methylene-1-(3′-oxo-butyl-1′)-decahydronaphthalene. 3,144,465, 8–11–64, Cl. 260—340.9.
Ruzza, Henry G. Device for laying bricks. 3,129,029, 4–14–64, Cl. 294—62.
Ryan Aeronautical Co., The: *See*—
Badewitz, Charles J. 3,135,479.
Chatelain, Maurice G. 3,152,330.
Chatelain, Maurice G. 3,153,235.
Chatelain, Maurice G. 3,155,975.
Condie, Marion A., and Reel. 3,131,390.
Craigo, Cecil E., James, and Hand. 3,140,842.
Davis, William S. III. 3,133,463.
Finvold, Rodger C. 3,150,363.
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Ryan, James L., and A. W. Nelson; said Nelson assor. to said Ryan. Journal box construction for railway cars. 3,139,312, 6–30–64, Cl. 308—40.

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Nero, Anthony P., and Ryan. 3,157,482.

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Ryan, John P., to Minnesota Mining and Mfg. Co. Radioactive sources and method for making. 3,147,225, 9–1–64, Cl. 252—301.1.

Ryan, John W. Battle contest game board with electrically operable signal means. 3,127,174, 3–31–64, Cl. 273—130.

Ryan, John W., to Dow Corning Corp. Alkaline reduction of hydrocarbonoxy silanes. 3,122,580, 2–25–64, Cl. 260—448.8.

Ryan, John W. Toy lie detector. 3,127,176, 3–31–64, Cl. 273—139.

Ryan, John W. Rocking horse. 3,138,376, 6–23–64, Cl. 272—53.2.

Ryan, John W., to Mattel, Inc. Key carrier. 3,147,609, 9–8–64, Cl. 70—456.

Ryan, John W., to Mattel, Inc. Toy musical instrument. 3,153,364, 10–20–64, Cl. 84—94.

Ryan, John W. Pellet cartridge. 3,154,062, 10–27–64, Cl. 124—16.

Ryan, John W. Motor simulating sounding toy. 3,160,984, 12–15–64, Cl. 46—232.

Ryan, John W., to Mattel, Inc. Toy water shooting cap rifle. 3,163,330, 12–29–64, Cl. 222—79.

Ryan, Joseph D., to Libbey-Owens-Ford Glass Co. Mirror mounting assembly. 3,131,251, 4–28–64, Cl. 88—98.

Ryan, Mark J. Lid for disposal can. 3,122,260, 2–25–64, Cl. 220—24.

Ryan, Patrick W., R. S. Bartlett, and R. A. Sanford, to Sinclair Research, Inc. Process for disproportionation of isoparaffinic hydrocarbons. 3,136,825, 6–9–64, Cl. 260—683.44.

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Ryan, William H., to Polaroid Corp. Silver halide emulsions containing vinyl sulfone-gelatin derivatives. 3,132,945, 5–12–64, Cl. 96—94.

Ryan, William H., to Polaroid Corp. Process for preparing silver halide emulsion containing gelatin derivatives. 3,138,461, 6–23–64, Cl. 96—94.

Ryan, William P., and E. G. Lizotte, to Royal McBee Corp. Auxiliary type device. 3,120,302, 2–4–64, Cl. 197—180.

Rybak, Frank J., and S. H. Hawley, to Curtis Mfg. Co. Crank means for reciprocating cutter carriage and actuating cutter head. 3,152,502, 10–13–64, Cl. 83—320.

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Rydberg, John A., to Gustavsbergs Fabriker, Aktiebolaget. Furnace for intermittent combustion, particularly for steam boilers and heating boilers. 3,119,436, 1–28–64, Cl. 158—4.

Rydberg, John A., to Gustavsbergs Fabriker, Aktiebolaget. Furnace for intermittent combustion. 3,143,160, 8–4–64, Cl. 158—4.

Rydberg, Martin D.: *See*—
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Rydberg, Sverker. Rotary pump or the like. 3,152,553, 10–13–64, Cl. 103—149.

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Ryder, Frank A., to Stewart-Warner Corp. Automatic parking brake release system. 3,119,477, 1–28–64, Cl. 192—3.

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Rylander, Paul N., and M. J. Kilroy, to Engelhard Industries, Inc. Dehydration of alcohols. 3,121,758, 2–18–64, Cl. 260—682.

Rylander, Paul N., and J. G. Kaplan, to Engelhard Industries, Inc. Hydrogenation of aldehydes at enhanced rate using platinum and ruthenium catalysts. 3,144,490, 8–11–64, Cl. 260—618.

Rylander, Paul N., and J. G. Kaplan, to Engelhard Industries, Inc. Hydrogenation of aldehydes using ruthenium catalyst. 3,150,192, 9–22–64, Cl. 260—638.

Rylander, Paul N., and N. F. Rakonza, to Engelhard Industries, Inc. Production of a tetrahydrophthalic acid and salts thereof. 3,162,679, 12–22–64, Cl. 260—514.

Rylander, Roy H. Electrically heated towel drier. 3,160,734, 12–8–64, Cl. 219—201.

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Rust, David J. 3,162,472.

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Rypinski, Chandos A., Jr. 3,144,624.

Rypinski, Chandos A., Jr., to C. A. Rypinski Co. Coaxial wave filter. 3,144,624, 8–11–64, Cl. 333—73.

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Ryser, Ernst, ½ to B. Voumard. Covered separable fastener. 3,130,465, 4–28–64, Cl. 24—205.1.

Ryser, Ernst, ½ to B. Voumard. Covered slide fastener. 3,146,506. 9–1–64, Cl. 24—205.1.

Ryshkewitch, Eugene I., to National Beryllia Corp. Metal-oxide gradient ceramic bodies. 3,148,981, 9–15–64, Cl. 75—206.

Ryshkewitch, Eugene I., and A. R. Sheets, to National Beryllia Corp. Method for producing high purity monocrystalline beryllia fibers and platelets. 3,125,416, 3–17–64, Cl. 23—183.

Ryskamp, Neil J., to Allis-Chalmers Mfg. Co. Isolating mechanism for automatic hydraulic brake adjuster. 3,161,-024, 12–15–64, Cl. 60—54.6.

Ryu, Hirosuke: *See*—
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Rywak, John, to Northern Electric Co., Ltd. Long interval timer circuit. 3,158,757, 11–24–64, Cl. 307—88.5.

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Rzepela, Stanley J. Accessories for Christmas trees. 3,136,-514, 6–9–64, Cl. 248—47.
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S.A.S. Lavorazione Materie Plastiche (L.M.P.) di M.I. Colombo & C.: *See*—
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Heise, Kurt. 3,146,941.
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Stickel, Herbert P., Samuels, Lorch, Efstathiou, and Kattelmann. 3,141,958.
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Mercer, Pierre E. 3,149,831.
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Bradt, Lynn. 3,150,609.
SINTEF: *See*—
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SKF Kugellagerfabriken Gesellschaft mit beschrankter Haftung: *See*—
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Ninos, Nicholas J., Lawrence, and Blake. 3,145,996.
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S & S Corrugated Paper Machinery Co., Inc.: *See*—
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S & S Research & Development, Inc.: *See*—
Schertz, Arthur R. 3,163,079.
SWF-Spezialfabrik fur Autozubehor: *See*—
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Saal, Frederick A., to Bell Telephone Laboratories, Inc. Digital gray code to analog converter utilizing stage transfer characteristic-techniques. 3,145,377, 8–18–64, Cl. 340—347.
Saari, Oliver E., to Illinois Tool Works, Inc. Semi-locking differential. 3,154,969, 11–3–64, Cl. 74—715.
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Saarivirta, Matti J., and P. W. Taubenblat, to American Metal Climax, Inc. Zinc base alloys. 3,146,098, 8–25–64, Cl. 75—178.
Saath, Theodor, to Leybold-Holding A.G. Pump. 3,151,808, 10–6–64, Cl. 230—205.
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Sabin, Eugene R., and W. J. Van Wye, to The Vendo Co. Push button apparatus for operating article release mechanism of vending machine. 3,163,326, 12–29–64, Cl. 221—90.
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Sabins, Rolland C., to Sabins-Dohrmann, Inc. Mounting means for cathodic protection anodes. Re. 25,565, 4–28–64, Cl. 204—197.
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Sable, Arthur J.: *See*—
Cooper, Dexter P., Jr., and Sable. 3,143,949.
Gold, Nicholas, and Sable. 3,134,313.
Gold, Nicholas, and Sable. 3,139,018.
Gold, Nicholas, and Sable. 3,147,684.
Land, Edwin H., Gold, and Sable. 3,152,531.
Mason, Paul B., Rubenstein, and Sable. 3,143,941.
Mason, Paul B., and Sable. 3,135,187.
Mason, Paul B., and Sable. 3,140,646.
Sable, Arthur J., to Polaroid Corp. Method for drying photographic sheet materials. 3,158,447, 11–24–64, Cl. 34—18.
Sable, Donald E. Load receiving, supporting and cushioning apparatus. 3,161,150, 12–15–64, Cl. 105—366.
Sabol, Albert, E. W. Blaha, and G. S. Curosh, to Standard Oil Co. Method of increasing alkalinity of composition by incorporating alkaline earth metal carbonates therein. 3,126,340, 3–24–64, Cl. 252—18.
Sabol, Albert R.: *See*—
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Sabol, Albert R., E. W. Blaha, and J. R. Plant, to Standard Oil Co. Lubricant additive and composition containing same. 3,133,022, 5–12–64, Cl. 252—46.7.
Sabol, Margaret M. Incinerator ash can and sifter. 3,153,-629, 10–20–64, Cl. 209—374.
Sabol, Raymond. Bottle tray. 3,162,344, 12–22–64, Cl. 224—48.
Sabol, Russell D. Trough-box. 3,150,812, 9–29–64, Cl. 229—16.
Sabor, Etablissement: *See*—
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Sacchi, Giulio. Speed change device having resiliently deformable wheels. Re. 25,579, 5–19–64, Cl. 74—796.
Sacco, James: *See*—
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Sacco, Victor. 3,147,886.
Sacco, Michael J.: *See*—
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Sacco, Victor, ½ to J. Sacco. Liquid pumping, delivering and metering apparatus. 3,147,886, 9–8–64, Cl. 222—23.
Sachs, John P., to Union Carbide Corp. Multi-ply liner bags. 3,122,297, 2–25–64, Cl. 229—14.
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Lefrancois, Bernard, Sack, Vaniscotte, and Dirian. 3,133,793.
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Higgs, Ernest R., and Lyons. 3,118,271.
Stiepel, Erhard E., and Aurich. 3,124,845.
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Sada, Pietro, to Industrie Verwertungsprodukte Anstalt. Devices for opening the hermetically sealed cans. 3,146,-905, 9–1–64, Cl. 220—48.
Sadashige, Koichi, to Radio Corp. of America. Beam current stabilization in a cathode ray tube. 3,145,321, 8–18–64, Cl. 315—30.
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Sadler, Fred S., to McGraw-Edison Co. Thermally stabilized cellulose materials for electrical insulation. 3,135,627, 6–2–64, Cl. 117—143.
Sadler, Harry J., and E. E. Cook, to Hypro Engineering, Inc. Surge tank. 3,157,202, 11–17–64, Cl. 138—26.
Sadler, James E., to International Harvester Co. Cotton picker doffer. 3,151,432, 10–6–64, Cl. 56—41.
Sadler, John H.: *See*—
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Sadowski, Edward P., and R. F. Decker, to The International Nickel Co., Inc. Cast steel. 3,132,937, 5–12–64, Cl. 75—124.
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Saegebarth, Klaus A., to E. I. du Pont de Nemours and Co. Preparation of glycols from disubstituted acetylenes. 3,157,704, 11–17–64, Cl. 260—618.
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Cropp, David I., Jordan, and Lingo. 3,128,529.
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Saffer, Charles M., Jr., to Thiokol Chemical Corp. Ammonium nitrate-aliphatic hydrocarbon-urea clathrate explosives. 3,135,637, 6–2–64, Cl. 149—46.
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Saffin, Paul: *See*—
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Saffir, Jacob A., to The Dentists' Supply Co. of New York. Method of casting teeth having differently colored layers. 3,126,429, 3–24–64, Cl. 264—20.
Saffir, Jacob A., to The Dentists' Supply Co. of New York. Dental hand piece. 3,141,650, 7–21–64, Cl. 253—2.
Saffir, Jacob A., to The Dentists' Supply Co. of New York. Sterile surgical packaging. 3,148,772, 9–15–64, Cl. 206—63.2.
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Safford, Moyer M., and R. L. Myers, to General Electric Co. Graft co-polymers of polybutadiene and a monoaryl substituted vinylidene compound and process for producing same. 3,151,184, 9–29–64, Cl. 260—45.5.
Safianoff, Albert, to The Gillette Co. Hair curler. 3,122,146, 2–25–64, Cl. 132—39.
Safianoff, Albert, to The Gillette Co. Means locking valve actuating mechanism against accidental operation. 3,149,757, 9–22–64, Cl. 222—153.
Safir, Aran. Apparatus for objectively testing an optical system. 3,136,839, 6–9–64, Cl. 88—56.
Safrin, Julius, and E. J. Strobl, to Albert Verley & Co. Extraction of essential perfume fragrance components with fluorinated hydrocarbons. 3,150,050, 9–22–64, Cl. 167—94.
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Sagal, John, Jr., and F. D. Allen, to Eastman Kodak Co. Antifoggants for photographic silver halide emulsions. 3,128,187, 4–7–64, Cl. 96—109.
Sagara, Hideo, to Mitsubishi Shipbuilding & Engineering Co., Ltd. Multi-layer pipes. 3,163,183, 12–29–64, Cl. 138—144.
Sagarin, Philip H., to Valve Corp. of America. Cap construction for aerosol dispensers. 3,153,497, 10–20–64, Cl. 222—394.
Sagarin, Philip H., and W. R. O'Donnell, to VCA Inc. Aerosol dispenser having a top wall recessed to accommodate a valve button. 3,134,518, 5–26–64, Cl. 222—394.
Sagarin, Philip H., and W. R. O'Donnell, to VCA, Inc. Aerosol dispenser having a wall-surrounded valve actuator button. 3,161,330, 12–15–64, Cl. 222—394.
Sage, Ira M., to Keuffel & Esser Co. Electrographic printer. 3,144,354, 8–11–64, Cl. 118—40.
Sage, Ira M., and B. Kaminstein, to Keuffel & Esser Co. Electrophotographic apparatus. 3,136,233, 6–9–64, Cl. 95—1.7.
Sage, Walter P. Beater for drums. 3,150,555, 9–29–64, Cl. 84—422.
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Sahlberg, Carl G. I., to Bofors, Aktiebolaget. Loading pendulum assembly for an automatic gun. 3,134,303, 5–26–64, Cl. 89—45.
Sahler, Carl P. Combined hot water and warm air heating system for household use. 3,144,207, 8–11–64, Cl. 237—2.
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Faust, John A., and Sahyun. 3,162,685.
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Saikachi, Haruo, A. Oyama, R. Ueno, and H. Inoue. 5-(5-nitro - 2-furyl-mono- and di-vinylene)-1,3,4-oxadiazoline-2-one and process. 3,146,232, 8–25–64, Cl. 260—240.
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St. Clair, Theodore A., to Textron, Inc. Temperature compensating means for gas meters. 3,119,264, 1–28–64, Cl. 73—281.
St. Clair, Theodore A., and E. L. Greenhill, to Textron, Inc. Gas meter. 3161,049, 12–15–64, Cl. 73—267.
St. Clair, William E., and M. J. Waldron, to Koppers Co., Inc. Curable tar-resorcinol still residue epoxy ether compositions. 3,133,033, 5–12–64, Cl. 260—28.
St. Clair, William E., and R. H. Moult, to Koppers Co., Inc. Resorcinol-formaldehyde resins and adhesives made therefrom. 3,133,034, 5–12–64, Cl. 260—29.3.
St. Clair, William E., and B. T. Larkin, to Koppers Co., Inc. Epoxidizing polyhydric phenol using a neutral amide catalyst. 3,148,171, 9–8–64, Cl. 260—47.
St. Cyr, Joseph A. Combined electrical and fluid rotatable connector. 3,125,649, 3–17–64, Cl. 200—82.
St. Denis, Joseph F. Demagnetizer device using permanent magnets. 3,126,502, 3–24–64, Cl. 317—203.
St. Denny, Ralph B., and F. H. Brown, to W. C. Coyne, and T. M. Flanagan. Folding apparatus. 3,127,165, 3–31–64, Cl. 270—66.
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Bertrand, Pierre L., and Acloque. 3,149,945.
Chan, Andre D. H., and Lambert. 3,119,680.
Cosnard, Jean-Claude, and Trezain. 3,144,300.
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Rismondo, Ivo. 3,155,483.
Simons, Hubert. 3,163,515.
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St. Jacques, Francis J. Bottle cap. 3,135,408, 6–2–64, Cl. 215—39.
St. Jacques, Joseph A., to General Electric Co. Strand transposing mechanism. 3,154,112, 10–27–64, Cl. 140—71.
St. Jean, Lloyd E., to Sanders Associates Inc. High frequency transmission line. 3,155,881, 11–3–64, Cl. 317—101.
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St. John, Gerald V. M., to General Motors Corp. Molds for making air filters and the like. 3,137,039, 6–16–64, Cl. 18—34.
St. John, Glen A. Device for installing and removing fluorescent light tubes. 3,129,970, 4–21–64, Cl. 294—20.
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Saint-Paul, Jean R. L. Deformable drum for the manufacture of tires. 3,144,374, 8–11–64. Cl. 156—416.
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Gallagher, Frank L., Spottiswoode, and Sherman. 3,152,-921.
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Greene, Kermit. 3,162,303.
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Meissner, William E., and Lane. 3,151,427.
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Pitt, Edgar W., and Greene. 3,144,131.
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Swanson, Victor E. 3,153,475.
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St. Thomas, William H. Combination billfold, purse, and pocket case. 3,120,253, 2–4–64, Cl. 150—35.
Sainte-Claire, Joseph D. Ballast means for ships and the like. 3,137,263, 6–16–64, Cl. 114—125.
Sainte-Claire, Joseph D. Sailing ship rigging and its operation. 3,149,603, 9–22–64, Cl. 114—102.
Sair, Louis, to The Griffith Laboratories, Inc. Dry solid compositions for meat processing. 3,122,442, 2–25–64, Cl. 99—222.
Sair, Louis, and W. P. Donahoo, to The Griffith Laboratories, Inc. Method of curing meat. 3,139,347, 6–30–64, Cl. 99—159.
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Saito, Hifumi. Healds for a jet loom. 3,162,215, 12–22–64, Cl. 139—91.
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Saito, Kunishiro, to Nippon Electric Co. Ltd. Variable pulse width circuit. 3,139,535, 6–30–64, Cl. 307—88.5.
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Sai, Stanley. Method for forming heat-exchange devices. 3,139,679, 7–7–64. Cl. 29—471.1.
Sajeck, George. Low pressure warning apparatus. 3,131,667, 5–5–64, Cl. 116—70.
Sajovec, Frank M., Jr., and D. R. Tomko, to Curtiss-Wright Corp. Automatically actuated spring clutches. 3,153,352, 10–20–64, Cl. 74—722.
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Sakai, Hideo. Method for storage of foods by packing with active nitrogen. 3,155,525, 11–3–64, Cl. 99—221.
Sakaki, Yoshinobu. Automatic diaphragm control device for photographic camera. 3,156,171, 11–10–64, Cl. 95—64.
Sakaki, Yoshinobu, and H. Teshi. Exposure and sensitivity control apparatus. 3,139,807, 7–7–64, Cl. 95—64.
Sakakibara, Seiichi, and T. Ogawa, to Kurashiki Rayon Co., Ltd. Apparatus for simultaneous bi-axial orientation of plastic film. 3,153,812, 10–27–64, Cl. 18—1.
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Sakalay, Fred E., to International Business Machines Corp. Parity predicting circuit. 3,141,962, 7–21–64, Cl. 235—153.
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Sakamoto, Tatsunosuke, S. Inoue, Y. Sano, and S. Nakahara, to Matsushita Electric Industrial Co., Ltd. Automatic electric egg cooker. 3,147,689, 9–8–64, Cl. 99—331.
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Sakuma, Akira, and S. Hirano, to Lion Hamigaki Kabushiki Kaisha. Process for manufacturing protoanemonin containing cotton. 3,152,957, 10–13–64, Cl. 167—84.
Sakuma, Yasuji. Umbrella stand. 3,136,426, 6–9–64, Cl. 211—62.
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Salathiel, Richard A., and V. R. Porter, to Jersey Production Research Co. Water base drilling fluid and method of drilling a well utilizing the same. 3,146,199, 8–25–64, Cl. 252—8.5.
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Salemka, Robert M., to The Bendix Corp. Thrust vector control. 3,128,602, 4–14–64, Cl. 60—35.54.
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Salerno, Gaspare. Portable boat anchor and rope stowage device. 3,143,993, 8–11–64, Cl. 144—210.
Salerno, Samuel J., to J. L. Ross. Mechanism for simulating sounds and vibrations of a heart beat. 3,137,092, 6–16–64, Cl. 46—232.
Salete, Felipe, to Refaccionaria De Molinos, S.A. Sifting frame. 3,126,332, 3–24–64, Cl. 209—408.
Salgado, Alvaro, and A. R. Manyak, to Reichhold Chemicals, Inc. Stable non-draining composition of matter and method of producing the same using soluble light metal salt. 3,124,549, 3–10–64, Cl. 260—22.
Salgado, Alvaro, and A. R. Manyak, to Reichhold Chemicals, Inc. Stable non-draining composition of matter and method of making same using soluble heavy metal salt. 3,124,550, 3–10–64, Cl. 260—22.
Salgado, Alvaro, and W. C. Forster, to Reichhold Chemicals, Inc. Polymerizable polyester resin containing a cadmium salt as polymerization inhibitor. 3,146,216, 8–25–64, Cl. 260—45.4.
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Salina, Louis E. Phase failure protection for polyphase motors. 3,155,880, 11–3–64, Cl. 317—46.
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Salisbury, Reuben W., to E. I. du Pont de Nemours and Co. Apparatus for reconditioning tubes. 3,158,066, 11–24–64, Cl. 90—14.
Salk, Gilbert, to Murray Salk & Co., Inc. Garment for incontinent individuals. 3,162,196, 12–22–64, Cl. 128—287.
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Sallmann, Richard, and R. Anliker, to Ciba Ltd. Ferric chelates of 1-hydroxy-2 :6-di-(N,N'-bis-carboxy-ethyl or methyl)-amino-methyl benzenes. 3,132,934, 5–12–64, Cl. 71—1.
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Salmon, Clarence P., to Flexonics Corp. Mechanical motion transmitter. 3,159,033, 12–1–64, Cl. 73—368.3.
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Glaser, Peter E., Salmon, and Emslie. 3,151,364.
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Salo, Martin, and G. J. Clarke, to Eastman Kodak Co. Nonflammable gelable composition of cellulose acetate propionate and cellulose acetate butyrate. 3,137,585, 6–16–64, Cl. 106—189.
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Sammons, George D., to Phillips Petroleum Co. Nitraza polymer compositions. 3,151,165, 9–29–64, Cl. 260—583.

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Sandor, Bela, to General Motors Corp. Flush type door handles. 3,153,553, 10–20–64, Cl. 292—336.3.

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Smith, Robert E. 3,135,653.

Sanfilippo, Salvatore G., P. L. Gordon, and H. Silverstein, to The Borden Co. Polyvinyl acetate emulsions with unsaturated esters. 3,133,040, 5–12–64, Cl. 260—45.5.

Sanford, Adrian B. Teaching machine. 3,116,564, 1–7–64, Cl. 35—9.

Sanford, Albert A. Seamless plastic tubing extrusion molding machine. 3,146,495, 9–1–64, Cl. 18—14.

Sanford, Mable M. Diaper holder. 3,143,112, 8–4–64, Cl. 128—287.

Sanford Research Co.: *See*—
De Groft, Walter J. 3,137,886.

Sanford, Richard A., to Phillips Petroleum Co. Gas chromatographic analysis of trace materials. 3,126,732, 3–31–64, Cl. 73—23.

Sanford, Robert A.: *See*—
Anderson, Arvin D., and Sanford. 3,162,596.
Ryan, Patrick W., Bartlett, and Sanford. 3,136,825.

Sanford, Robert A., and A. D. Anderson, to Sinclair Research, Inc. Catalyst demetallization. 3,151,088, 9–29–64, Cl. 252—416.

Sanford, Robert A., and E. C. Gossett, to Sinclair Research, Inc. Cracking a poisoned hydrocarbon feedstock. 3,158,-565, 11–24–64, Cl. 208—120.

Sanford, Robert F., to Radio Corp. of America. Fast-attack control system with controlled release time. 3,134,916, 5–24–64, Cl. 307—125.

Sanford, Roy S.: *See*—
Eames, James O., and Sanford. 3,143,969.
Eaton, Wilfred A. Re. 25,517.

Sanford, Roy S. & Co.: *See*—
Eames, James O., and Sanford. 3,143,969.
Hagan, Albert W. 3,126,143.

Sanford, Stuart P., to Westinghouse Electric Corp. Packing and display carton. 3,136,410, 6–9–64, Cl. 206—45.14.

Sangamo Electric Co.: *See*—
Moyers, Chester E. 3,162,934.

Sangeorge, Joseph. Portable grill. 3,139,880, 7–7–64, Cl. 126—25.

Saniewski, Stanley A. Torsion spring. 3,118,660, 1–21–64, Cl. 267—57.

Sanitary Scale Co.: *See*—
Karp, Edward C. 3,124,185.

Sanitor Mfg. Co.: *See*—
Thomasma, John C., and C. W. 3,133,672.
Thomasma, John C. and C. W. 3,152,722.

Sankey, Edward L.: *See*—
Schultz, Fred J., and Sankey. 3,159,765.

Sankey, Joseph, & Sons Ltd.: *See*—
Leslie, Ivan A. 3,135,439.

Sankyo Co., Ltd.: *See*—
Iwai, Issei, and Iwashige. 3,160,624.
Nakanishi, Kazuo, Tagawa, and Minato. 3,135,667.
Oku, Hachiro, and Nakanishi. 3,156,618.
Okunuki, Kazuo, Hagihara, Shin, and Sekuzu. 3,140,281.
Sunagawa, Genshun, Arakawa, Sato, and Minakami. 3,121,726.
Tsuda, Kyosuke, Nozoe, and Okada. 3,129,234.

Sanlader, Joseph F.: *See*—
Irwin, Raymond A., and Sanlader. 3,139,208.

Sanner, George E., to Westinghouse Electric Corp. Three beam monopulse radar system and apparatus. 3,129,425, 4–14–64, Cl. 343—16.

Sanni, Dominic A. Disposable service package and method for preparing same. 3,149,981, 9–22–64, Cl. 99—171.

Sanno, Yasushi: *See*—
Tanaka, Kuniyoshi, Mizuno, and Sanno. 3,157,635.
Tanaka, Kuniyoshi, Ohmura, Ogata, Sanno, Yoneda, and Suhara. 3,120,511.

Sanno, Yasushi, K. Nara, S. Minato, and Y. Hirose, to Takeda Chemical Industries, Ltd. Method for purification of 5′-purinenucleotides. 3,157,636, 11–17–64, Cl. 260—211.5.

Sano, Karel M., to Gevaert Photo-Producten N.V. Cassette for radiographic film sheets. 3,135,864, 6–2–64, Cl. 250—68.

Sano, Masashi: *See*—
Hiyoshi, Junichi, and Sano. 3,142,160.

Sano, Yoshiaki: *See*—
Sakamoto, Tatsunosuke, Inoue, Sano, and Nakahara. 3,147,689.

Sanon, Joseph. Piston ring structure. 3,131,944, 5–5–64, Cl. 277—139.

Sanraku Distillers Co., Inc.: *See*—
Motozaki, Shinichi, Tsunoda, Okumura, Okada, Ozaki, and Ishikura. 3,128,237.
Okada, Hiroshi, Takinami, and Hirose. 3,138,540.
Okumura, Shinji, Tsugawa, Tsunoda, and Kono. 3,136 702.

Sanraku Shuzo Kabushiki Kaisha: *See*—
O'Hara, Masami, Tsuchiya, Kawamoto, Shiio, Motozaki, Tsunoda, and Kinoshita. 3,141,831.

Sant, Roland E. Door stops, more particularly for smoke doors. 3,150,894, 9–29–64, Cl. 292—201.

Santa Fe Instruments Inc.: *See*—
Alcaro, Francis A. 3,150,506.

Santangelo, Anthony S. Automatically inflatable flotation device for bathing suits. 3,130,424, 4–28–64, Cl. 9—316.

Santangelo, Francis J., to Johnson & Johnson. Composite sterilizable container. 3,135,455, 6–2–64, Cl. 229—30.

Santee, Gordon F.: *See*—
Deretchin, David R., and Santee. 3,142,609.

Santee, Harold P., to Oil Sand Conditioning Corp. Secondary oil recovery method. 3,135,326, 6–2–64, Cl. 166—9.

Santeler, Donald J., to General Electric Co. Method and apparatus for gas analysis. 3,135,108, 6–2–64, Cl. 73—23.

Santeler, Donald J., and F. C. Hurlblut, to General Electric Co. Cryogenic pumping apparatus. 3,131,396, 4–28–64, Cl. 62—404.

Santelli, Thomas R., to Owens-Illinois Glass Co. Method of forming partly foamed plastic articles. 3,144,493, 8–11–64, Cl. 264—51.

Santelli, Thomas R., to Johns-Manville Fiber Glass Inc. Method of treating a surface with a stable aqueous silanol dispersion. 3,154,431, 10–27–64, Cl. 117—161.

Santilli, Arthur A.: *See*—
Osdene, Thomas S., and Santilli. 3,122,544.
Osdene, Thomas S., and Santilli. 3,122,547.
Osdene, Thomas S., and Santilli. 3,134,776.
Osdene, Thomas S., and Santilli. 3,138,592.
Osdene, Thomas S., and Santilli. 3,138,594.
Osdene, Thomas S., and Santilli. 3,138,595.

Santillo, Samuel L., to Flexsteel Industries Inc. Seat spring structure. 3,156,460, 11–10–64, Cl. 267—102.

Santini, Vincent. Multi-resonator accordion. 3,145,609, 8–25–64, Cl. 84—376.

Santo, Don. Combination awning and storm shutter. 3,149,-381, 9–22–64, Cl. 20—57.5.

Santoleri, Joseph J.: *See*—
Hyer, James P., and Santoleri. 3,138,150.

Santora, James V. Staple button fastener. 3,142,878, 8–4–64, Cl. 24—96.

Santoro, Peter F.: *See*—
Grabowski, Hilary A., and Santoro. 3,116,977.

Santos, Edward A.: *See*—
O'Brien, John F., and Santos. 3,161,978.

Santourian, Melcon, to Phillips Petroleum Co. Fluid drive recovery of oil. 3,120,870, 2–11–64, Cl. 166—9.

Santourian, Melcon, to Phillips Petroleum Co. Miscible phase flooding in oil production. 3,126,951, 3–31–64, Cl. 166—9

Sanwa Mishin Seizo Kabushiki Kaisha (Sanwa Sewing Machine Mfg. Co., Ltd.): *See*—
Fujita, Toshio. 3,137,256.

Sanyo Electric Co., Ltd.: *See*—
Matsunaga, Takaho. 3,161,847.
Yamano, Masaru, and Iemura. 3,152,271.
Yamano, Masaru, and Ikeda. 3,156,585.
Yamano, Masaru, and Komatsu. 3,162,531.

Sanyo Tokushu Seiko Kabushiki Kaisha: *See*—
Tanaka, Shoichiro. 3,129,727.

Sanz, Manuel C. Pipette. 3,118,306, 1–21–64, Cl. 73—425.4.

Sanz, Manuel C. Plunger sealing means for microliter burette. 3,121,513, 2–18–64, Cl. 222—45.

Saperstein, Sidney: *See*—
Wingerd, Winston H., and Saperstein. 3,125,451.

Saphra, Frederick, to Sperry Rand Corp. Angular speed responsive device. 3,129,301, 4–14–64, Cl. 200—80.

Sapilevsky, Piotr F., to Moscovsky Experimentalny Zavod iskoosstvennoi Kozhi e mekha. Method of manufacturing imitation fur from chenille yarns. 3,155,557, 11–3–64, Cl. 156—72.

Saponara, Domenick, to Caloric Corp. Ventilated stove. 3,150,655, 9–29–64, Cl. 126—21.

Saponara, Domenick, and W. T. Kemp, to Caloric Appliance Corp. Radiant burner. 3,122,197, 2–25–64, Cl. 158—116.

Saporito, Vincent J., to Kollsman Instrument Corp. Pressure control switch. 3,122,617, 2–25–64, Cl. 200—83.

Sapp, Julian F., Sr., to Louisville and Nashville Railroad Co. Vehicle underframe. 3,161,147, 12–15–64, Cl. 105—250.

Sapper, Wolfgang: *See*—
Kaupp, Josef, Thalhofer, Träger, and Sapper. 3,143,-431.

Sarafinas, Bruno A., to United-Carr Fastener Corp. Fastening device. 3,119,299, 1–28–64, Cl. 85—5.

Sarafinas, Bruno A., to United-Carr Fastener Corp. Plug button, molding, tubing and wiring and similar devices. 3,131,825, 5–5–64, Cl. 220—24.5.

Saranga, Cesare. Sealed beam headlight. 3,153,168, 10–13–64, Cl. 313—113.

Sarapuu, Erich. Electro-repressurization. 3,141,504, 7–21–64, Cl. 166—36.

Sarco Co., Inc.: *See*—
Curatola, Paul C. 3,162,208.

Sarcone, Dominick C. Sewer cleaning machine. 3,159,861, 12–8–64, Cl. 15—104.3.

Sardinas, Joseph L.: *See*—
Tanner, Fred W., Jr., and Sardinas. 3,140,239.

Sarett, Lewis H.: *See*—
Oberster, Arthur E., Beyler, and Sarett. 3,121,079.
Rogers, Edward F., and Sarett. 3,155,572.

Sarett, Lewis H., to Merck & Co., Inc. 2,4-dibromo-9-halo-allopregnanes. 3,133,093, 5–12–64, Cl. 260—397.45.
Sarett, Lewis H., and H. D. Brown, to Merck & Co., Inc. Anthelmintic compositions and methods of using same. 3,155,571, 11–3–64. Cl. 167—53.
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Young, Richard D., and Sargeant. 3,133,281.
Sargent, Albert A., to Moore Business Forms, Inc. Strip severing machines. 3,135,446, 6–2–64, Cl. 225—100.
Sargent, Bert L. Packaging machine. 3,133,391, 5–19–64, Cl. 53—206.
Sargent's, C. G., Sons Corp.: *See*—
Carkin, Clarence A., Greenslade, and Lambert. 3,130,914.
Stevens, Samuel W. 3,123,202.
Sargent, Charles F.: *See*—
Herer, Jack. 3,117,759.
Sargent Engineering Corp.: *See*—
Cooper, Roy F., and Nyman. 3,118,650.
Sargent, Geoffrey W.: *See*—
Upchurch, Ezekiel H., and Sargent. 3,146,625.
Sargent, Herbert, and L. M. Richards, to Richfield Oil Corp. Decolorizing phthalic acids. 3,151,154, 9–29–64, Cl. 260—525.
Sargent, Jack, to Scam Instrument Corp. Annunciator system with acknowledgment and reset. 3,136,982, 6–9–64, Cl. 340—213.1.
Sargent, Le Roy H., to Varityper Corp. Photocomposing machine. 3,129,634, 4–21–64, Cl. 88—24.
Sargent, Roger N., to The Dow Chemical Co. Decolorization of amino acids. 3,127,443, 3–31–64, Cl. 260—534.
Sargent, Roger N., to The Dow Chemical Co. Repetitive process for the removal and/or recovery of amines from aqueous solutions. 3,159,632, 12–1–64, Cl. 260—268.
Sargent, Roger N., and C. W. Rieman, III, to The Dow Chemical Co. Method of separating non-ionized organic solutes from one another in aqueous solution. 3,134,814, 5–26–64, Cl. 260—583.
Sarjanian, Arshag, and W. Fritz; said Fritz assor. to said Sarjanian. Glove form. 3,159,504, 12–1–64, Cl. 118—500.
Sarka, Albert J., to The Wean Engineering Co., Inc. Apparatus for shearing continuously advancing strip. 3,134,283, 5–26–64, Cl. 83—395.
Sarka, Albert J., to The Wean Engineering Co., Inc. Apparatus for acting on continuously advancing elongated material. 3,156,150, 11–10–64, Cl. 83—298.
Sarkar, Asim K.: *See*—
Adams, Dennis A. W., and Sarkar. 3,119,820.
Sarkar, Asim K., and D. A. W. Adams, to Hickson & Welch Ltd. Optical whitening agents of the 1,3-diarylpyrazoline type. 3,133,080, 5–12–64, Cl. 260—310.
Sarkes Tarzian, Inc.: *See*—
Krepps, James E. Jr. 3,146,399.
Sarko, Anatole: *See*—
Germino, Felix, Zeitlin, and Sarko. 3,128,209.
Zeitlin, Benjamin R., Sarko, and Germino. 3,128,208.
Sarkus, Noreen T. Adjustable night stand and bed tray. 3,118,399, 1–21–64, Cl. 108—49.
Sarlund, Pentti V.: *See*—
Morris, George V., and Sarlund. 3,155,211.
Sarmento, Frank, and L. B. Almeida. Electrically operated feed metering device. 3,157,313, 11–17–64, Cl. 222—70.
Sarmi S.A., Societe d'Applications de Recherches Minieres et Industrielles: *See*—
Bumiller, Jacques. 3,119,113.
Sarnie, Michael C., Jr., and W. G. Vartanian. Support attachment for sleeping surfaces. 3,148,387, 9–15–64, Cl. 5—327.
Sarnoff, Stanley J. Cartridge with antipilfering piston. 3,126,004, 3–24–64, Cl. 128—218.
Sarnoff, Stanley J. Cartridge holder. 3,144,178, 8–11–64, Cl. 222—327.
Sarns, William M. Marine anchor and storage bracket. 3,158,128, 11–24–64, Cl. 114—210.
Saro, Richard F., to Detroit Stud Welding & Mfg. Corp. Mounting means and tool therefor. 3,147,832, 9–8–64, Cl. 189—88.
Sarofeen, George M. J., to Titmus Optical Co., Inc. Polishing synthetic resin lenses. Re. 25,620, 7–21–64, Cl. 51—284.
Sarofeen, George M. J., to Titmus Optical Co., Inc. Polishing synthetic resin lenses. 3,141,273, 7–21–64, Cl. 51—284.
Sarong, Inc.: *See*—
Buckingham, Mary R. 3,127,897.
Sarosy, Edmund F.: *See*—
Sandor, Bela, and Sarosy. 3,123,390.
Sandor, Bela, and Sarosy. 3,153,551.
Sarraf, Robert J., and E. G. Steele, to Rockwell Mfg. Co. Lubricating compositions. 3,134,736, 5–26–64, Cl. 252—28.
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Foote, Robert S., and Sarrafian. 3,134,957.
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Wennagel, Glenford J., and Sarrantonio. 3,151,593.
Sarratt, Everett R., to Laboratory For Electronics, Inc. Digital data processing system. 3,129,322, 4–14–64, Cl. 235—92.
Sarret, Pierre: *See*—
Gailliot, Paul, Baget, and Sarret. 3,156,693.
Sarret, Pierre L.: *See*—
Horclois, Raymond J., and Sarret. 3,134,773.
Sarring, Ernest J., and P. E. Kleineberg, to Harris-Intertype Corp. Automatic continuous book trimmer. 3,146,650, 9–1–64, Cl. 83—91.
Sarris, Rennos N., ⅛ to J. C. Gault. Pneumatic tires and tubes. 3,145,754, 8–25–64, Cl. 152—342.
Sarti, Eugenio: *See*—
Evangelisti, Giuseppe, Marro, Belardinelli, Sarti, Grandi, Bonfiglioli, and Righetti. 3,146,346.
Sarto, Jorma O., to Chrysler Corp. Floatless carburetor. 3,127,453, 3–31–64, Cl. 261—36.
Sartor, Ernest R. and E. W. Vibrator. 3,135,124, 6–2–64, Cl. 74—87.
Sartor, Ernest W.: *See*—
Sartor, Ernest R. and E. W. 3,135,124.
Sartor, Raymond A. Vehicle pipe rack. 3,161,296, 12–15–64, Cl. 211—60.
Sartori, Mario F., to E. I. du Pont de Nemours and Co. Cationic azo dyes. 3,119,810, 1–28–64, Cl. 260—163.
Sartori, Mario F., to E. I. du Pont de Nemours and Co. Naphthofuroquinolinediones and naphthofuroisoquinolinediones 3,121,086, 2–11–64, Cl. 260—286.
Sarui, Kiichiro, to Tokyo Giken Kabushiki Kaisha. Device for regenerating oxidized mineral oils. 3,154,488, 10–27–64, Cl. 210—500.
Saruta, Susumu: *See*—
Kojima, Hiroshi, Kasahara and Saruta. 3,124,682.
Sarver, Wayne D., and T. J. Stolle. Landing gear warning system. 3,134,088, 5–19–64, Cl. 340—27.
Sasaji, Ichiro, K. Ohno, and J. Kato, to Ajinomoto Kabushiki Kaisha. Resolution of ammonium N-acyl-dl-tryptophanates. 3,149,122, 9–15–64, Cl. 260—319.
Sasaki, Kanzo, to Shionogi & Co., Ltd. 6-amino-4-pregnene-3,20-dione and N-acyl derivatives thereof. 3,123,623, 3–3–64, Cl. 260—397.3.
Sasaki, Kanzo, to Shionogi & Co., Ltd. 5α-hydroxy-6β-aminosteroids of the androstane series. 3,156,710, 11–10–64, Cl. 260—349.
Sasaki, Kojiro, to Nihon Misin Seizo Kabushiki Kaisha. Hand-operated knitting machine. 3,120,114, 2–4–64, Cl. 66—60.
Sasaki, Rentaro, to Oki Electric Industry Co. Ltd. Type piece fixing device for high speed belt printer. 3,142,249, 7–28–64, Cl. 101—111.
Sasaki, Yozo: *See*—
Ishikawa, Yoshioki, Sasaki, and Inowaki. 3,139,568.
Saski, Masaharu. Method of preparing positives comprising a hydrophilic nitrocellulose layer for printing and plate-making use. 3,143,415, 8–4–64, Cl. 96—33.
Saslow, Seymour, to Espey Mfg. & Electronics Corp. Salt water battery. 3,148,090, 9–8–64, Cl. 136—100.
Sasnett, Bolling H., Jr. Gasoline pump housing. 3,139,215, 6–30–64, Cl. 222—23.
Sasnett, Russell M.: *See*—
Pei, Richard Y., and Sasnett. 3,132,003.
Sass, Otto: *See*—
Anania, James A. 3,128,535.
Sassano, Joseph: *See*—
Meyerhoefer, Carl. 3,118,165.
Sasse, Klaus: *See*—
Dickore, Karlfried, Sasse, and Wegler. 3,150,134.
Grewe, Ferdinand, Kaspers, Sasse, and Wegler. 3,146,161.
Sasse, Klaus, R. Wegler, and G. Unterstenhofer, to Farbenfabriken Bayer Aktiengesellschaft. 2,3-dimercaptoquinoxaline derivatives. 3,141,886, 7–21–64, Cl. 260—250.
Sasse, Klaus, R. Wegler, and G. Unterstenhöfer, to Farbenfabriken Bayer Aktiengesellschaft. Amino, mercapto quinoxalines. 3,157,654, 11–17–64, Cl. 260—250.
Sasser, Lloyd L., Sr.: *See*—
Schulz, Ewel R., and Sasser. 3,147,501.
Sassmannshausen, Knut. Search light. 3,144,993, 8–18–64, Cl. 240—41.3.
Sassmannshausen, Knut. Electric incandescent lamp. 3,149,259, 9–15–64, Cl. 313—275.
Sasso, Guido: *See*—
Amar, Sion S., and Sasso. 3,154,884.
Satam-Societe Anonyme pour tous Appareillages Mecaniques: *See*—
Carriol, Louis A. 3,152,623.
Satchell, Fred E., and W. L. Jolitz, to Brunswick Corp. Bowling pin. 3,138,380, 6–23–64, Cl. 273—82.
Satchwell Controls Ltd.: *See*—
Steghart, Fritz L. F., and Kershaw. 3,150,826.
Sato, Akihiko, to Nippon Electric Co. Ltd. Method of manufacturing semiconductor devices. 3,150,021, 9–22–64, Cl. 156—17.
Sato, Akihiko, and Y. Moriguchi, to Nippon Electric Co. Ltd. Method of producing improved alloyed silicon-aluminum P-N junctions. 3,122,460, 2–25–64, Cl. 148—185.
Sato, Hisao: *See*—
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Sato, Michiya: *See*—
Kageyama, Hiroo, Sato, and Inoue. 3,156,721.
Sato, Kenzo, to Kabushiki Kaisha Marita Seisakusho (known as J. Marita Dental Mfg. Co., Ltd.). Bearing holding mechanism of miniature air turbine for dental hand piece. 3,134,172, 5–26–64, Cl. 32—27.
Sato, Reiji, N. Yamaguchi, and Y. Takanashi, to Tokyo Shibaura Electric Co., Ltd. Cap-shaped cathode for cathode ray tubes. 3,134,042, 5–19–64, Cl. 313—270.
Sato, Shuichiro, and J. Nakaoka, to Nippon Sharyo Seizo Kaisha, Ltd. Foundation piles. 3,151,464, 10–6–64, Cl. 61—53.58.
Sato, Shuichiro, and J. Nakaoka, to Nippon Sharyo Seizo Kaisha, Ltd. Driving head with plural impact motors. 3,151,687, 10–6–64, Cl. 175—21.

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Ikeda, Hiroshi, Tsuji, Shiroyanagi, Ikeda, Fujimaki, Katayama, and Sato. 3,131,136.

Sato, Yasunobu: *See*—
Sunagawa, Genshun, Arakawa, Sato, and Minakami. 3,121,726.

Satrum, Clarence. Collapsible adjustable scaffold. 3,128,842, 4–14–64, Cl. 182—149.

Satterthwaite, Carl W., to Link Division of General Precision, Inc. Flight simulator. 3,141,245, 7–21–64, Cl. 35—12.

Sattler, Emil, and P. Schmidt. Process for purifying crude benzene. 3,131,231, 4–28–64, Cl. 260—674.

Satyendra, Kudumalakunte N., to Westinghouse Electric Corp. Infrared missile fire control system. 3,133,188, 5–12–64, Cl. 235—61.5.

Sauber, Charles J. Method of making a hollow thermoplastic club. 3,121,945, 2–25–64, Cl. 29—428.

Saucy, Gabriel: *See*—
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Sternbach, Leo H., Smith, and Saucy. 3,153,082.

Saucy, Gabriel, F. A. Smith, and L. H. Sternbach, to Hoffmann-La Roche Inc. Substituted-1,4-benzodiaze-pine 2(1H)-one compounds. 3,117,965, 1–14–64, Cl. 260—239.3.

Sauder, William C. Chemical memory cell. 3,158,798, 11–24–64, Cl. 317—231.

Sauer, Charles W., to United States of America, Army. Solid propellant containing organic oxidizers and polymeric fuel. 3,117,044, 1–7–64, Cl. 149—19.

Sauer, Christian H., ½ to G. W. Stiefvator. Brake system for wheel supported vehicles. 3,126,073, 3–24–64, Cl. 188—2.

Sauer, Curt: *See*—
Dames, Albert C., Weyn, and Sauer. 3,138,222.

Sauer, Edgar, J. Hahn, and K. Joos, to Zeiss Ikon Aktiengesellschaft. Photographic camera with automatic flash exposure mechanism. 3,118,356, 1–21–64, Cl. 95—10.

Sauer, Hans, A. Gaiser, and W. Weber. Current impulse transmitter. 3,153,704, 10–20–64, Cl. 179—90.

Sauer, Herman C., to United States Rubber Co. Method and apparatus for curing endless belts. 3,152,204, 10–6–64, Cl. 264—231.

Sauer, Hermann, A. Schmidt, and K. Kopetz, to Chemische Werke Huls Aktiengesellschaft. Flame-resistant polyolefine composition. 3,141,860, 7–21–64, Cl. 260—33.8.

Sauer, James F., J. T. Gebhardt, Jr., and E. D. Martenson, to Barber-Greene Co. Extensions for bituminous finishers. 3,155,021, 11–3–64, Cl. 94—45.

Sauer, Joseph A.: *See*—
Bennet, Eugene L., and Sauer. 3,148,032.

Sauer, Leo. Vehicle with container-lifting device. 3,148,794, 9–15–64, Cl. 214—394.

Sauer, Leo H.: *See*—
Brenner, Robert A., Cobb, and Sauer. 3,151,066.

Sauer, Louis. Foot and leg rest. 3,119,356, 1–28–64, Cl. 108—8.

Sauerlander, Marie: *See*—
Holldampf, Hans A. 3,149,363.

Sauers, Carol K., and R. J. Cotter, to Union Carbide Corp. Bis-maleamides prepared from piperazines and N-substituted isomaleimides. 3,133,070, 5–12–64, Cl. 260—268.

Sauers, Carol K., and R. J. Cotter, to Union Carbide Corp. Polymers of N-substituted isomaleimides and a process for their preparation. 3,144,435, 8–11–64, Cl. 260—78.

Sauers, Robert J. Baseboard scrubbing machine. 3,150,394, 9–29–64, Cl. 15—50.

Saul, Henry G., and A. G. Troka, to Supreme Products Corp. Dual purpose chuck. 3,162,283, 12–22–64, Cl. 192—34.

Saumsiegle, Robert W. Pneumatic Scale Corp., Ltd. Packaging machine. 3,145,517, 8–25–64, Cl. 53—190.

Saunders, Alan P. Centrifugal enclosed inert pump. 3,139,832, 7–7–64, Cl. 103—103.

Saunders, Alfred P.: *See*—
Widdowson, Albert H., Saunders, Adams, Wright, and Clarke. 3,151,474.

Saunders, Charles E., Jr., to American Machine & Foundry Co., Inc. Force multiplier heavy duty manipulator handle. 3,146,634, 9–1–64, Cl. 74—501.

Saunders, Charles L., Jr.: *See*—
Hall, Raymond L. 3,120,385.

Saunders, Edward R., Jr.: *See*—
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Saunders, Guy L., to Nordberg Mfg. Co. Hydraulic release for crushers. 3,125,304, 3–17–64, Cl. 241—231.

Saunders, Jack N., to Warmac Ltd. Heating systems. 3,128,947, 4–14–64, Cl. 237—8.

Saunders, Jack N., to Pressure Systems Ltd. High temperature heating systems. 3,140,048, 7–7–64, Cl. 237—56.

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Bloomfield, Allan A., Carter, Jones, Saunders, and Searle. 3,161,914.

Saunders, James, to A. & R. Scott, Ltd. Low-caking sodium chloride containing ammonium ferric citrate. 3,152,863, 10–13–64, Cl. 23—89.

Saunders, Milton A. Drawing instrument. 3,154,856, 11–3–64, Cl. 33—30.

Saunders, Neal T., to United States of America, National Aeronautics and Space Administration. Method of producing porous tungsten ionizers for ion rocket engines. 3,141,769, 7–21–64, Cl. 75—222.

Saunders, Percy L. Combined food container and heater. 3,145,706, 8–25–64, Cl. 126—262.

Saunders, Philip G. Method and device for producing reference lines on printing dies. 3,123,000, 3–3–64, Cl. 101—401.1.

Saunders, Ralph, to Burroughs Corp. Method of fabricating sub-miniature semi-conductor matrix apparatus. 3,158,927, 12–1–64, Cl. 29—155.5.

Saunders, Rhoderick K.: *See*—
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Saunders, Robert C. Game apparatus comprising a selector board and selector box. 3,144,252, 8–11–64, Cl. 273—130.

Saunders Valve Co. Ltd.: *See*—
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Price, Richard H. 3,123,336.
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Price, Richard H., and Jarrett. 3,120,817.
Shand, Stanley G., and Bentley-Leek. 3,139,801.

Saunders, Willard J. Automatic release device for seat belts. 3,142,102, 7–28–64, Cl. 24—230.

Saunderson, Jason L., and E. Du Bois, to Baird-Atomic, Inc. Spectroscopic apparatus having an oblique monitor radiation exit slit. 3,163,698, 12–29–64, Cl. 88—14.

Saurer, Adolph, Ltd.: *See*—
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Saurer, Curt, to Thornton Products Co. Hydraulic locking differential. 3,158,042, 11–24–64, Cl. 74—711.

Sause, Henry, Jr. Load binding mechanism. 3,120,370, 2–4–64, Cl. 248—361.

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Sausele, George J. H., to American Type Founders Co., Inc. Variable leading device for writing machines. 3,117,666, 1–14–64, Cl. 197—120.

Sausen, George N., to E. I. du Pont de Nemours and Co. N-difluoro-amino-substituted hydrazines and their preparation. 3,149,165, 9–15–64, Cl. 260—583.

Sauter, Bobbie S., to Deutsch Fastener Corp. Push fastener with inwardly directed limiting means. 3,125,922, 3–24–64, Cl. 85—5.

Sautier & Jaeger: *See*—
Megard, Henry. 3,124,763.

Sauvage, John E., and B. S. Elliott, to Swift & Co. Animal slaughtering. 3,149,368, 9–22–64, Cl. 17—1.

Sauvage, John E., and B. S. Elliott, to Swift & Co. Animal slaughtering. 3,149,370, 9–22–64, Cl. 17—45.

Sauvanet, Maurice, to Compagnie Francaise de Television. Systems for switching devices for sequentially transmitted signals. 3,162,838, 12–22–64, Cl. 340—147.

Savage Arms Corp.: *See*—
Knode, Oliver M., Jr. 3,130,513.

Savage, Conwell, to Westinghouse Electric Corp. Floor selector for an elevator control system. 3,160,232, 12–8–64, Cl. 187—29.

Savage, Harry A., 50% to D. W. Barlow. Feed pump. 3,144,963, 8–18–64, Cl. 222—66.

Savage, John, to Continuous Casting Co. Ltd. Construction of moulds used for the continuous casting of metals. 3,125,786, 3–24–64, Cl. 22—144.

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Savage, Kerry D., to Texaco Inc. Acoustical velocity well logging. 3,118,127, 1–14–64, Cl. 340—18.

Savage & Parsons Ltd.: *See*—
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Savage, Robert H.: *See*—
Bovenkerk, Harold P., Wentorf, and Savage. 3,136,615.

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Balitsky, Nicolay V., Volodin, Zmijevsky, Savchenko, Selezniova, Nepominiashtshy, and Tapeshkin. 3,146,475.

Savegnago, Bruno, and R. Storti. Child's carousel. 3,117,779, 1–14–64, Cl. 272—30.

Savidge, James L., 33⅓% to R. E. Anderson, and 33⅓% to K. B. Kober. Handle frame for portable power tool. 3,152,650, 10–13–64, Cl. 173—163.

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Saviers, George B., to Westinghouse Electric Corp. Electric lighting unit. 3,121,817, 2–18–64, Cl. 313—108.

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Savin, William A., to United States of America, Navy. Radiation sensing system for automatically guiding and positioning planes on aircraft carriers. 3,124,690, 3–10–64, Cl. 250—106.

Savio, Joseph, and R. T. Scriber, to Market Forge Co. Electrically heated forced air circulation oven. 3,127,499, 3–31–64, Cl. 219—35.

Savioli, Giulio V., to United States of America, Army. Auxiliary trigger device with safety. 3,141,254, 7–21–64, Cl. 42—70.
Savit, Carl H., and M. J. Wells, to Western Geophysical Co. of America. Time-scale recording apparatus. 3,144,651, 8–11–64, Cl. 346—74.
Savitt, George. Coaster. 3,161,394, 12–15–64, Cl. 248—346.1.
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Savona, Charles. Interchangeable stringed musical instrument. 3,130,625, 4–28–64, Cl. 84—267.
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Savouyaud, Jean, and J. Vertut, to Commissariat a l'Energie Atomique. Accessory-carrying member for a radiation-protective screen. 3,151,244, 9–29–64, Cl. 250—108.
Saw, Harold. Combined sealing cap and drinking vessel. 3,159,298, 12–1–64, Cl. 215—43.
Sawa, Natsuo, Y. Tsujino, S. Kishizoe, and T. Yoshida, to Toho Rayon Kabushiki Kaisha. Process for isolating free α-amino acids from cupric complex salts thereof. 3,142,-702, 7–28–64, Cl. 260—534.
Sawa, Yoshiro, S. Maeda, and N. Tsuji, to Shionogi & Co., Ltd. D-3-methoxy-4-phenoxy-N-methyl-Δ⁶-morphinan, derivatives thereof, and method for the purification thereof. 3,144,459, 8–11–64, Cl. 260—285.
Sawa, Yoshiro, and N. Tsuzi, to Shionogi & Co., Ltd. C-normorphinan derivatives and production thereof. 3,158,-617, 11–24–64, Cl. 260—294.
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Mizunuma, Sueharu, and Sawada. 3,119,291.
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Sawada, Yasuhiro, to Yawata Iron & Steel Co., Ltd. Feeding apparatus for powdery materials. 3,146,909, 9–1–64, Cl. 222—55.
Sawada, Yasuhiro, to Yawata Iron & Steel Co., Ltd. Apparatus for charging a powdered ore sintering machine with a raw material. 3,148,763, 9–15–64, Cl. 198—57.
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Sawyer, Alice C. Hairpin. 3,144,028, 8–11–64, Cl. 132—50.
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Wuerth, John M., Wilcox, West, Hallman, and Sawyer. 3,122,022.
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Smith, Homer A., and Sawyer. 3,160,495.
Smith, Homer A., and Sawyer. 3,125,434.
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Sawyer, Gary L. Educational device. 3,153,862, 10–27–64, Cl. 35—9.
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Sawyer, Joseph S. Heavy duty submarine type anchor. 3,118,416, 1–21–64, Cl. 114—206.
Sawyer, Lester T. Hair-gripping comb. 3,120,852, 2–11–64, Cl. 132—145.
Sawyer, Robert J. Shotgun cartridge. 3,146,713, 9–1–64, Cl. 102—42.
Sawyer, William F., to King-Seeley Thermos Co. Tool feed mechanism. 3,126,767, 3–31–64, Cl. 77—33.4.
Sawyer, William D., to Triad Plastics Products, Inc. Door construction and closure means therefor. 3,142,095, 7–28–64, Cl. 20—16.
Sawyers, Inc.: *See*—
Brown, Robert K. 3,120,150.
Golden, Kenneth E. 3,130,637.
Patton, George H. 3,145,253.
Sawyers Research Development Corp.: *See*—
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Saxl, Karel, to Imperial Chemical Industries Ltd. Idle roll mill. 3,138,980, 6–30–64, Cl. 80—40.
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Saxton, Arthur L., H. N. Weinberg, and E. J. Higgins, to Esso Research and Engineering Co. Submerged combustion distillation. 3,160,578, 12–8–64, Cl. 208—41.
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Sayag, Andre, to Zallea Brothers, Inc. Expansion joints for pipes. 3,127,200, 3–31–64, Cl. 285—226.
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Sayer, Bruce A., to Litton Systems, Inc. Accelerometer temperature compensation trimming apparatus. 3,130,589, 4–28–64, Cl. 73—477.
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Sayles, David C., to United States of America, Air Force. Explosive initiator-booster containing diethylacetylene and a perchlorate salt. 3,140,209, 7–7–64, Cl. 149—75.
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Burns, Leo C., Davis, De Bruin, and Saylor. 3,124,364.
Sayre, Charles H., E. J. Lewis, and J. W. O'Brien, to Federal-Mogul-Bower Bearings, Inc. Process for making composite bearings. 3,154,844, 11–3–64, Cl. 29—420.
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Scalera, Frank T., to General Electric Co. Tone arm mounting assembly. 3,163,429, 12–29–64, Cl. 274—23.
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Scales, Stanley R.: *See*—
Wisler, Allen E., and Scales. 3,158,214.
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Anderson, Andrew W. 3,125,841.
Anderson, Andrew W. 3,138,906.
Anderson, Andrew W. 3,141,602.
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Scarborough, Homer C., to Mead Johnson & Co. Process to prepare 1,2-diphenyl-4-carbamoyl - 3,5 - pyrazolidinedione. 3,159,648, 12–1–64, Cl. 260—310.
Scarborough, Homer C., and J. L. Minielli, to Mead Johnson & Co. 1-substituted-1,4-dihydro-4-quinazolones. 3,119,824, 1–28–64, Cl. 260—251.

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Scarf, Jack, to The Forgrove Machinery Co. Ltd. Article feeding apparatus. 3,135,373, 6–2–64, Cl. 198—25.
Scarnato, Thomas J., and E. J. Birkenbach, to International Harvester Co. Rotary mower. 3,152,432, 10–13–64, Cl. 56—295.
Scarpa, Eric W., to Baker Perkins Inc. Apparatus for the manufacture of wafer sandwiches. 3,150,614, 9–29–64, Cl. 107—1.
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Scarpa, James V. Liquid insecticide dispenser. 3,151,785, 10–6–64, Cl. 222—478.
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Scarpa, Thomas J., and V. P. Farley, to Gulton Industries, Inc. Device for welding metal foils and the like. 3,121,353, 2–18–64, Cl. 78—82.
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Dal Bianco, Bruno, and Scata. 3,142,734.
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Johnson, Roy B., Scerbo, and Brickman. 3,150,570.
Schaab, Rudolph S., and R. E. Brandt, to Amphenol-Borg Electronics Corp. Electrifier cylinder heating means. 3,119,603, 1–28–64, Cl. 263—6.
Schaad, Theodore A., and P. Widmer, to General Motors Corp. Method of assembling a coil spring seat cushion 3,122,829, 3–3–64, Cl. 29—436.
Schaadt, Franz, and H. Renner. Shaped charge with rotational insert. 3,146,711, 9–1–64, Cl. 102—24.
Schaaf, Arthur A. Straightening device. 3,154,820, 11–3–64, Cl. 20—38.
Schaaf, Cecil F., small interests to various assignees. Burial vault. 3,127,700, 4–7–64, Cl. 50—94.
Schaaf, Edward M., Jr., to Philip Morris, Inc. Method of forming cigarette filter. 3,128,680, 4–14–64, Cl. 93—1.
Schaaf, Fred W., G. L. Scott, and S. Rubin, to International Business Machines Corp. Cathode ray tube printer. 3,124,784, 3–10–64, Cl. 340—173.
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Schaaff, Ernst, to North American Philips Co. Inc. Electric discharge tube with accurately spaced electrodes. 3,139,554, 6–30–64, Cl. 313—250.
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Schaberg, Johannes G., to General Motors Corp. Combination stabilization gyroscope and accelerometer. 3,135,121, 6–2–64, Cl. 74—5.6.
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Siegmund, Gerhard, and Schaberger. 3,163,048.
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Schachenmeier, Gerhard, and K. Starke, to Badische Anilin- & Soda Fabrik Aktiengesellschaft. Combustion of sulfur with oxygen-containing gases. 3,149,916, 9–22–64, Cl. 23—179.
Schacher, Gordon E. Apparatus and procedure for sensing passage of moving thread or the like. 3,158,852, 11–24–64, Cl. 340—259.
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Schade, Frank S., to National Blank Book Co. Binder case construction convertible to easel form. 3,121,576, 2–18–64, Cl. 281—33.
Schade, Frank S., to National Blank Book Co. Masking panel construction for program teaching use. 3,125,813, 3–24–64, Cl. 35—9.
Schade, Frank S., to National Blank Book Co. Masking means for "program teaching" binders. 3,131,485, 5–5–64, Cl. 35—9.
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Schade, Otto H., Sr., to Radio Corp. of America. Apparatus for winding helical wire grids for electron tubes. 3,124,169. 3–10–64, Cl. 140—715.
Schaef, Harold M., to Victor Vending Corp. Continuous package dispensing machine. 3,131,830, 5–5–64, Cl. 221—25.
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Schaefer, Edward J., to Franklin Electric Co., Inc. Drive unit and control. 3,129,607, 4–21–64, Cl. 74—665.
Schaefer, Edward J., to Franklin Electric Co., Inc. Drive unit control system. 3,134,469, 5–26–64, Cl. 192—.02.
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Schaefer, Edward M. Apparatus for removing labels from bottles. 3,129,714, 4–21–64, Cl. 134—201.
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Huffman, Kenneth R., and Schaefer. 3,154,548.
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Schaefer, Gustave C. Dual wheel construction for trailers and the like. 3,140,879, 7–14–64, Cl. 280—81.
Schaefer, Hans A. Mixing dispenser for water supply. 3,155,283, 11–3–64, Cl. 222—129.1.
Schaefer, Hans F., Jr., to United Shoe Machinery Corp. Transmissions including self-adjusting circular splines. 3,161,080, 12–15–64, Cl. 74—640.
Schaefer, Harold A., to Schaefer Brush Mfg. Co., Inc. Device for cleaning endless conveyors. 3,139,975, 7–7–64, Cl. 198—230.
Schaefer, Harold W., and F. P. Speicher, to Philco Corp. Method for controlling the growth rate of microorganisms. 3,133,003, 5–12–64, Cl. 195—81.
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Schaefer, James C., and E. C. Schmidt, to W. M. Weil. Purification of boron. 3,137,647, 6–16–64, Cl. 209—2.
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Schaefer, Johannes, to I-T-E Circuit Breaker Co. Circuit for overcurrent detection. 3,121,174, 2–11–64, Cl. 307—88.
Schaefer, Johannes, to I-T-E Circuit Breaker Co. Fault current sensing means. 3,127,543, 3–31–64, Cl. 317—27.
Schaefer, Kenneth E.: *See*—
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Schaefer, Stephen, and D. L. Hanghian. Hanging bookcase. 3,146,888, 9–1–64, Cl. 211—43.
Schaefer, William H., Jr., and J. K. Stanley, to Crucible Steel Co. of America. High temperature coating for silicon steel. 3,160,509, 12–8–64, Cl. 106—63.
Schaefer, William. Sectional wooden gutter. 3,116,609, 1–7–64. Cl. 61—14.
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Schaeffer, Edwin O. Material separator. 3,149,723, 9–22–64, Cl. 209—114.
Schaeffer, William D., to Union Oil Co. of California. Amidomethylation of aromatic hydrocarbons. 3,123,638, 3–3–64, Cl. 260—562.
Schaeffer, William D., to Union Oil Co. of California. Production of benzene carboxylic acids and anhydrides. 3,137,707, 6–16–64, Cl. 260—346.4.
Schaeffer, William D., to Union Oil Co. of California. Clathration process. 3,161,694, 12–15–64, Cl. 260—674.
Schaeffer, William D., and H. E. Rea, Jr., to Union Oil Co. of California. Clathration method. 3,162,693, 12–22–64, Cl. 260—674.
Schaeffer, William S. Fluid transmission. 3,130,644, 4–28–64, Cl. 91—321.
Schaefgen, John R., to E. I. du Pont de Nemours and Co. Copolymers of vinyl chloroformate with acrylonitrile or vinyl acetate. 3,118,862, 1–21–64, Cl. 260—77.5.
Schaeppi, Dr., Aktiengesellschaft: *See*—
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Schaeppi, Johann H., to Schaeppi, Dr., Aktiengesellschaft. Circulatory adjuvant shell elements for cardiac glycoside suppository cores. 3,122,475, 2–25–64, Cl. 167—64.
Schaerer, Willy, and I. H. Lundquist, to Friden, Inc. Postage meter. 3,133,700, 5–19–64, Cl. 235—101.
Schaetzly, Raymond F., to Oil Equipment Mfg. Co., Inc. Apparatus for filling containers with liquid. 3,138,170, 6–23–64, Cl. 137—386.
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Schäfer, Fridolin, and K. Wick, to Robert Bosch, G.m.b.H. Method of making commutators. 3,161,947, 12–22–64, Cl. 29—155.54.
Schafer, Georg, Kugelfischer, & Co.: *See*—
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Schafer, Gerald V., ½ to J. B. Kelly. Buckshot shells for shotguns. 3,132,588, 5–12–64, Cl. 102—42.
Schafer, Gerald V., ½ to J. B. Kelly. Buckshot shells for shotguns. 3,132,589, 5–12–64, Cl. 102—42.
Schafer, Herman E. Serving cart. 3,132,641, 5–12–64, Cl. 126—268.
Schafer, Robert H., and D. C. Schlick, to Burroughs Corp. Data checking apparatus. 3,163,748, 12–29–64, Cl. 235—153.
Schäfer, Werner, R. Wegler, and L. Eue, to Farbenfabriken Bayer Aktiengesellschaft. Method for combating weeds 3,123,460. 3–3–64, Cl. 71—2.5.
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Schaffan, Stephan, to Atlas Tool Co., Inc. Articulated motor assembly. 3,135,887, 6–2–64, Cl. 310—154.
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Schaffer, Walter, to National Research Development Corp. Anti-skid brake mechanism. 3,153,559, 10–20–64, Cl. 303—21.
Schaffert, Roland M., to International Business Machines Corp. Photoelectrostatic apparatus. 3,132,267, 5–5–64, Cl. 310—5.
Schaffert, Roland M., to International Business Machines Corp. Electrostatic image transfer processes and apparatus therefor. 3,147,679, 9–8–64, Cl. 95—1.7.
Schaffert, Roland M., to International Business Machines Corp. Photoelectric recording apparatus. 3,148,354, 9–8–64, Cl. 340—173.
Schaffert, Roland M., to International Business Machines Corp. Apparatus for the development of electrostatic images. 3,152,012, 10–6–64, Cl. 118—637.
Schaffhausen, Albert N., to Minnesota Mining and Mfg. Co. Polypropylene film and method of making. 3,144,430, 8–11–64, Cl. 260—45.5.
Schaffner, Carl P.: *See*—
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Schaich, Wilbur A., to Owens-Illinois Glass Co. Hollow plastic containers. 3,140,004, 7–7–64, Cl. 215—1.
Schaich, Wilbur A., to Owens-Illinois Glass Co. Method for making plastic articles. 3,160,690, 12–8–64, Cl. 264—163.
Schaill, William S., to The Reading Laboratory, Inc. Reading pacer. 3,161,969, 12–22–64, Cl. 35—35.
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Schane, Harry P., to The Budd Co. Method for forming articles from thin sheet material. 3,135,045, 6–2–64, Cl. 29—423.
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Schantzer, Bernard Z. Dual purpose bag. 3,160,343, 12–8–64, Cl. 229—53.
Schapansky, Henry H. Method and mechanism for harvesting and grading alfalfa. 3,162,003, 12–22–64, Cl. 56—19.
Schaper, Lloyd S., to McGregor-Doniger Inc. Ball Position marker. 3,136,547, 6–9–64, Cl. 273—32.
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Scharf, Erich, and J. Fajans, to Cutler-Hammer, Inc. Photosensitive hole detector using phosphor radiation source. 3,128,385, 4–1–64, Cl. 250—219.
Scharf, Walter G., to Metal Film Co., Inc. Metallized yarn use in lame fabrics. 3,126,698, 3–31–64, Cl. 57—144.
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Scharge, Jack. Sliding doors. 3,138,830, 6–30–64, Cl. 20—19.
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Scharwachter, Werner, to Dynamit Nobel, A.G. Electric detonator. 3,132,586, 5–12–64, Cl. 102—28.
Schaschl, Edward, and G. A. Marsh, to The Pure Oil Co. Corrosion test apparatus. 3,123,789, 3–3–64, Cl. 338—13
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Schatz, Sam A. Combined spool rack and thread dispenser for sewing machines. 3,151,789, 10–6–64, Cl. 223—106.
Schaub, Dennis E. Detachable baseboard assembly. 3,161,-926, 12–22–64, Cl. 20—74.
Schaub, Franz, and B. Schleper, to Ruhrchemie Aktiengesellschaft. Locking mechanism for filter screw press. 3,154,-077, 10–27–64, Cl. 100—147.
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Schauer, George A., Jr. Engine with rotary valve. 3,134,373, 5–26–64, Cl. 123—51.
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Schechter, Edward, to Stressteel Corp. Method of processing stressed steel members. 3,125,469, 3–17–64, Cl. 148—12.
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Schecter, Roger M. Airborne chemical dispenser. 3,140,013, 7–7–64, Cl. 222—146.
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Scheid Maschinenfabrik G.m.b.H.: *See*—
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Schelf, Joseph A., 20% to H. M. Wikstrom, and 80% to Schelf, "Cap," and Associates, Inc. Exhaust diffuser and silencer for inboard motor boats. 3,121,469, 2–18–64, Cl. 181—64.
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Schell, Liguori J., Jr., and M. J. Petti. Lawn aerator. 3,163,456, 12–29–64, Cl. 294—50.7.
Schell, Roger E., to Crown Cork and Seal Co., Inc. Synchronized window for automatic inspection apparatus. 3,157,332, 11–17–64, Cl. 226—119.
Schellack, Harry F., to Radio Corp. of America. Method of fabricating grid electrodes. 3,130,757, 4–28–64, Cl. 140—71.5.
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Schenck, Leslie M., and J. H. Shown, to General Aniline & Film Corp. Method for preparing alkali salts of β-alkylvinyl sulfonates. 3,127,442, 3–31–64, Cl. 260—513.

Schenck, Leslie M., and J. H. Shown, to General Aniline & Film Corp. Process of preparing polymers from alkali metal salts of β-alkylisethionates. 3,130,184, 4–21–64, Cl. 260—79.3.
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Schenk, Richard F., E. A. Zackheim, and W. R. Heffernan, to Johnson & Johnson. Method of making composite container. 3,154,617, 10–27–64, Cl. 264—266.
Schenkel, Gerrit, and J. I. De Haan, to North American Philips Co., Inc. Electrodynamic microphone. 3,141,070, 7–14–64, Cl. 179—115.5.
Schenkengel, Emerich, to G. M. Pfaff AG. Arrangement in zig-zag sewing machines for sewing button holes automatically. 3,117,542, 1–14–64, Cl. 112—77.
Schenkengel, Emerich, to G. M. Pfaff, AG. Thread cutting device for sewing machines. 3,118,405, 1–21–64, Cl. 112—252.
Schenkengel, Emerich, to G. M. Pfaff, A.G. Lubricating means for sewing machine loopers. 3,146,745, 9–1–64, Cl. 112—256.
Schenkengel, Emerich, to G. M. Pfaff, AG. Needle positioning apparatus for power-driven sewing machines. 3,163,-138, 12–29–64, Cl. 112—219.
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Scherb, Rudolph R., to Western Electric Co., Inc. Test fixture for electrical components. 3,151,279, 9–29–64, Cl. 317—118.
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Scherbner, Paul J., to The Beryllium Corp. Method of liquid forming a copper-beryllium alloy. 3,133,843, 5–19–64, Cl. 148—3.
Scherenberg, Hans O., and J. Gassmann, to Daimler-Benz Aktiengesellschaft. Rotary piston engine construction. 3,131,945, 5–5–64, Cl. 277—215.
Scherenberg, Hans O., and J. Gassmann, to Daimler-Benz Aktiengesellschaft. Fuel-injection adjusting device. 3,138,-038, 6–23–64, Cl. 74—569.
Scherer, George F. Lubricating sealants. 3,118,838, 1–21–64, Cl. 252—15.
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Scherer, Lester G. Monorail system. 3,122,105, 2–25–64, Cl. 105—147.
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Scherer, Otto, K. Reichner, and H. Frensch, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Brüning. Method of selectively controlling plant growth. 3,130,037, 4–21–64, Cl. 71—2.6.
Scherer, Otto, H. Frensch, and G. Stähler, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Brüning. Pesticides for the protection of useful fishes. 3,157,571, 11–17–64, Cl. 167—31.
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Schick, Frederick A., to Allis-Chalmers Mfg. Co. Means for coupling transmission gears. 3,137,376, 6–16–64, Cl. 192—67.
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Schicke, Hans-Gerd, and G. Schrader, to Farbenfabriken Bayer Aktiengesellschaft. Thioacetamino-decarboxylic acid esters of phosphorus acids. 3,160,651, 12–8–64, Cl. 260—461.
Schickler, Edward R., to General Dynamics Corp. Turret-type tuner amplifier. 3,117,286, 1–7–64, Cl. 330—65.
Schieber, Hans, and P. Bindel. Vehicle traction chain. 3,133,582, 5–19–64, Cl. 152—233.
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Schiel, Gottlieb, Jr. Concrete roller-tamper. 3,119,314, 1–28–64, Cl. 94—50.
Schiel, Richard, to Schoeller-Bleckman Stahlwerke Aktiengesellschaft. Method of and apparatus for utilizing the formation energy of petroleum deposits. 3,161,593, 12–15–64, Cl. 233—21.
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Schilberg, Arnold G., deceased; (by I. G. Schilberg, administratrix), to A. O. Smith Corp. Construction for links and struts. 3,131,576, 5–5–64, Cl. 74—588.
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Schilberg, Arnold G., deceased, by I. G. Schilberg, to A. O. Smith Corp. Stamped steering knuckle and brake backing plate weldment. 3,147,026, 9–1–64, Cl. 280—96.2.
Schilberg, Arnold G., deceased, by I. G. Schilberg, special administratrix, to A. O. Smith Corp. Motor vehicle having increased ground clearance level floor space. 3,149,856, 9–22–64, Cl. 280—106.
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Schilling, Edward A., to Syncro Corp. Combined inductance-capacitance unit for permanent magnet alternator. 3,134,-038, 5–19–64, Cl. 310—156.
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Schilling, Paul K., to Plastics, Inc. Method of molding plastic articles. Re. 25,534, 3–10–64, Cl. 264—250.
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Schindler, Walter, to Geigy Chemical Corp. 5-substituted dibenz [b,f] azepine compounds. 3,133,068, 5–12–64, Cl. 260—268.
Schindler, Walter, and H. Blattner, to Geigy Chemical Corp. Substituted dibenz [b,f] azepine compounds. 3,130,191, 4–21–64, Cl. 260—239.

Schindler, Walter, and H. Blattner. 5H-dibenz[b,f]azepin-10(11H)-one compounds. 3,144,440, 8–11–64, Cl. 260—239.
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Schindler, Walter, and H. Blattner, to Geigy Chemical Corp. 5-basic-substituted-5H-dibenz[b,f]azepin-10(11H)-one compounds. 3,144,442, 8–11–64, Cl. 260—239.
Schindler, Walter, and H. Blattner, to Geigy Chemical Corp. 5-tertiary aminoalkyl-10-alkoxy-5H-dibenz b,f azepines. 3,144,443, 8–11–64, Cl. 260—239.
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Schlaegel, Gene A. Rotisserie wheel. 3,125,015, 3–17–64, Cl. 99—421.
Schlafly, Hubert J., Jr., to Teleprompter Corp. Subscription television distribution system with recording means at the receiver. 3,157,737, 11–17–64, Cl. 178—6.
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Schlage, Ernest L., to Schlage Lock Co. Combination strike and strike box. 3,152,825, 10–13–64, Cl. 292—340.
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Schlumbohm, Peter, deceased (F. J. Gorman, executor). Electric stove. 3,119,923, 1–28–64, Cl. 219—34.

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Schlumbohm, Peter, deceased; F. J. Gorman, executor. Electric fan with stand. 3,137,440, 6–16–64, Cl. 230—273.

Schlumbohm, Peter, deceased; F. J. Gorman, executor. Fan with evaporative cooling effect. 3,137,740, 6–16–64, Cl. 261—24.

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Luvisi, John P., and Schmerling. 3,121,753.
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Schmerling, Louis, and H. S. Bloch, to Universal Oil Products Co. Polyoxyalkylene glycol monoethers of aromatic amine derivatives of halocycloalkenes. 3,134,812, 5–26–64, Cl. 260—573.
Schmermund, Alfred. Device for the controlled feeding of cigarettes or similar rod-shaped articles. 3,127,971, 4–7–64, Cl. 193—14.
Schmermund, Alfred. Cutting machine. 3,144,063, 8–11–64, Cl. 146—117.
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Schmid, Heinrich, to Almatic A.G. Hydraulically controlled punch press. 3,119,292, 1–28–64, Cl. 83—124.
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Schmid, Hermann, to Link Division of General Precision, Inc. Hybrid integrator circuit. 3,152,249, 10–6–64, Cl. 235—183.
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Schmidt, Clarence J., to Goodyear Aerospace Corp. Random pattern radome structure. 3,154,887, 11–3–64, Cl. 50—52.
Schmidt, Clayton E., to Schmidt Mfg. Co. Loom picker. 3,125,129, 3–17–64, Cl. 139—160.
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Schmidt, Heinrich, to Roller Bearing Co. of America. Self contained cage for retaining bearing rollers. 3,163,477, 12–29–64, Cl. 308—217.
Schmidt, Helmut, J. W. Zimmermann, and K. Stetzelberg, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Brüning. Printing pastes, padding liquors and pigment dyeing process. 3,132,965, 5–12–64, Cl. 117—38.
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Schmidt, Karl-Heinz, R. Brodt, and K. Lampatzer, to Hooker Chemical Corp. Method of applying highly heat resistant protective coatings to metallic surfaces. 3,151,000, 9–29–64, Cl. 148—6.15.
Schmidt, Karl-Ludwig: *See*—
Peter, Julius, Schmidt, and Bartl. 3,130,175.
Schmidt, Karl O., to Schmidt Mettallwarenfabrik, Gebruder. Housing for traveling clocks. 3,162,997, 12–29–64, Cl. 58—56.

Schmidt, Lewis W., 16⅔% each to L. K. Schmidt, A. M. Jongeneel, L. W. Schmidt, C. A. Loucks; 10% each to G. C. Gordon, and E. F. Blackwelder; 8% to J. Newell; and 1⅓% each to P. F. H. and R. E. Holt, H. H. Shelton, F. A. and D. A. Guernsey. Foliage deflecting unit. 3,126,062, 3–24–64, Cl. 171—42.

Schmidt, Lewis W., 16⅔% to L. K. Schmidt, 16⅔% to A. M. Jongeneel, 10% to G. C. Gordon, 10% to E. F. Blackwelder, 16⅔% to L. W. Schmidt, 16⅔% to C. A. Loucks, 8⅓% to J. Newell, 1⅓% to P. G. Holt, 1⅓% to F. H. Holt, 1⅓% to R. E. Holt, 1⅓% to H. H. Shelton, 1⅓% to F. A. Guernsey, and 1⅓% to D. A. Guernsey. Endless chain drive unit. 3,130,791, 4–28–64, Cl. 171—53.

Schmidt, Lewis W., 16⅔% to L. K. Schmidt, 16⅔% to A. M. Jongeneel, 10% to G. C. Gordon, 10% to E. F. Blackwelder, 16⅔% to L. W. Schmidt, 16⅔% to C. A. Loucks, 8⅓% to J. Newell, and P. G., F. H. and R. E. Holt, H. H. Shelton, and F. A. and D. A. Guernsey (all 1⅓%). Pick-up wheel and stripper bar unit for beet harvesters. 3,144,083, 8–11–64, Cl. 171—39.

Schmidt, Lloyd K.: *See*—
Schmidt, Lewis W. 3,126,062.
Schmidt, Lewis W. 3,130,791.
Schmidt, Lewis W. 3,144,083.

Schmidt, Lothar M., to General Precision, Inc. Information storage and search system. 3,149,309, 9–15–64, Cl. 340—172.5.

Schmidt, Ludwig M., to Sperry Rand Corp. Actuator block for punch units. 3,127,100, 3–31–64, Cl. 234—115.

Schmidt Mfg. Co.: *See*—
Schmidt, Clayton E. 3,125,129.

Schmidt Mettallwarenfabrik, Gebruder: *See*—
Schmidt, Karl O. 3,162,997.

Schmidt, Otto, and E. Sirtl, to Siemens-Schuckertwerke Aktiengesellschaft. Pyrolytic method for precipitating silicon semiconductor material. 3,120,451, 2–4–64, Cl. 117—106.

Schmidt, Paul: *See*—
Druey, Jean, and Schmidt. 3,135,763.
Druey, Jean, Schmidt, Wilhelm, and Eichenberger. 3,118,940.
Sattler, Emil, and Schmidt. 3,131,231.

Schmidt, Paul, E. Schumacher, and M. Wilhelm, to Ciba Corp. 3-amino-4′ : 7′-phenanthroline [5′ : 6′-e]-1 : 2 : 4-triazines. 3,118,886, 1–21–64, Cl. 260—247.5.

Schmidt, Paul, K. Eichenberger, and M. Wilhelm, to Ciba Corp. New sulfonylureas. 3,157,700, 11–17–64, Cl. 260—553.

Schmidt, Paul A. Form-supporting structure for erecting concrete buildings. 3,140,524, 7–14–64, Cl. 25—131.

Schmidt, Raymond F., and L. A. Brueneman, to Avco Corp. Cross-linear polarization system. 3,162,828, 12–22–64, Cl. 333—6.

Schmidt, Richard. Adjusting and indicating device for the cams of circular knitting machines. 3,123,991, 3–10–64, Cl. 66—54.

Schmidt, Robert C., to Cummins Engine Co., Inc. Fuel control. 3,128,750, 4–14–64, Cl. 123—140.

Schmidt, Robert C., to Varian Associates. High frequency inductively tunable velocity modulation tube apparatus. 3,132,280, 5–5–64, Cl. 315—5.47.

Schmidt, Robert C., to Cummins Engine Co., Inc. Piston construction. 3,134,306, 5–26–64, Cl. 92—209.

Schmidt, Robert F., H. A. Leidecker, and D. G. Kirk, to Elgin Sweeper Co. Street sweeper dirt box assembly. 3,162,877, 12–29–64, Cl. 15—83.

Schmidt, Robert W., to Imac Corp. Method and apparatus for accurately filling liquid containers. 3,162,258, 12–22–64, Cl. 177—1.

Schmidt, Rolf: *See*—
Berger, Heinz, Schmidt, and Schnoring. 3,121,382.

Schmidt, Rose M., to Johnson & Johnson. Absorbent product. 3,138,159, 6–23–64, Cl. 128—285.

Schmidt, Rudolf B. Contour following crop pickup attachment for combines. 3,120,090, 2–4–64, Cl. 56—98.

Schmidt, Theodor, and J. Wünning, to Indugas, Gesellschaft fur Industrielle Gasverwendung m.b.H. Process and apparatus for producing conductive sheet material having low power losses. 3,163,201, 12–29–64, Cl. 153—86.

Schmidt, Theodor, and W. Litterscheidt, to Indugas, Gesellschaft fur industrielle Gasverwendung m.b.H. Burner for industrial furnaces and the like. 3,163,202, 12–29–64, Cl. 158—7.5.

Schmidt, Theodore W.: *See*—
Allred, Robert W., Clayton, and Schmidt. 3,161,374.

Schmidt, Walter: *See*—
Kapteyn, Paul, and Schmidt. 3,134,547.
Kronig, Walter, Tegtmeyer, and Schmidt. 3,118,007.

Schmidt, Walther: *See*—
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Schmidt, Werner: *See*—
Wommelsdorf, Fritz, and Schmidt. 3,119,311.
Wommelsdorf, Fritz, Zahn, and Schmidt. 3,139,353.

Schmidt, Werner, to Rissen G.m.b.H. Maschenenfabrik. Device adapted to be used in the production of conical paper cups. 3,157,096, 11–17–64, Cl. 93—39.3.

Schmidt, Wilhelm, to Rotavision G.m.b.H. Apparatus for producing luminous images which appear to float in space and are equally visible from any angle of view. 3,160,971. 12–15–64, Cl. 40—77.

Schmidt, Wilhelm G., and A. T. Bucknall, to Courtaulds Ltd. Purification of a spent thiocyanate solvent solution containing sulfate ions as impurities. 3,123,437, 3–3–64, Cl. 23—75.

Schmidt, William, M. G. Sutton, and C. M. Citron, to West Laboratories, Inc. Cleansing and sanitizing compositions for food handling equipment. 3,150,096, 9–22–64, Cl. 252—106.

Schmidt, William K. Process of making plastic pipes. 3,150,219, 9–22–64, Cl. 264—258.

Schmidt-Nickels, Wilhelm: *See*—
Randall, David I., and Schmidt-Nickels. 3,148,933.

Schmidt'Sche, Heissdampf-Gesellschaft m.b.H., Firma: *See*—
Vollhardt, Fromut. 3,144,080.

Schmidt-Thomee, Georg: *See*—
Goebel, Siebert, Haeberle, Zacher, and Schmidt-Thomee. 3,117,953.

Schmieder, Werner: *See*—
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Paxton, Elisha W. 3,160,692.

Schmieding, Warren H. F. Pepper-corn grinder. 3,130,926, 4–28–64, Cl. 241—168.

Schmieding, Warren H. F. Pepper-corn grinder. 3,130,927, 4–28–64, Cl. 241—168.

Schmiel, Herbert H., and H. J. Stacey, to Parker-Hannifin Corp. Remote power shift circuits for spool valves and the like. 3,160,174, 12–8–64, Cl. 137—625.63.

Schmitt, Adam. Cutter head for woodworking machines. 3,134,412, 5–26–64, Cl. 144—230.

Schmitt, Alois. Method of applying a coating to the surfaces of a heel. 3,125,774, 3–24–64, Cl. 12—147.

Schmitt, Arnold J., to Beloit Iron Works. Trailing blade coater blade loading mechanism. 3,128,207, 4–7–64, Cl. 118—126.

Schmitt, Arthur J., to The West Bend Co. Detachable handle. 3,157,909, 11–24–64, Cl. 16—114.

Schmitt, Edward E., to American Cyanamid Co. Bis[1,2,3,5-oxathiadiazole]2,2′-dioxides and methods for preparing the same. 3,118,902, 1–21–64, Cl. 260—306.7.

Schmitt, Edward E., to American Cyanamid Co. 2-oxo-1,2,3,5-oxathiadiazoles and methods for preparing the same. 3,118,-903, 1–21–64, Cl. 260—306.7.

Schmitt, Edward E., to American Cyanamid Co. Process for the preparation of N-carboxyglycine anhydride. 3,127,411, 3–31–64, Cl. 26—307.

Schmitt, Emil S., Jr.: *See*—
De Zubay, Egon A., and Schmitt. 3,159,999.

Schmitt, Jean, to Societe Alsacienne de Constructions Mecaniques. Means for preadjusting pattern frames for printing machines. 3,151,400, 10–6–64, Cl. 33—184.5.

Schmitt, Johannes: *See*—
Kohlmeyer, Ernst J., Schmitt, and Wittner. 3,116,997.
Kohlmeyer, Ernst J., Schmitt, and Wittner. 3,117,175.

Schmitt, John M., to United States of America, Atomic Energy Commission. Removal of hydrocarbon degradation products from organic solutions. 3,150,159, 9–22–64, Cl. 260—429.1.

Schmitt, Karl: *See*—
Ruschig, Heinrich, Schmitt, Ther, and Pfaff. 3,133,933.
Steinle, Walther, Schiwy, and Schmitt. 3,146,493.

Schmitt, Karl, J. Disteldorf, and H. J. Haage, to Hiberna-Chemie G.m.b.H. Process for the production of melamine using the electrical resistance heat generated in solid material in contact with urea. 3,122,541, 2–25–64, Cl. 260—249.7.

Schmitt, Karl, J. Disteldorf, and H. Haage, to Hiberna-Chemie G.m.b.H. Process for the production of melamine using the specific resistance heat of urea. 3,141,884, 7–21–64, Cl. 260—249.7.

Schmitt, Karl, I. Hennig, E. Lindner, and H. Ott, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius Bruning. New alkenic acid amides and process of preparing them. 3,151,158, 9–29–64, Cl. 260—562.

Schmitt, Leo J. Counterbalance for rotary spit. 3,143,003, 8–4–64, Cl. 74—573.

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Schmitt, Louis P., to Joslyn Mfg. and Supply Co. Receptacle and plug assemblies. 3,123,423, 3–3–64, Cl. 339—184.

Schmitt, Paul. Manufacture of ready-to-use cake of soap and like cleansing materials. 3,149,188, 9–15–64, Cl. 264—267.

Schmitt, Paul H. Go-no-go G-indicator. 3,136,293, 6–9–64, Cl. 116—114.

Schmitt, Regis V., to Lord Mfg. Co. Resilient mounting. 3,128,999, 4–14–64, Cl. 267—1.

Schmitt, Vernon R., to United States of America, Air Force. Dual flight control system. 3,120,787, 2–11–64, Cl. 91—28.

Schmitt, Walter u., Dr., G.m.b.H., Firma: *See*—
Rohm, Fritz. 3,141,761.

Schmitt, Wilhelm. Open hearth smelter system. 3,141,055, 7–14–64, Cl. 266—33.

Schmitter, A. Louise: *See*—
Schmitter, Walter P. 3,146,629.
Schmitter, Walter P. 3,149,499.
Schmitter, Walter P. 3,153,158.
Schmitter, Walter P., and Abendroth. 3,124,943.
Schmitter, Walter P., and Highsmith. 3,120,190.
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Schmitter, Walter P., deceased (A. L. Schmitter and R. V. Abendroth, co-executors), and G. V. Highsmith, to The Falk Corp. Gear pump. 3,120,190, 2–4–64, Cl. 103—117.
Schmitter, Walter P., deceased; by A. L. Schmitter and R. V. Abendroth, co-executors, to The Falk Corp. Coupling. 3,124,943, 3–17–64, Cl. 64—15.
Schmitter, Walter P., deceased, by L. Schmitter, and R. V. Abendroth, to The Falk Corp. High speed shaft mounted drive. 3,146,629, 9–1–64, Cl. 74—410.
Schmitter, Walter P., deceased (by A. L. Schmitter, and R. V. Abendroth, co-executors), E. J. Wellauer, and E. S. Cheaney, to The Falk Corp. Variable speed drive. 3,146,-633, 9–1–64, Cl. 74—472.
Schmitter, Walter P., deceased, by A. L. Schmitter and R. V. Abendroth, co-executors, to The Falk Corp. Pinion mount. 3,149,499, 9–22–64, Cl. 74—409.
Schmitter, Walter P., deceased (A. L. Schmitter and R. V. Abendroth, co-executors), to The Falk Corp. Thru-motor drive. 3,153,158, 10–13–64, Cl. 310—83.
Schmitt-Matzen, John G., to Gorman-Rupp Industries, Inc. Dishwasher recirculating assembly. 3,129,711, 4–21–64, Cl. 134—56.
Schmitt-Thomas, Karlheinz: *See*—
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Schmitz, Adolf, and A. Muhr, to Th. Goldschmidt, A.G. Method for preventing the growth of algae in swimming pools, tanks, and the like. 3,125,486, 3–17–64, Cl. 167—22.
Schmitz, Albert, and B. Bollee, to North American Philips Co., Inc. High-frequency tunnel diode circuit. 3,140,452, 7–7–64, Cl. 331—101.
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Schmitz, Ewald F., to Chicago Bridge & Iron Co. Integral end course for multilayer pressure vessels. 3,128,001, 4–7–64, Cl. 220—3.
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Gawlitza, Franz, Hontzsch, and Schmitz. 3,119,355.
Schmitz, Friedrich, to Hochdruck-Dichtungs-Fabrik Schmitz & Schulte. Slide valve with a valve element covered by a diaphragm. 3,160,389, 12–8–64, Cl. 251—327.
Schmitz, Harry W., to General Motors Corp. Hydraulically operated windshield wiper actuating mechanism. 3,128,-594, 4–14–64, Cl. 60—10.5.
Schmitz, Heinrich, to F. G. and S. H. Dobbs. Gas-fueled lighter. 3,143,871, 8–11–64, Cl. 67—7.1.
Schmitz, Josef. Twin-axle tracking assembly. 3,162,463, 12–22–64, Cl. 280—104.5.
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Dortmann, Heinz A., and Schmitz. 3,132,129.
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Schmitz, William D., to International Telephone and Telegraph Corp. Printed circuit card rack assembly. 3,129,-991, 4–21–64, Cl. 339—17.
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Schmohl, Leland H., to Parker-Hannifin Corp. Flareless tube coupling. 3,120,969, 2–11–64, Cl. 285—341.
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Schmuck, Peter, to Contina Bureaux-und Rechermaschinenfabrik Aktiengesellschaft. Camera, preferably motion picture camera. 3,130,657, 4–28–64, Cl. 95—10.
Schmuck, Peter. Motion picture camera control mechanism. 3,141,373, 7–21–64, Cl. 88—17.
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Okawaki, William N., and Schmunk. 3,123,155.
Schmutz, Jean, and F. Humziker, to Dr. A. Wander, S.A. 5-basic substituted-5-dibenzo-[b,e][1,4]-diazepines. 3,129,-216, 4–14–64, Cl. 260—239.
Schmutz, Jean, and F. Hunziker, to Dr. A. Wander, S.A. 5-(basic substituted)-10,11-dihydro-11-oxo-5H-dibenzo[b,e][1,4]diazepine compounds. 3,150,125, 9–22–64, Cl. 260—239.3.
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Schnable, George L., to Philco Corp. Method for introducing an activator impurity substance into a portion of a body of crystalline semi-conductive material and for bonding a lead member to said portion. 3,154,437, 10–27–64, Cl. 148—1.5.
Schnachner, Max H. Refrigerated container having primary and secondary cooling circuits. 3,159,982, 12–8–64, Cl. 62—175.
Schnacke, Richard N., to Olin Mathieson Chemical Corp. Ingot. 3,140,926, 7–14–64, Cl. 29—184.
Schnädelbach, Martin, to Siemens & Halske Aktiengesellschaft. Multi-stage frequency conversion transmitter adapted for tuning within an extended frequency range. 3,146,398, 8–25–64, Cl. 325—134.
Schneble, Frederick W., Jr., J. F. McCormack, R. J. Zeblisky, and J. Polichette, to Day Co., N.V. Method of making printed circuits. 3,146,125, 8–25–64, Cl. 117—212.
Schneck, Erich: *See*—
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Schneck, Lawrence H.: *See*—
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Schneider, Abraham, to Sun Oil Co. Reaction of tricyclic perhydroaromatic hydrocarbons. 3,128,316, 4–7–64, Cl. 260—666.
Schneider, Abraham, to Sun Oil Co. Lubricating oil. 3,129,-183, 4–14–64, Cl. 252—59.
Schneider, Abraham, to Sun Oil Co. Reaction of methylcyclopentane and mixed C_4 hydrocarbons. 3,130,239, 4–21–64, Cl. 260—666.
Schneider, Abraham, to Sun Oil Co. Hydrogenation of olefinic polymers. 3,155,740, 11–3–64, Cl. 260—683.9.
Schneider, Abraham, and E. J. Janoski, to Sun Oil Co. Removal of thiophene from benzene. 3,148,226, 9–8–64, Cl. 260—674.
Schneider, Albert W.: *See*—
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Schneider, Charles G.: *See*—
Rice, Owen, Schneider, and Swartz. 3,139,184.
Schneider, Charles G., and W. E. Swartz, to Calgon Corp. Pneumatic memory device. 3,139,111, 6–30–64, Cl. 137—624.18.
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Schneider, Edgar R., to Fuel Controls Corp. Float arm operated valve. 3,120,242, 2–4–64, Cl. 137—437.
Schneider, Edwin F.: *See*—
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Schneider, Edwin H. Airfoil construction. 3,139,247, 6–30–64, Cl. 244—41.
Schneider, Emmor V., to Consolidated Electronics Industries. Remote control system for positioning a motor driven load. 3,126,506, 3–24–64, Cl. 318—28.
Schneider, Emmor V., to Alliance Mfg. Co., The Division of Consolidated Electronics Industries Corp. Rotor and shaft assembly method. 3,141,233, 7–21–64, Cl. 29—155.53
Schneider, Fred, and F. T. Miller, to United Merchants and Manufacturers, Inc. Stripe coating apparatus. 3,155,538, 11–3–64, Cl. 118—2.
Schneider, Fred J.: *See*—
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Schneider, Hans-Dieter, to Fernseh G.m.b.H. Arrangement for the compensation of spurious voltages in image pickup tubes of the vidicon type. 3,124,716, 3–10–64, Cl. 315—10.
Schneider, Harold G.: *See*—
Harmon, James R., and Schneider. 3,129,994.
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Schneider, Heinz, to Siemens-Schuckertwerke Aktiengesellschaft. Dry rectifier of small type. 3,118,093, 1–14–64, Cl. 317—234.
Schneider, Henry C., H. F. Shannon, and E. B. Stanley, to United States Steel Corp. Method of producing grain-oriented silicon steel. 3,125,473, 3–17–64, Cl. 148—111.
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Schneider, John, and J. Poulin. Dressing tool for poultry or the like. 3,147,513, 9–8–64, Cl. 17—11.
Schneider, John F., Jr. Apparatus for feeding shank buttons to an attaching station. 3,123,251, 3–3–64, Cl. 221—156.
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Schneider, Michael, to Seasonmaster, Inc. Window sash latch construction. 3,129,470, 4–21–64, Cl. 20—52.
Schneider, Philip, and P. E. Helsel. Watering device. 3,121,535, 2–18–64, Cl. 239—155.
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Schneider, Raymond C., to Twin Disc Clutch Co. Hydraulic torque converter. 3.125,857, 3–24–64, Cl. 60—54.
Schneider, Raymond C., to Twin Disc Clutch Co. Hydraulic coupling. 3,145,535, 8–25–64, Cl. 60—54.
Schneider, Reinhard. Apparatus for the indication and measurement of nuclear radiation. 3,144,558, 8–11–64, Cl. 250—83.6.
Schneider, Richard A., to Shell Oil Co. Cooling of bed reactors. 3,156,538, 11–10–64, Cl. 23—288.
Schneider, Robert A., to Certain-Teed Products Corp. Asbestos cement water-laid products characterized by an equal longitudinal to transverse strength ratio. 3,120,465, 2–4–64, Cl. 162—118.
Schneider, Robert E. Hook-on sharpening attachment. 3,149,444, 9–22–64, Cl. 51—249.
Schnieder, Stanley, to Burroughs Corp. Cooling of modular electrical network assemblies. 3,141,999, 7–21–64, Cl. 317—100.
Schneider, William P.: *See*—
Birkenmeyer, Robert D., Kagan, Magerlein, and Schneider. 3,137,712.
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Schneider, William P., to Schlumberger Well Surveying Corp. Apparatus for investigating earth formations having an electrode system and coil system on the same support member. 3,124,742, 3–10–64, Cl. 324—1.
Schneiderman, Daniel I. Radio beacon sensing means of navigation. 3,119,108, 1–21–64, Cl. 343—115.
Schneiderman, Joseph. Safety razor with edge positioning means. 3,121,286, 2–18–64, Cl. 30—34.
Schneiter, Ali, to Ebauches S.A. Clock or watch having an electric contact controlled by the movement. 3,131,267, 4–28–64, Cl. 200—38.
Schnekenburger, Emil, to A. Zahoransky. Brush stuffing machines. 3,128,126, 4–7–64, Cl. 300—7.
Schnell, Carl, ½ to The Griffith Laboratories, Inc. Self-adjusting blade for comminuting machine. 3,147,785, 9–8–64, Cl. 146—192.
Schnell, Carl, ½ to Griffith Laboratories, Inc. Comminuting machine having venturi ring. 3,149,653, 9–22–64, Cl. 146—192.
Schnell, Herman: *See*—
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Ossenbrunner, Armin, Schnell, Klockgether, Geiger, and Freier. 3,148,986.
Schnell, Hermann, and W. Schulte-Huermann, to Farbenfabriken Bayer Aktiengesellschaft. Linear polyesters of compounds containing up to two alkenyl groups substituted on a benzene nucleus, and mixtures thereof with a vinyl compound. 3,124,554, 3–10–64, Cl. 260—45.5.
Schnell, Hermann, L. Bottenbruch, H. Krimm, and G. Fritz, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of polycarbonates. 3,136,741, 6–9–64, Cl. 260—47.
Schnell, Hermann, U. Veiel, and L. Bottenbruch, to Farbenfabriken Bayer Aktiengesellschaft. Process for the alteration of the physical and chemical properties of polycarbonates. 3,150,066, 9–22–64, Cl. 204—154.
Schnell, Solomon S. Automatic equipment control. 3,126,536, 3–24–64, Cl. 340—213.
Schnell, Steve: *See*—
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Gold, Robert L., and Schnell. 3,118,708.
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Jeschke, Willi. 3,134,322.
Schnepfe, Robert W., Jr., to Aircraft Armaments, Inc. Fittings for low energy detonating cord. 3,129,663, 4–21–64, Cl. 102—27.
Schnettker, Wilhelm, and R. Schneider, to Schloemann Aktiengesellschaft. Extrusion presses with means for measuring and regulating the exit speed of the extruded product. 3,157,281, 11–17–64, Cl. 207—1.
Schnettler, Jerome L.: *See*—
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Schnier, Robert F. Bottle closure. 3,128,896, 4–14–64, Cl. 215—48.
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Schniers, Robert C., and D. L. Van Ostrom, to General Motors Corp. Boiling point anticipator for effecting warning signal. 3,161,740, 12–15–64, Cl. 200—81.
Schnitzer, Anton M.: *See*—
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Schnitzer, Anton M., to Phillips Petroleum Co. N-heterocyclic sulfides, sulfoxides, sulfones, and N-oxides of said sulfoxides and sulfones. 3,121,725, 2–18–64, Cl. 260—294.8.
Schnitzer, Emanuel, to United States of America, National Aeronautics and Space Administration. Manned space station. 3,144,219, 8–11–64, Cl. 244—1.
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Schnizer, Arthur W.: *See*—
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Schnoor, Walter G., and A. W. Yodis, to Allied Chemical Corp. Stabilization of liquid sulfur trioxide. 3,160,474, 12–8–64, Cl. 23—174.
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Schoberg, Borje L. Detachable apparatus for cleaning hollows by blowing. 3,117,726, 1–14–64, Cl. 239—291.
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Schoder, Eduard J., to Hesser, Fr., Maschinenfabrik-Aktiengesellschaft, Firma. Wrapping machine. 3,127,722, 4–7–64, Cl. 53—230.
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Schoeffler, Williams A., 50% to M. Schoeffler. Trailer hitch. 3,117,805, 1–14–64, Cl. 280—491.
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Schoeller-Bleckman Stahlwerke Aktiengesellschaft: *See*—
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Schoenauer, Wolfgang, and F. Benguerel, to Sandoz Ltd. Anthraquinone dyes containing reactive groups. 3,134,785, 5–26–64, Cl. 260—309.7.
Schoeneberg, Carl W., to Automatic Devices, Inc. Panel hanger. 3,126,575, 3–31–64, Cl. 16—87.
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Schoenfeld, Sam, to Weifield Mannikin Co. Mannikin with adjustable head. 3,135,444, 6–2–64, Cl. 223—66.
Schoenike, Edgar O., to Collins Radio Co. Variable reactance attenuation network controlled by control voltage. 3,135,934, 6–2–64, Cl. 333—81.
Schoenike, John. Collapsible ice shelter. 3,157,185, 11–17–64, Cl. 135—4.
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Schoenrock, Kenneth H., to Hamilton Watch Co. Contact index system for an electric watch. 3,151,440, 10–6–64, Cl. 58—28.

Schoenwald, Alexander, to P. Wall Mfg. Co. Electric heated soldering iron. 3,121,781, 2–18–64, Cl. 219—26.
Schoenwald, Alexander, to P. Wall Mfg. Co. Battery powered electric soldering iron. 3,141,087, 7–14–64, Cl. 219—233.
Schoenwald, Alexander, to P. Wall Mfg. Co. Battery powered electric soldering iron. 3,141,956, 7–21–64, Cl. 219—233.
Schoenewaldt, Erwin F., A. E. Erickson, and J. M. Chemerda, to Merck & Co., Inc. Process for preparing sulfonamide compounds. 3,161,675, 12–15–64, Cl. 260—543.
Schoep, Dick: *See*—
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Schoepke, Hollis G., and J. H. Short, to Abbott Laboratories. Method of lowering blood pressure with 4-(2-amino-4-pyrimidylamino)-benzenesulfonamide. 3,159,547, 12–1–64, Cl. 167—51.5.
Schoeppe, Fred C., and E. W. Baumgardner, to Union Carbide Corp. Heavy duty deferred action gas depolarized dry battery. 3,138,489, 6–23–64, Cl. 136—86.
Schoeppell, Ray, deceased; B. Beare, executrix, by degree of distribution to B. and E. Beare, jointly. Method and apparatus for tool grinding. 3,117,399, 1–14–64, Cl. 51—123.
Schöfer, Rudolf, W. Heywang, and E. Fenner, to Siemens & Halske Aktiengesellschaft. Circuit arrangement for automatically stabilizing the temperature of an electrical heating appliance. 3,148,271, 9–8–64, Cl. 219—504.
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Schofield, William F., to Pratt & Whitney Co., Inc. Adjustable chuck jaw. 3,135,523, 6–2–64, Cl. 279—123.
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Schohan, George, to United States of America, Navy. Magnetic voltage regulator. 3,122,699, 2–25–64, Cl. 323—83.
Schohl, John L. Culinary implement. 3,121,952, 2–25–64, Cl. 30—331.
Scholander, Axel F., to Rosenblads Patenter, Aktiebolaget. Method in evaporation and burning of waste sulphite liquor. 3,132,923, 5–12–64, Cl. 23—122.
Schold, George R. Apparatus and method for dispersing finely divided solid particles in a vehicle. 3,135,474, 6–2–64, Cl. 241—21.
Scholfield, Charles R., J. C. Cowan, and J. P. Friedrich, to United States of America, Agriculture. Linolenate-derived cyclic monomer fraction. 3,119,850, 1–28–64, Cl. 260—405.6.
Scholfield, Richard P., and T. F. Donovan, to Wheeldex Mfg. Co., Inc. Filing apparatus. 3,147,849, 9–8–64, Cl. 198—158.
Scholin, Harold W. Decelerating device. 3,142,362, 7–28–64, Cl. 188—96.
Scholin, Harold W. Precision locking devices. 3,153,466, 10–20–64, Cl. 188—69.
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Emerson, William D. 3,131,701.
Johnston, John. 3,152,692.
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Tennant, Wilfred. 3,143,434.
Turkewitsch, William. 3,161,566.
Scholl, William M. Flexible stocking-like slipper. 3,120,711, 2–11–64, Cl. 36—9.
Scholl, William M. Digit protector. 3,132,648, 5–12–64, Cl. 128—153.
Scholl, William M. Shank and heel assembly. 3,134,381, 5–26–64, Cl. 128—590.
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Roak, Vernon J., and Scholle. 3,138,293.
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Scholte, Joannes W. A., to North American Philips Co., Inc. Zone-melting method and apparatus. 3,121,619, 2–18–64, Cl. 23—301.
Scholtes, Albert J. Picking spindle for cotton picker. 3,142,-143. 7–28–64, Cl. 56—50.
Scholtz, Arthur P., to National Can Corp. Can machine and method. 3,133,669, 5–19–64, Cl. 220—97.
Scholtz, Arthur P., to National Can Corp. Container. 3,147,879, 9–8–64, Cl. 220—29.
Scholtz, Arthur P., to National Can Corp. Secondary closure. 3,149,743, 9–22–64, Cl. 220—29.
Scholtz, Arthur P., to National Can Corp. Can machine and method. 3,156,374, 11–10–64, Cl. 220—29.
Scholtz, Arthur P., to National Can Corp. Container with openings and handle attached at openings. 3,159,320, 12–1–64, Cl. 222—468.
Scholtz, Arthur P., and A. M. Koblish, to National Can Corp. Can making apparatus and method. 3,148,648, 9–15–64, Cl. 113—97.
Scholz, Paul. Abrasive surfaced glove. 3,151,333, 10–6–64, Cl. 2—161.
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Schonberg, Russell G., to Varian Associates. "Q"-reducing circuit stabilizing peak charging voltage of pulse forming network employing controlled resonant charging inductor. 3,119,968, 1–28–64, Cl. 328—67.
Schonberg, Russell G., C. S. Nunan, and L. E. Brown, to Varian Associates. Apparatus for the irradiation of materials with a pulsed strip beam of electrons. 3,144,552, 8–11–64, Cl. 250—49.5.
Schönborn, Wolfgang, and G. Dörfel, to VEB Vakutronik. Temperature compensated gauging apparatus. 3,148,278, 9–8–64, Cl. 250—83.3.
Schönenberger, Max, and G. Erbach, to Behringwerke Aktiengesellschaft. Process and apparatus for the purification of high molecular solutions. 3,148,141, 9–8–64, Cl. 210—22.
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Schoning, Rudolf, to Siemens-Schuckertwerke Aktiengesellschaft. Electric spinning-pot motor. 3,158,767, 11–24–64, Cl. 310—75.
Schonwald, Siegfried, to Siemens-Schuckertwerke Aktiengesellschaft. Spinning-pot motor. 3,158,768, 11–24–64, Cl. 310—157.
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Schooler, Nathan. Metal panel wall construction for a bathtub compartment. 3,158,237, 11–24–64, Cl. 189—85.
Schooley, Marvin R. Bite signal for fishing rods. 3,143,822, 8–11–64, Cl. 43—17.
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Schools for Industrial Education of Newark, New Jersey, administering Newark College of Engineering, Board of Trustees of: *See*—
Ram, Gerson L., and Salamon. 3,135,816.
Schoonover, Herman G., 50% to C. W. Duvall. Portable pressure attachment for power drills. 3,122,032, 2–25–64, Cl. 77—59.
Schoos, Maurice A., to Kenney Mfg. Co. Ball bearing assembly and loading apparatus. 3,116,543, 1–7–64, Cl. 29—201.
Schoot, Cornelis J., M. J. Koopmans, and B. G. van den Bos, to North American Philips Co., Inc. Bis(dimethylamido) pentachlorophenyl fungicidal compositions. 3,157,568, 11–17–64, Cl. 167—30.
Schopf, Clemens, and R. Klug, to E. Merck, Aktiengesellschaft. Preparation of quinolizine derivatives. 3,132,147, 5–5–64, Cl. 260—28.
Schoppa, Norbert J. R. Litter bag dispenser. 3,162,305, 12–22–64, Cl. 206—57.
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Schoppe, Fritz, to Metallbau Semler, G.m.b.H. Apparatus for the physical and/or chemical treatment of granular solids or fine dusts. 3,140,862, 7–14–64, Cl. 263—21.
Schordine, Fred J. Hot and cold air conditioners. 3,143,864, 8–11–64, Cl. 62—325.
Schornstheimer, Robert E., and T. R. Rohrer, to The B. F. Goodrich Co. Magnetic gasket. 3,119,158, 1–28–64, Cl. 20—69.
Schornstheimer, Robert E., and T. R. Rohrer, to The B. F. Goodrich Co. Method of making magnetic gaskets. 3,159,-517, 12–1–64, Cl. 156—250.
Schorre, Gustav, to E. Marke Aktiengesellschaft. Process for the production of pyridoxal-5′-orthophosphoric acid ester. 3,124,587, 3–10–64, Cl. 260—296.
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Schory, Herbert S., and D. A. Doersch. Automatic time transmitter. 3,144,509, 8–11–64, Cl. 178—2.

Schotsman, Jan, to Emailleerfabriek De Ijsel, N.V. Liquid fuel combustion apparatus with previous vaporization. 3,152,634, 10–13–64, Cl. 158—71.

Schott, Andrew F. Educational tool adapted to facilitate teaching the arithmetic of fractions. 3,136,076, 6–9–64, Cl. 35—31.

Schott, Andrew F. Abacus. 3,151,404, 10–6–64, Cl. 35—33.

Schott, Charles W., to Union Carbide Corp. Methods and apparatus for producing sized spherical particles. 3,148,-045, 9–8–64, Cl. 65—21.

Schott, Jenaer Glaswerk, & Gen.: *See*—
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Schott, Lawrence A. Abdominal restrainer. 3,145,710, 8–25–64, Cl. 128—100.

Schott, Lawrence A., ½ to Charles A. Raleigh. Means for filling a frankfurter with a strip of cheese. 3,161,154, 12–15–64, Cl. 107—1.

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Schott, Warren B., to L. J. Barwood Mfg. Co., Inc. Machine for assembling fastener units. 3,138,286, 6–23–64, Cl. 221—10.

Schottler, Henry. Smoking pipes. 3,147,756, 9–8–64, Cl. 131—186.

Schotz, Otto W. Portable lamp. 3,124,306, 3–10–64, Cl. 240—10.63.

Schou, Carl E., to Rockwell-Standard Corp. Selector valve. 3,128,793, 4–14–64, Cl. 137—625.23.

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Schoutissen, Josephus A. A. Device for applying by means of two rollers a pasty mass in a uniform layer on slices of bread or the like. 3,137,591, 6–16–64, Cl. 118—13.

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Schrader, Carlton F., to Inland Steel Co. Soft, ductile, galvanized material. 3,149,928, 9–22–64, Cl. 29—196.5.

Schrader, Clarence O., to Technicolor Corp. of America. Cartridge motion picture projector. 3,139,789, 7–7–64, Cl. 88—18.7.

Schrader, Clifford E., to Scovill Mfg. Co. Multi-position switch for electric appliances. 3,126,462, 3–24–64, Cl. 200—77.

Schrader, Dale L., and B. K. Gregory, to American Metal Climax, Inc. Process of converting potassium chloride fines into a relatively coarse granular product by compaction. 3,135,473, 6–2–64, Cl. 241—3.

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Schicke, Hans-Gerd, and Schrader. 3,160,651.
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Schrader, Gerhard, to Farbenfabriken Bayer Aktiengesellschaft. (Thiono)-thiolphosphonic-and-thiolphosphinic acid esters and a process for their production. 3,121,662, 2–18–64, Cl. 167—22.

Schrader, Gerhard, to Farbenfabriken Bayer Aktiengesellschaft. Thiophosphonic acid esters. 3,150,162, 9–22–64, Cl. 260—461.

Schrader, Gerhard, to Farbenfabriken Bayer Aktiengesellschaft. Synergistic mixture of parathion and its orthoisomer. 3,155,570, 11–3–64, Cl. 167—30.

Schrader, Gerhard, and H. Schlör, to Farbenfabriken Bayer Aktiengesellschaft. Phosphonic and phosphinic acid esters of α- and β-naphthols and processes for their production. 3,151,146, 9–29–64, Cl. 260—461.

Schrader, Loren E., to Ironrite, Inc. Ironing machine operating mechanism. 3,134,181, 5–26–64, Cl. 38—59.

Schrader, Loren E., and L. C. Campbell, to Ironrite, Inc. Ironing machine. 3,118,241, 1–21–64, Cl. 38—59.

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Schrag, Manfred: *See*—
Kugel, Fritz, and Schrag. 3,163,126.

Schraith, Edward F., and H. A. Van Dusen, Jr., to McGraw-Edison Co. Controlled cooled gaseous discharge luminaire. 3,163,366, 12–29–64, Cl. 240—51.11.

Schraivogel, Rainer. Arrangement for converting a control potential into pulse-width-modulated rectangular impulses. 3,136,961, 6–9–64, Cl. 332—15.

Schram, Cornelius J.: *See*—
Hay, Donald I., Schram, and Wagg. 3,151,028.

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Schramel, Franz J., and W. F. Brok, to North American Philips Co., Inc. Binary code conversion. 3,123,816, 3–3–64, Cl. 340—347.

Schramm, Arthur G., to Allison Steel Mfg. Co. Mobile vehicle for transporting the scale for weighing loaded trucks operative on highways. 3,135,401, 6–2–64, Cl. 214—85.

Schramm, Chris. Teaching aid. 3,133,358, 5–19–64, Cl. 35—31.

Schramm, Harold J., and A. N. Gustafson, to Schramm, Inc. Method for drilling bore holes. 3,130,798, 4–28–64, Cl. 175—69.

Schramm, Harry B.: *See*—
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Schramm, Josephine: *See*—
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Schranz, Peter, to Landis & Gyr, A.G. Method and device for continuous measurement of radioactivity of substances contained in a liquid. 3,134,018, 5–19–64, Cl. 250—43.5.

Schraufstätter, Ernst, and R. Gönnert, to Farbenfabriken Bayer Aktiengesellschaft. Gastropod combating salicylanilides. 3,147,300, 9–1–64, Cl. 260—479.

Schray, Walter H., to United Steel & Wire Co. Dairy cases. 3,138,281, 6–23–64, Cl. 220—19.

Schrecongost, Ray B., to Hammond Organ Co. Transistor oscillator having two regenerative feedback paths. 3,150,-328, 9–22–64, Cl. 331—109.

Schrecongost, Ray B., and R. C. Carlson, to Admiral Corp. Power transmission mechanism. 3,145,581, 8–25–64, Cl 74—472.

Schrecongost, Richard K., and J. A. Jannenga, to Greenlee Bros., & Co. Flow control valve. 3,159,375, 12–1–64, Cl. 251—31.

Schreffler, Robert Z. Navigational guide apparatus and method. 3,136,999, 6–9–64, Cl. 343—112.

Schreiber, Carl W., to Owens-Illinois Glass Co. Universal automatic ware loading machine. 3,127,210, 3–31–64, Cl. 294—16.

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Schreiber, Franz, and H. Kumpf, to Siemens-Schuckertwerke Aktiengesellschaft. Electromagnetic linear motor. 3,162,-796, 12–22–64, Cl. 318—135.

Schreiber, Gus. Low flow hydraulic systems such as automotive braking mechanisms. 3,118,280, 1–21–64, Cl. 60—54.5.

Schreiber, Gus. Internal combustion engines. 3,124,112, 3–10–64, Cl. 123—48.

Schreiber, Gus. Internal combustion engines. 3,150,647, 9–29–64, Cl. 123—48.

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Koistinen, George E., and Schreiber. 3,157,159.

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Schreier, Wilford R., to Hammond Organ Co. Reverberation unit assembly. 3,150,335, 9–22–64, Cl. 333—30.

Schreier, Wilheim, to P. Fanghanel and Co. Ltd. Convertible chairs. 3,128,123, 4–7–64, Cl. 297—118.

Schreiner, Earl F., to I.C.E.D. Inc. Internal combustion engine driven heat pump. 3,139,924, 7–7–64, Cl. 165—29.

Schreiner, Horst, and A. Lehmann, to Siemens-Schuckertwerke Aktiengesellschaft. Sintered electric contact of high contact-fusing resistance. 3,143,626, 8–4–64, Cl. 200—166.

Schreiner, Kenneth E., to International Business Machines Corp. Unidirectional traveling wave parametric circuits using resonant sections. 3,131,358, 4–28–64, Cl. 330—4.6.

Schreiner, Norval P. Sofa bed. 3,130,423, 4–28–64, Cl. 5—48.

Schreiner, Robert J., to General Electric Co. False error prevention circuit. 3,119,980, 1–28–64, Cl. 340—146.3.

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Schremp, Frederic W., and J. F. Chittum, to California Research Corp. Composition and method for inhibiting corrosion in oil wells. 3,127,932, 4–7–64, Cl. 166—1.

Schrempp, Ernst, to Pitney-Bowes, Inc. Inking control means for printing devices. 3,143,963, 8–11–64, Cl. 101—351.

Schrenk, Gotthilf, and H. Krappatsch, to P. Gossen & Co., G.m.b.H. Photosensitive light control system. 3,123,724, 3–3–64, Cl. 250—217.

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Schrenk, Walter J., K. J. Cleereman, and T. Alfrey, Jr., to The Dow Chemical Co. Counter-rotation continuous shear mixer. 3,127,152, 3–31–64, Cl. 259—6.

Schrenk, Walter J., K. J. Cleereman, and T. Alfrey, Jr., to The Dow Chemical Co. Method of mixing plastics and apparatus therefor. 3,130,959, 4–28–64, Cl. 259—6.

Schrenk, Walter J., D. S. Chisholm, and T. Alfrey, Jr., to The Dow Chemical Co. Method and apparatus for mixing a plurality of viscous fluids. 3,131,910, 5–5–64, Cl. 259—3.

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Skomoroski, Robert M., and Schriesheim. 3,123,550.
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Schrode, Hans, H. Grotjahn, and K. Heuer, to American Enka Corp. Method for preparing synthetic tire cord fabric. 3,129,129, 4–14–64, Cl. 156—161.
Schroder, Hubert, and R. Kaufmann, to Jenaer Glaswerk Schott & Gen. Filler and material with an artificial pearly gloss and method of producing the same. 3,138,475, 6–23–64, Cl. 106—291.
Schröder, Rolf, and A. Winkler, to Agfa Aktiengesellschaft. Controls for a reversible electric motor of a camera. 3,126,805, 3–31–64, Cl. 95—31.
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Schrodt, Rudolf, to Reimers-Getriebe K.G. Device for feeding pressure fluids from a stationary bearing cover into the outer end of a rotating shaft. 3,129,960, 4–21–64, Cl. 285—95.
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Schroeder, Carl E., to Continental Oil Co. Method and apparatus for obtaining work from a compressed gas. 3,118,-286, 1–21–64, Cl. 62—3.
Schroeder, Carl E., to Continental Oil Co. Method for joining certain metals which spontaneously react with atmospheric elements. 3,153,716, 10–20–64, Cl. 219—9.5.
Schroeder, David W., 8% to L. W. and E. K. Rogers, and 2% to P. O. and D. C. Johnson. Process and apparatus for the conversion of hydrochloric acid to chlorine. 3,119,-757, 1–28–64, Cl. 204—128.
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Schroeder, Elmer F., to G. D. Searle & Co. 4,6-dialkyl-5,7-diketothiazolo [4,5-] pyrimidine-2-carboxylic acid and derivatives thereof. 3,155,665, 11–3–64, Cl. 260—256.5.
Schroeder, Elmer F., to G. D. Searle & Co. 1,2,3,4-tetrahydro-2,4-pteridinediones and intermediates. 3,162,635, 12–22–64, Cl. 260—251.5.
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Cruise, John H., and Schroeder. 3,119,440.
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Schroeder, Manfred R., to Bell Telephone Laboratories, Inc. Nonsynchronous time-frequency multiplex transmission system. 3,160,711, 12–8–64, Cl. 179—15.
Schroeder, Ralph R., and P. R. Wunz, Jr., to Callery Chemical Co. Method for the alkylation of decaborane. 3,124,616, 3–0–64, Cl. 260—606.5.
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Schroeder, Robert C., and D. D. Wood, to Sparton Corp. Cross member assembly. 3,137,248, 6–16–64, Cl. 105—369.
Schroeder, Walter, to The Cincinnati Milling Machine Co. Milling machine knee and saddle retraction mechanism. 3,120,786, 2–11–64, Cl. 90—58.
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Schroeder, Walter, to The Cincinnati Milling Machine Co. Arbor support bushing for a machine tool. 3,155,006, 11–3–64, Cl. 90—20.5.
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Schroeder, Wilburn C., L. G. Stevenson, and T. G. Stephenson, to Fossil Fuels, Inc. Hydrogenation of coal. 3,152,063, 10–6–64, Cl. 208—10.
Schroeder, William, to The Upjohn Co. Porfiramine and method of production. 3,148,117, 9–8–64, Cl. 167—65.
Schroeder, William A., Jr. Locking strip for panels. 3,143,-195, 8–4–64, Cl. 189—36.
Schroeder, William, C. Lewis, H. Hoeksema, T. E. Eble, and B. Bannister, to The Upjohn Co. 6-amino-9-D-psicofuranosylpurine derivatives and process therefor. 3,125,567, 3–17–64, Cl. 260—211.5.
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Schroedter, Willburt W., to Combustion Engineering, Inc. Furnace wall arrangement. 3,135,243, 6–2–64, Cl. 122—235.
Schroedter, Willburt W., to Combustion Engineering, Inc. Recirculation system for steam generator. 3,135,252, 6–2–64, Cl. 122—406.
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Schroeter, Louis C., to The Upjohn Co. Apparatus for automatically determining ultraviolet absorbance in a system. 3,152,251, 10–6–64, Cl. 250—43.5.
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Schroll, Gene E., to Ethyl Corp. Method for combating weeds. 3,142,555, 7–28–64, Cl. 71—2.3.
Schropp, Alfred, ½ to A. Grub. Illuminated panel. 3,131,496, 5–5–64, Cl. 40—130.
Schrot, Ernest H., to Admiral Corp. Method of manufacturing a radio frequency coil. 3,153,841, 10–27–64, Cl. 29—155.57.
Schroter, Albert R., H. R. Bojens, and J. G. Kise, to United States of America, Navy. Missile stage separator. 3,139,-031, 6–30–64, Cl. 102—49.
Schroter, Fritz, to Telefunken Aktiengesellschaft. Signal recording system and method. 3,121,872, 2–18–64, Cl. 346—74.
Schröter, Kurt, and B. Walterscheid-Müller, to Jean Walterscheid, Kommanditgesellschaft. Overload clutch. 3,118,-292, 1–21–64, Cl. 64—30.
Schroth, Norman D. Adapter for securing accenaries to a camera adapter. 3,149,549, 9–22–64, Cl. 95—86.
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Schubert, Karl, to Firma Rheinmetall G.m.b.H. Turntable or indexing table, in particular for indexing attachments. 3,139,773, 7–7–64, Cl. 74—824.
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Schuller, Kurt, and H. J. Schwerdhofer, to Fichtel & Sachs A.G. Three-speed wheel hub with splined ratchet control sleeve. 3,122,226, 2–25–64, Cl. 192—6.

Schuller, Walter H., and L. C. Beegle, to American Cyanamid Co. Compositions containing a plurality of amine groups. 3,122,526, 2–25–64, Cl. 260—88.7.

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Schultz, Harold B., to The Bendix Corp. Servomotor actuating means. 3,152,449, 10–13–64, Cl. 60—54.5.
Schultz, Harold W., to General Motors Corp. Clutch plate facing. 3,141,814, 7–21–64, Cl. 162—155.
Schultz, Harry G., to Dana Corp. Transport structure. 3,159,113, 12–1–64, Cl. 105—368.
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Schultz, Paul A. Combined propelling and breathing device for skin divers. 3,128,739, 4–14–64, Cl. 115—6.1.
Schultz, Ralph L., to Victor Comptometer Corp. Carriage and ribbon mechanism for calculating machines. 3,145,651, 8–25–64, Cl. 101—336.
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Schultz, Raymond J., and C. A. Thorsby, to General Motors Corp. Hydraulic power systtem for brakes. 3,131,538, 5–5–64, Cl. 60—51.
Schultz, Raymond J., and P. E. Jaquish, Jr., to General Motors Corp. Hydraulic brake booster. 3,148,592, 9–15–64, Cl. 91—49.
Schultz, Richard G. Table saw guide attachment. 3,138,180, 6–23–64, Cl. 143—169.
Schultz, Richard G. Tailstock center. 3,156,145, 11–10–64, Cl. 82—15.
Schultz, Robert A., to United Sttaes Steel Corp. Apparatus for quenching rolled products. 3,151,197, 9–29–64, Cl. 266—6.
Schultz, Robert A., to United States Steel Corp. Load cell. 3,151,480, 10–6–64, Cl. 73—141.
Schultz, Robert D., to Aerojet-General Corp. Propulsion system. 3,157,988, 11–24–64, Cl. 60—35.3.
Schultz, Robert D., L. K. Branson, and R. F. Chaiken, to Aerojet-General Corp. Propulsion means. 3,122,882, 3–3–64, Cl. 60—35.5.
Schultz, Robert D., and C. L. Randolph, Jr., to Aerojet-General Corp. Method for the preparation of diborane. 3,135,583, 6–2–64, Cl. 23—204.
Schultz, Robert D., and C. L. Randolph, Jr., to Aerojet-General Corp. Method for the preparation of diborane. 3,148,-028, 9–8–64, Cl. 23—204.
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Schultz, Robert S.: *See*—
Hansen, Harold M., and Schultz. 3,146,904.
Schultz, Robert S., to American Can Co. Foamed plastic container. 3,144,167, 8–11–64, Cl. 220—63.
Schultz, Rodney D., to Honeywell, Inc. Tool holders. 3,163,-062, 12–29–64, Cl. 82—36.
Schultz, Rudd. Water cooling system for refrigerators. 3,118,289, 1–21–64, Cl. 62—339.
Schultz, Rudolph H., and A. J. Siebert, deceased; by R. Siebert, executrix. Self-adjusting mill-roll supporting mandrel. 3,146,964, 9–1–64, Cl. 242—72.
Schultz, Wallace W., to United States of America, Atomic Energy Commission. Aluminum cladding dissolution. 3,119,658, 1–28–64, Cl. 23—102.
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Morley, David H., and Schultz. 3,128,381.
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Schultz, William R.: *See*—
Howard, Charles F., Schultz, and Rhudy. 3,151,262.
Schultze, Hans-Joachim, and C. Berther, to Inventa A.G. fuer Forschung und Patentverwaltung. Process for the manufacture of β-methylmercaptopropionaldehyde. 3,153,-069, 10–13–64, Cl. 260—601.
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Schulz, Ewel R., and L. L. Sasser, Sr. Power-operated hairbrush cleaning device. 3,147,501, 9–8–64, Cl. 15—38.
Schulz, Francis, K. Jarnell, and A. M. G. Kinnear, to Imperial Chemical Industries Ltd. Process for making fabric from bulked yarn. 3,128,527, 4–14–64, Cl. 28—72.
Schulz, Gordon R., to Consolidated Electrodynamics Corp. Random storage bin feeding device. 3,161,337, 12–15–64, Cl. 226—118.
Schulz, Hans-Richard, to SABA Schwarzwalder Apparate-Bau-Anstalt August Schwer Sohne G.m.b.H. Device for the removal of the line structure of television pictures. 3,145,-264, 8–18–64, Cl. 178—7.85.
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Schulz, Johann G. D., to Gulf Research & Development Co. Preparation of tetrahydropyranes and tetrahydrothiapyranes. 3,119,839, 1–28–64, Cl. 260—327.
Schulz, John W., Jr. Corn planter. 3,162,153, 12–22–64, Cl. 111—51.
Schulz, Joseph F., H. S. Jobbins, and R. A. Damato, to The Flintkote Co. Apparatus and process for manufacturing cement articles. 3,155,755, 11–3–64, Cl. 264—109.
Schulz, Raymond A., to International Business Machines Corp. Analog to digital converter. 3,148,366, 9–8–64, Cl. 340—347.
Schulz, Robert T. Heat dissipating mount for electric components. 3,163,207, 12–29–64, Cl. 165—68.
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Schulze, Douglas W., and W. J. Foote. Adjustable instrument bench. 3,123,353, 3–3–64, Cl. 269—82.
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Schulze, William G. A. 3,129,173.
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Schulze, John J., to Addressograph-Multigraph Corp. Electrophotographic desk copier. 3,149,546, 9–22–64, Cl. 95—1.7.
Schulze, Karl L. Method for control of aerobic decomposition. 3,138,448, 6–23–64, Cl. 71—9.
Schulze, Klaus, to "Straba" Handels-Aktiengesellschaft. Mixing atomizing nozzle. 3,147,924, 9–8–64, Cl. 239—404.
Schulze, Richard B., to The Englander Co., Inc. Insulated panels for refrigerated vehicles. 3,122,860, 3–3–64, Cl. 50—268.
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Schulze, Robert E., R. J. Jauch, and C. W. Kruckeberg, to Culligan, Inc. Metering device. 3,119,522, 1–28–64, Cl. 222—23.
Schulze, Robert E., and E. A. Morrison, to Culligan, Inc. Chemical feed pump. 3,153,347, 10–20–64, Cl. 74—56.
Schulze, William A., and G. A. Kroll, to United States of America, Army. Missile separation system. 3,160,098, 12–8–64, Cl. 102—49.
Schulze, William G. A., deceased; H. M. Schulze, executrix of said W. G. A. Schulze. Centrifugal type liquid-solid separator. 3,129,173, 4–14–64, Cl. 210—512.
Schulze, William G. A., deceased; H. M. Schulze, executrix. Apparatus for producing ammonium salt crystals. 3,159,-456, 12–1–64, Cl. 23—260.
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Schumacher, Frank A., to General Electric Co. Hot gas defrost refrigerating system and valve means therefor. 3,132,491, 5–12–64, Cl. 62—278.
Schumacher, Hermann, to Boehringer, Gebr., G.m.b.H. Lathe. 3,157,077, 11–17–64, Cl. 82—32.
Schumacher, Leon B. Method of making a rigid structural member. 3,137,922, 6–23–64, Cl. 29—155.
Schumacher, Percy W., Jr., to Reed Roller Bit Co. Roller bit with inserts. 3,126,067, 3–24–64, Cl. 175—374.
Schumacher, Percy W., Jr., to Reed Roller Bit Co. Drill bit having inserts forming a reamer. 3,130,801, 4–28–64, Cl. 175—374.
Schumacher, Percy W., Jr., to Reed Roller Bit Co. Insert bit structure. 3,137,355, 6–16–64, Cl. 175—374.
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Hammersand, Fred G., and Schumacher. 3,119,045.
Schumacher, Wilhelm W. B., to Ontario Research Foundation. Vacuum pump. 3 150,818, 9–29–64, Cl. 230—69.
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Schuman, Seyomur C., E. T. Layng, and M. C. Chervenak, to Hydrocarbon Research, Inc. Suspension hydrogenation of heavy stocks. 3,151,057, 9–29–64, Cl. 208—111.
Schumann, Alfred F. Differential rotation mechanism. 3,138,037, 6–23–64, Cl. 74—516.
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Palopoli, Frank P., Benson, Allen, and Schumann. 3,150,-144.
Schumann, Edward L., E. M. Roberts, and G. P. Claxton. 9,10-dihydroanthracene-9,10-endo-3′,4′-pyrrolidines. 3,123,-618, 3–3–64, Cl. 260—313.
Schümann, Heinrich. Winding machines for electrical coils. 3,128,956, 4–14–64, Cl. 242—9.

Schumann, Herbert, to Paul Rauschert Kommanditgesellschaft, Firma. Lead-containing ceramic structures for radiation shielding. 3,145,184, 8–18–64, Cl. 252—478.

Schumann, Lawrence R., to Star Brush Mfg. Co., Inc. Package and receptacle for brushes. 3,136,409, 6–9–64, Cl. 206—15.1.

Schumann, Robert W., to Nuclear Data, Inc. Pulse height analyzer including digital storage means and method of classifying and counting pulses. 3,125,721, 3–17–64, Cl. 324—103.

Schumann, Robert W., to Nuclear Data, Inc. Timing circuit. 3,148,353, 9–8–64, Cl. 340—172.5.

Schumbacker, Willerd A., and E. Soref, to Allis-Chalmers Mfg. Co. Impeller and method of making same. 3,159,106, 12–1–64, Cl. 103—115.

Schumm, Erich. Flexible tie. 3,147,522, 9–8–64, Cl. 24—16.

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Schündehütte, Karl-Heinz, H. Nickel, K. Schmidt, and F. Sückfull, to Farbenfabriken Bayer Aktiengesellschaft. Azo dyestuffs. 3,135,732, 6–2–64, Cl. 260—157.

Schur, Milton O., to Olin Mathieson Chemical Corp. Tube winder and process. 3,131,615, 5–5–64, Cl. 93—81.

Schurich, Herbert, and H. Dehling. Sliding carriage for hand knitting machine. 3,125,871, 3–24–64, Cl. 66—60.

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Schurman, Peter T., and R. C. Confer, to Airmold Plastics Inc. Hinged plastic closure for containers. 3,133,661, 5–19–64, Cl. 220—31.

Schurman, Peter T., and R. C. Confer, to Airmold Plastics Inc. Plastic container and closure. 3,133,663, 5–19–64, Cl. 220—42.

Schurman, Peter T., and R. C. Confer, to Airmold Plastics, Inc. Hinged closure for plastic containers. 3,155,269, 11–3–64, Cl. 220—31.

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Eisele, Julius, Federkiel, Schuster, Gehm, Tartter, Graser, Rohland, and Stoeckl. 3,154,567.

Schuster, Gordon L., to Timesavers Sanders, Inc. Belt control. 3,118,314, 1–21–64, Cl. 74—241.

Schuster, Gordon L., to Timesavers Sanders, Inc. Abrading machine. 3,146,556, 9–1–64, Cl. 51—139.

Schuster, Ludwig K., and A. L. Baldi, Jr., to Pennsalt Chemicals Corp. Method and flux for soldering chromium oxide coated steel members. 3,128,546, 4–14–64, Cl. 29—495.

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Schuster, Nick A., to Schlumberger Well Surveying Corp. Electrical well logging methods and apparatus having a focussed electrode system including plural survey current electrodes. 3,136,942, 6–9–64, Cl. 324—1.

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Schutmaat, Wayne H., to Penn Controls, Inc. Delayed step opening gas regulator. 3,117,591, 1–14–64, Cl. 137—505.41.

Schutmaat, Wayne H., to Penn Controls, Inc. Adjusting device for pressure regulator valve. 3,149,828, 9–22–64, Cl. 267—1.

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Schutt, Jerome W. Noise and air flow controlling plenum return assembly. 3,159,091, 12–1–64, Cl. 98—40.

Schutt, Norman C., F. W. Flynn, and J. L. Bjelland, to Powers Chemco, Inc. Apparatus for handling a contact screen in a photomechanical camera. 3,151,522, 10–6–64, Cl. 88—24.

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Schutte, Myles G. Pick-up apparatus. 3,156,368, 11–10–64, Cl. 214—147.

Schutte, Otto H., to De Nederlandse Organisatie voor Toegepast-Natuur-Wetenschappelijk Onderzoek Ten Behoeve Van Nijerheid, Handel en Verkeer. Oscillator controlled relay system. 3,125,708, 3–17–64, Cl. 317—146.

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Schutze, Henry G.: *See*—
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Schuur, Gerrit, to Shell Oil Co. Process for production of super-low density thermoplastic foam. 3,126,432, 3–24–64, Cl. 264—53.

Schwab, Carl M., to Otis Engineering Corp. Well tools. 3,148,894, 9–15–64, Cl. 285—3.

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Schwab, Helmut, and R. E. Sandiford, to Consolidated Electrodynamics Corp. Digital data processor. 3,154,770, 10–27–64, Cl. 340—174.1.

Schwab, Louis. Gas deflecting and filtering. 3,126,263, 3–24–64, Cl. 55—317.

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Schwander, Jacques, and J. Foure, to Solvay & Cie. Process for the production of halogenated olefin polymers and copolymers. 3,163,631, 12–29–64, Cl. 260—94.9.

Schwaninger, John, to Martin Machine Co. Inc. Roller printing apparatus. 3,134,324, 5–26–64, Cl. 101—269.

Schwaninger, Joseph W., to Sperry Rand Corp. Forward-backward counter. 3,145,292, 8–18–64, Cl. 235—92.

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Schwartz, Daniel M. Geared turn transmission. 3,118,323, 1–21–64, Cl. 74—720.5.
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Schwartz, Harold O., to The Wurlitzer Co. Modular leaf switch. 3,126,466, 3–24–64, Cl. 200—166.
Schwartz, Harold O., and H. B. Hammill, to The Wurlitzer Co. Background noise compensated recording player. 3,135,836, 6–2–65, Cl. 179—100.1.
Schwartz, Harold S., to Potter Instrument Co., Inc. Sequential buffer storage system for digital information. 3,153,776, 10–20–64, Cl. 340—172.5.
Schwartz, Harry M. Sheet cutting machine. 3,157,948, 11–24–64, Cl. 30—273.
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Gurian, Seymour D., and Schwartz. 3,153,745.
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Schwartz, Mendel. Axially reciprocating ink roller mechanism. 3,145,652, 8–25–64, Cl. 101—348.
Schwartz, Morris, and E. K. Kaprelian, to The Kalart Co., Inc. Slide and sound record carrier, 3,145,616, 8–25–64, Cl. 88—28.
Schwartz, Morris, and E. K. Kaprelian, to The Kalart Co., Inc. Device for viewing a photographic slide and reproducing intelligence associated therewith. 3,159,078, 12–1–64, Cl. 88—28.
Schwartz, Murray A., to United Aircraft Corp. Core for casting. 3,136,002, 6–9–64, Cl. 18—45.
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Schwartz, Nathan R., to Swivelier Co., Inc. Wall mounted lighting fixture. 3,122,331, 2–25–64, Cl. 240—73.
Schwartz, Nelson N., and M. M. Fein, to Thiokol Chemical Corp. Catalytic hydrogenation of organoboron compounds. 3,152,190, 10–6–64, Cl. 260—606.5.
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Schwartz, Robert A. D., and S. W. Lindheim. Suspended ceiling and lighting system. 3,146,956, 9–1–64, Cl. 240—9.
Schwartz, Roy C., to Galland-Henning Mfg. Co. Plastic cylinder assembly. 3,159,086, 12–1–64, Cl. 92—161.
Schwartz, Sam. Light sensitive material spooling device. 3,161,370, 12–15–64, Cl. 242—74.
Schwartz, Sidney A. Thermoelectric lift. 3,140,890, 7–14–64, Cl. 294—1.
Schwartz, Sydney J.: *See*—
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Schwartz, Walter M., Jr., to Proctor Mfg. Corp. Steam iron with water spray. 3,128,568, 4–14–64, Cl. 38—78.
Schwartz, Werner, to Metallgesellschaft A.G. Removal of zinc from lead-containing flue dust. 3,149,964, 9–22–64, Cl. 75—120.
Schwartzman, Gilbert, to Glide-O-Matic Corp. Dauber having an internal compressed body. 3,129,452, 4–21–64, Cl. 15—566.
Schwartzman, Gilbert, to Glide-O-Matic Corp. Dauber having dome-shaped cover support. 3,135,988, 6–9–64, Cl. 15—566.
Schwartzwalder, Karl, to General Motors Corp. Spark plug electrode seal. 3,139,553, 6–30–64, Cl. 313—144.
Schwarz, Alois, to Bolkow-Entwicklungen Kommanditgesellschaft. Control device for rotary wing aircraft. 3,148,734, 9–15–64, Cl. 170—160.25.
Schwarz, Anton J. F., to The Dow Chemical Co. Attenuated live measles virus vaccine and method of production. 3,133,861, 5–19–64, Cl. 167—78.
Schwarz, Arthur M.: *See*—
Holowaty, Michael O., and Schwarz. 3,134,667.
Schwarz Bro. Research, Inc.: *See*—
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Schwarz, Frank: *See*—
Engborg, Nelson E., Schwarz, and Lowenstein. 3,161,-771.
Schwarz, Gottfried, to Kuhnle, Kopp & Kausch, Aktiengesellschaft. Gas turbine construction. 3,162,421, 12–22–64, Cl. 253—52.
Schwarz, Herbert: *See*—
Hartung, Klauke, and Schwarz. 3,118,922.
Schwarz, Josef: *See*—
Kuhnle, Ernst, and Schwarz. 3,129,879.
Schwarz, Leonard H. Sorting machine for bottles and the like. 3,117,669, 1–14–64, Cl. 209—80.
Schwarz, Peter D. Electrical remote indicating system. 3,130,298, 4–21–64, Cl. 235—92.
Schwarz, Richard, to Bro-Dart Industries, Inc. Metal shelving bracket. 3,128,074, 4–7–64, Cl. 248—246.
Schwarz, Rudolf, to Gebr. Staubli & Co. Guide means for reading needles in dobbies. 3,156,266, 11–10–64, Cl. 139—68.
Schwarz, Walter H., to Weston Instruments, Inc. D.C. ammeter calibrator utilizing feedback control and regulation of calibrating current. 3,142,798, 7–28–64, Cl. 324—74.
Schwarz, Werner: *See*—
Thieme, Peter, and Schwarz. 3,126,621.
Schwarzberger, Arthur, to Shirley Schwarzberger. Follower units for quilting machines. Re. 25,575, 5–12–64, Cl. 112—118.
Schwarzberger, Arthur, to S. Schwarzberger, doing business as A-B Mfg. Co. Frame exchange mechanisms for quilting machines. 3,124,256, 3–10–64, Cl. 214—1.
Schwarzberger, Shirley: *See*—
Schwarzberger, Arthur. Re. 25,575.
Schwarzberger, Arthur. 3,124,256.
Schwarze, Werner, to Deutsche Gold -und Silber-Scheideanstalt vormals Roessler. Method of combatting fungi with 2-thiocyano-4,6 bisalkyl amino-s-triazines. 3,120,468, 2–4–64, Cl. 167—33.
Schwarze, Werner, to Deutsche Gold- und Silber Scheideanstalt vormals Roessler. Novel fungicidal amino derivatives of thiocyano-s-triazines. 3,137,695, 6–16–65, Cl. 260—249.8.
Schwarzenbek, Eugene F., and C. E. Slyngstad, to The M. W. Kellogg Co. Fluid contact system. 3,142,542, 7–28–64, Cl. 23—288.
Schwarzenbek, Eugene F., and J. Turkevich, to Pullman Inc. Reactivation of a platinum group catalyst composite employed in the reforming of a naphtha. 3,144,402, 8–11–64, Cl. 208—140.
Schwarzenberger, Horst, to Telefunken Gesellschaft mit beschrankter Haftung. Process for forming recesses in semi-conductor bodies. 3,158,517, 11–24–64, Cl. 156—17.
Schwarzer, Fred. Boat propulsion mechanism. 3,148,656, 9–15–64, Cl. 115—25.
Schwarzer, Fritz, G.m.b.H.: *See*—
Rodler, Hans. 3,131,689.
Schwarzer, Klaus, A. Hauseweiler, and B. Homeyer, to Farbenfabriken Bayer Aktiengesellschaft. Nematocidal pesticidal agent. 3,143,462, 8–4–64, Cl. 167—22.
Schwarzlander, Harry. Game board with intersecting channels. 3,130,972, 4–28–64, Cl. 273—131.
Schwarzweber, Peter. Bogie mounting arrangement. 3,150,-612, 9–29–64, Cl. 105—199.
Schwebel, Charles D.: *See*—
Heithaus, William C., and Schwebel. 3,140,457.
Schwegler, Roy F.: *See*—
Gruner, Frederick R., and Schwegler. 3,159,335.
Schweighofer, Horst M., and H. M. Passman, to Collins Radio Co. Flight director aircraft instrument. 3,162,834, 12–22–64, Cl. 340—27.
Schweiker, Malcolm A., to American Encaustic Tiling Co., Inc. Tile assembling apparatus. 3,162,937, 12–29–64, Cl. 29—211.
Schweikert, Wilbur H., to General Electric Co. Controlled grain size casting method. 3,158,912, 12–1–64, Cl. 22—196.
Schweikhardt, Friedrich, H. Reinsch, and E. Lieser, to Eugen Bauer, G.m.b.H. Diaphragm blocking structure for automatic cameras. 3,131,620, 5–5–64, Cl. 95—64.
Schweisthal, Frederick G.: *See*—
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Schweitzer, Earl O., to Clevite Corp. Toothed transmission belt. 3,117,459, 1–14–64, Cl. 74—229.
Schweitzer, Earl O., to Crane Co. Thermal actuator. 3,132,-472, 5–12–64, Cl. 60—23.
Schweitzer, Earl O., to Clevite Corp. Transmission. 3,156,-319, 11–10–64, Cl. 184—6.
Schweitzer, Edmund O., Jr. Means for measuring current flow in and voltage of a high voltage alternating current conductor. 3,138,742, 6–23–64, Cl. 317—27.
Schweitzer, Edmund O., Jr. System for measuring phase and power factors in electric circuits including harmonic producing means. 3,154,735, 10–27–64, Cl. 324—87.
Schweitzer, Howard V.: *See*—
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Schweizer, Erich: *See*—
Meier, Edwin, and Schweizer. 3,156,638.
Schweizer, Gottfried, to Wiener Metallwaren- und Schnallenfabrik-Schar-Smolka. Safety heel ski binding. 3,125,349, 3–17–64, Cl. 280—11.35.
Schweizer, Gottfried, to Wiener Metallwaren- und Schnallefabrik Schar-Smolka. Safety binding lever for ski bindings. 3,151,874, 10–6–64, Cl. 280—11.35.
Schweizer, Walter, to Maybach-Motorenbau G.m.b.H. Hydromechanical change-speed and reversing transmission. 3,159,055, 12–1–64, Cl. 74—732.
Schweizerische Industrie-Gesellschaft: *See*—
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Schwendeman, James L., to Monsanto Co. Anti-skinning agent for drying oil compositions. 3,152,916, 10–13–64, Cl. 106—263.
Schwendenwein, Karl. Lathe construction. 3,162,926, 12–29–64, Cl. 29—44.
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Roeber, Henry W., and Schwender. 3,144,373.
Schwendt, Otto, and J. Meimberg, to Ri-Ri Werke A. G. Slide fastener. 3,132,398, 5–12–64, Cl. 24—205.16.
Schwengel, Harold W., to Modern Equipment Co. Cupola charging apparatus. 3,128,891, 4–14–64, Cl. 214—19.
Schwenk, Ulrich: *See*—
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Berndt, Walter, Hörnig, Probst, Schmidt, Schwenk, and Weber. 3,122,586.
Schwenk, Ulrich, and E. Schneck, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for improving the stability of silver salt solutions to reducing agents. 3,141,851, 7–21–64, Cl. 252—184.
Schwenke, Heinrich: *See*—
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Schwenzfeger, Edward E.: *See*—
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Le Cronier, Richard E., and Schwenzfeger. 3,134,054.
Schwenzfeger, Edward E., and I. M. Vogt, to Bell Telephone Laboratories, Inc. Ferroelectric device for counting messages between code recorder and transmitter. 3,126,525, 3–24–64, Cl. 340—173.2.
Schwerdhofe, Hans J.: *See*—
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Schuller, Kurt, and Schwerdhofer. 3,122,226.
Schwerdhöfer, Hans J., to Fichtel & Sachs A.G. Multiple speed bicycle hub with self-contained speed change mechanism. 3,134,274, 5–26–64, Cl. 74—750.
Schwerdhofer, Hans J., to Fichtel & Sachs A.G. Multiple speed hub with automatically varying transmission ratio. 3,143,005, 8–4–64, Cl. 74—752.
Schwerdhofer, Hans J., to Fichtel & Sachs A.G. Dual speed hub. 3,147,641, 9–8–64, Cl. 74—750.
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Burrows, Walter F., and Schwerin. 3,157,501.
Byler, William H., Schwerin, and Hays. 3,121,232.
Schwerin, Andre K., to General Aniline & Film Corp. Oil-dispersed dyes in photopolymerization systems. 3,130,050, 4–21–64, Cl. 96—35.
Schwerin, Andre K., W. F. Burrows, and H. D. Evans, to General Aniline & Film Corp. Photosensitive stencil and process of making the same. 3,136,638, 6–9–64, Cl. 96—75.
Schwerin, George S. Needle manipulating device. 3,139,089, 6–30–64, Cl. 128—340.
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Schweriner, Harold, to The Simco Co., Inc. Dustproof static eliminator. 3,137,806, 6–16–64, Cl. 317—2.
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Schwerter, Robert, to American Meter Co., Inc. Pilot loaded pressure regulator. 3,139,899, 7–7–64, Cl. 137—489.5.
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Schwertfeger, Walter J., to Alton Box Board Co. Egg cartons. 3,163,345, 12–29–64, Cl. 229—29.
Schwertz, Frederick A., to Xerox Corp. Differential image transfer system. 3,124,457, 3–10–64, Cl. 96—1.
Schwertz, Frederick A., to Xerox Corp. Electronic recorder. 3,130,411, 4–21–64, Cl. 346—74.
Schwertz, Frederick A., to Xerox Corp. Three dimensional display device. 3,154,636, 10–27–64, Cl. 178—6.5.
Schwertz, Frederick A., to Xerox Corp. Buffer for electronic display readout. 3,155,022, 11–3–64, Cl. 95—1.7.
Schwertz, Frederick A., to Xerox Corp. High speed xeroprinter and method therefor. 3,160,091, 12–8–64, Cl. 101—92.
Schwesinger, Gerhard, to Carl Zeiss. Gear mechanism for representing planetary motion in a planetarium apparatus. 3,125,892, 3–24–64, Cl. 74—393.
Schwick, Hans G.: *See*—
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Schwickert, Otto, to Christian Melsheimer Nachf., Inh. O. E. & M. Schwickert. Method of producing articles for adhesive attachment to surfaces. 3,117,045, 1–7–64, Cl. 156—278.
Schwienbacher, Georges, to Photo-Entwicklungsgerate AG. Dispenser for easily dripping liquids. 3,157,319, 11–17–64, Cl. 222—207.
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Schwing, Friedrich W. Climbing cranes. 3,127,996, 4–7–64, Cl. 212—57.
Schwing, Friedrich W. Hydraulic piston pump for the pumping of viscous pulpy or plastic substances. 3,146,721, 9–1–64, Cl. 103—49.
Schwinger, Heinrich, to Hesser, Fr., Maschinenfabrik-Aktiengellschaft, Firma. Bags. 3,145.907, 8–25–64, Cl. 229—53.
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Weir, Thomas J. 3,155,209.
Weir, Thomas J. 3,159,254.
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Schwoerer, Frank, to United States of America, Atomic Energy Commission. Core assembly for a nuclear reactor. 3,151,029, 9–29–64, Cl. 176—17.
Schwyzer, Robert, to Ciba Corp. NG tosyl arginine and peptide synthesis therewith. 3,131,174, 4–28–64, Cl. 260—112.
Schymik, Walter H., and J. V. McNulty, to I-T-E Circuit Breaker Co. Dry air system for isolated phase bus. 3,155,471, 11–3–64, Cl. 55—162.
Sciaky, Albert M., to Welding Research, Inc. Automatic voltage compensator. 3,154,746, 10–27–64, Cl. 328—151.
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Camerino, Bruno, Sciaky, and Robert. 3,134,793.
Scibbe, Harold R., to Thompson Ramo Wooldridge Inc. Variable pump for fuel injection supply. 3,119,340, 1–28–64, Cl. 103—38.
Scidmore, Wright H., to United States of America, Army. Mechanism for changing magnification of a binocular periscope. 3,162,715, 12–22–64, Cl. 88—72.
Scientific Associates, Inc.: *See*—
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Tobin, Leonard C., and Weber. 3,121,043.
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Oishei, John R., and Scinta. 3,116,510.
Scinta, Anthony C., to Trico Products Corp. Windshield wiper system. 3,116,507, 1–7–64, Cl. 15—250.42.
Scinta, Anthony C., to Trico Products Corp. Windshield wiper. 3,139,645, 7–7–64, Cl. 15—250.32.
Scinta, Anthony C., to Trico Products Corp. Windshield wiper. 3,141,186, 7–21–64, Cl. 15—250.42.
Scinta, Anthony C., to Trico Products Corp. Wiper arm. 3,161,902, 12–22–64, Cl. 15—250.34.
Sciola, John D.: *See*—
Porter, John L., and Sciola. 3,163,523.
Sciper, Societe Anonyme: *See*—
Boyer, Jean J. 3,124.079.
Scire, Martin: *See*—
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Scislowicz, Henry M., to Abbott Laboratories. Catheter assembly. 3,128,769, 4–14–64, Cl. 128—348.
Sci-Tech Corp.: *See*—
Shanefield, Daniel J. 3,158,481.
Sciuto, Joseph S., Jr., to Stile-Craft Manufacturers. Pin retainer construction for couplings. 3,133,755, 5–19–64, Cl. 285—277.
Sciuto, Joseph S., Jr., to Stile-Craft Manufacturers, Inc. Locking mechanism in quick-connect-disconnect coupling. 3,140,072, 7–7–64, Cl. 251—89.5.
Scobee, Robert R., to Lockheed Aircraft Corp. Igniter for rocket motor. 3,162,013, 12–22–64, Cl. 60—39.82.

Scoggin, Jack S., and H. S. Kimble, to Phillips Petroleum Co. Separation of solid polymers and liquid diluent. 3,152,872, 10–13–64, Cl. 34—15.
Scolari, Antonio. Foraminous rotary drum dryer. 3,140,158, 7–7–64, Cl. 34—128.
Scoledge, Robert F., and R. M. Shimer, Jr., to Sylvania Electric Products Inc. Projection lamp. 3,162,785, 12–22–64, Cl. 313—113.
Scoles, Graham J., to Associated Electrical Industries (Manchester) Ltd. A.C. input pulse generator using successively discharged pulse forming network. 3,124,754, 3–10–64, Cl. 328—65.
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Scott, A. & R., Ltd.: *See*—
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Scott, Alastair I., and C. T. Bedford, to The University Court of the University of Glasgow. 6-deoxy-6-hydroperoxy dehydrotetracyclines and process utilizing the same. 3,146,265, 8–25–64, Cl. 260—559.
Scott, Arnett P. Surgical splint. 3,131,691, 5–5–64, Cl. 128—79.
Scott, Arthur L., to Columbia Products Co. Hollow glass fiber shaft. 3,127,910, 4–7–64, Cl. 138—144.
Scott Aviation Corp.: *See*—
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Miller, Arthur E. 3,145,721.
Replogle, Edward H. 3,117,574.
Replogle, Edward H. 3,156,174.
Roland, Wesley J. 3,146,295.
Scott, Billy J., to Phillips Petroleum Co. Apparatus for filling bags. 3,120,289, 2–4–64, Cl. 177—80.
Scott, Charles E.: *See*—
Stuart, Archibald P., and Scott. 3,118,938.
Scott, Charles H.: *See*—
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Scott, Charles H., to Dorr-Oliver Inc. Sediment conveying apparatus for settling tanks. 3,140,996, 7–14–64, Cl. 210—528.
Scott, Cleveland R.: *See*—
Edmonds, James T., Jr., and Scott. 3,144,750.
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Scott, Clifford O. Aircraft safety door. 3,160,372, 12–8–64, Cl. 244—129.
Scott, Clyde R.: *See*—
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Scott, David C. Pocketed ball game. 3,141,673, 7–21–64, Cl. 273—123.
Scott, David H. Aerial navigation device. 3,141,241, 7–21–64, Cl. 33—97.
Scott, David W.: *See*—
Holman, Alvin F., Scott, and Stokes. 3,132,631.
Scott, Dewey L. Rotary engine. 3,116,666, 1–7–64, Cl. 91—92.
Scott, Don, to Fermco Laboratories, Inc. Method of removing free oxygen from an aqueous food product. 3,160,508, 12–8–64, Cl. 99—182.
Scott, Don, to Fermco Laboratories, Inc. Process for removal of sugars by enzymatic action. 3,162,537, 12–22–64, Cl. 99—113.
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Scott, Francis L., to Pennsalt Chemicals Corp. Process for aliphatic 1,3-diamines. 3,119,872, 1–28–64, Cl. 260—583.
Scott, Francis L., to Pennsalt Chemicals Corp. Process for phosphoramidic acid derivatives. 3,159,669, 12–1–64, Cl. 260—500.
Scott, Francis L., and R. E. Oesterling, to Pennsalt Chemicals Corp. Preparation of secondary fluoroalkyl amines. 3,134,816, 5–26–64, Cl. 260—583.
Scott, George A., to General Electric Co. Convertible drawer oven. 3,143,638, 8–4–64, Cl. 219—35.
Scott, George A., and M. S. Williams, Jr., to General Electric Co. Door mechanism for convertible oven. 3,131,981, 5–5–64, Cl. 312—222.
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Scott, Gerald L.: *See*—
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Scott, Gerald L., to Interstate Bakeries Corp. Method of making a coiled bread loaf. 3,156,194, 11–10–64, Cl. 107—54.
Scott, Glenn L.: *See*—
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Scott, Graham W., to E. Shipton & Co. (Engineering) Ltd. Method of and apparatus for manufacturing hollow articles from organic plastic material. 3,163,690, 12–29–64, Cl. 264—98.
Scott, H. H., Inc.: *See*—
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Von Recklinghausen, Daniel R. 3,161,727.
Scott, Harold E. B., to Vickerys Ltd. Doctors for paper making machines. 3,121,904, 2–25–64, Cl. 15—308.
Scott, Harry L. Mine safety apparatus. 3,138,741, 6–23–64, Cl. 317—9.
Scott, Hartwell T. Inserted-tooth saw bit. 3,128,804, 4–14–64, Cl. 143—141.
Scott, Hermon H. Demountable curtained grill for acoustic loudspeaker enclosure and the like. 3,163,254, 12–29–64, Cl. 181—31.
Scott, Ian J. C., to Holley Carburetor Co. Transistorized voltage regulator. 3,136,939, 6–9–64, Cl. 322—73.
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Scott, James and Co. (Electrical Engineers) Ltd.: *See*—
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Scott, James R. Warm air humidifiers. 3,139,462, 6–30–64, Cl. 261—70.
Scott, John D., to The Bendix Corp. Power brake control valve. 3,163,007, 12–29–64, Cl. 60—54.5.
Scott, John J. Terminal and terminal board. 3,152,853, 10–13–64, Cl. 339—220.
Scott, John J., to Norton Co. Arc furnace process for the production of zirconium carbide. 3,161,470, 12–15–64, Cl. 23—208.
Scott, John J., to Norton Co. Arc furnace process for the production of boron carbide. 3,161,471, 12–15–64, Cl. 23—208.
Scott, John J., to Norton Co. Arc furnace process for the production of titanium carbide. 3,161,472, 12–15–64, Cl. 23—208.
Scott, John N., Jr.: *See*—
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Scott, John N., Jr., to Phillips Petroleum Co. Injection molding thermoplastic polymers. 3,121,257, 2–18–64, Cl. 18—30.
Scott, John N., Jr., and D. L. Peters, to Phillips Petroleum Co. Molding. 3,127,458, 3–31–64, Cl. 264—98.
Scott, John N., Jr., and D. L. Peters, to Phillips Petroleum Co. Injection molding of plastic materials. 3,159,878, 12–8–64, Cl. 18—30.
Scott, John N., Jr, and D. L. Alexander, to Phillips Petroleum Co. Blow molding means. 3,162,707, 12–22–64, Cl. 264—98.
Scott, John W., Jr.: *See*—
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Mason, Harold F., Scott, and Stanton. 3,135,682.
Scott, John W., Jr., to California Research Corp. Production of high octane gasolines from naphthas. 3,124,523, 3–10–64, Cl. 208—62.
Scott, John W., Jr., to California Research Corp. Hydrocarbon hydrocracking process with long on-stream period. 3,127,339, 3–31–64, Cl. 208—111.
Scott, John W., Jr., and H. F. Mason, to California Research Corp., Hydrocracking process employing as a feed, a nitrogen containing distillate oil. 3,117,075, 1–7–64, Cl. 208—111.
Scott, John W., Jr., and W. A. Raatz, to California Research Corp. Staged catalytic conversion of petroleum distillates. 3,125,502, 3–17–64, Cl. 208—59.
Scott, John W., Jr., and F. M. Hazard, Jr., to California Research Corp. Process for upgrading petroleum naphthas. 3,157,589, 11–17–64, Cl. 208—80.
Scott, John W., Jr., L. S. Stanton, and H. F. Mason, to California Research Corp. Hydrocarbon conversion process with a nitrogen containing distillate feed stock. 3,157,590, 11–17–64, Cl. 208—111.
Scott, Joseph A. Bale loader. 3,127,973, 4–7–64, Cl. 198—7.
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Scott, Larkin B., to The Perkin-Elmer Corp. Commutator construction. 3,118,037, 1–14–64, Cl. 200—166.
Scott, Larkin B., to The Perkin-Elmer Corp. Rotary potentiometer with speed reduction gearing. 3,129,382, 4–14–64, Cl. 323—43.5.
Scott, Lester, to Kent Plastics Corp. Vacuum molding apparatus. 3,126,582, 3–31–64, Cl. 18—19.
Scott, Lyle B., to Byron Jackson, Inc. Cementing plugs and float equipment. 3,159,219, 12–1–64, Cl. 166—156.
Scott, Martin, to Metallized Carbon Co., Inc. Self-alining bearings. 3,160,449, 12–8–64, Cl. 308—72.
Scott, Martin L., to Eastman Kodak Co. Contact screens for photogravure. 3,132,946, 5–12–64, Cl. 96—116.
Scott, Mindy. Electrically heated vaporizing device. 3,152,240, 10–6–64, Cl. 219—271.
Scott, Morton W.: *See*—
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Scott, O. M., & Sons Co., The: *See*—
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Scott, Philip H., to Pan American Petroleum Corp. Combination in situ combustion-waterflooding process. 3,131,761, 5–5–64, Cl. 166—11.
Scott, Ralph C.: *See*—
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Scott, Ray W. Automatic telephone dialing attachment. 3,118,976, 1–21–64, Cl. 179—90.

Scott, Raymond G., Jr., to Waldorf Paper Products Co. Product encircling band. 3,127,090, 3–31–64, Cl. 229—87.

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Scott, Reginald: *See*—
Livey, David T., Murray, Scott, and Williams. 3,141,782.

Scott, Richard: *See*—
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Scott, Richard D., to Teletype Corp. Error detection system utilizing a party character. 3,147,460, 9–1–64, Cl. 340—146.1.

Scott, Robert C. Hardness testers. 3,124,954, 3–17–64, Cl. 73—83.

Scott, Robert C. Horizontal hardness tester. 3,128,621, 4–14–64, Cl. 73—81.

Scott, Robert C. Portable hardness tester. 3,138,951, 6–30–64, Cl. 73—81.

Scott, Robert C. Adjustable pole extensions for use in electromagnetic hardness testers. 3,147,614, 9–8–64, Cl. 73—81.

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Scott, Robert E., and J. P. Kemmer, to Litton Industries, Inc. Servo computer systems. 3,138,748, 6–23–64, Cl. 318—28.

Scott, Robert H., to General Motors Corp. Vehicle wheel. 3,121,455, 2–18–64, Cl. 152—427.

Scott, Robert I., to FMC Corp. Method for regulating fruit set. 3,139,333, 6–30–64, Cl. 71—2.6.

Scott, Rono W. Detachable, collapsible combination rack for foot locker and shoes. 3,162,311, 12–22–64, Cl. 211—34.

Scott, Samuel T. Rotary internal combustion engine. 3,125,074, 3–17–64, Cl. 123—17

Scott, Thomas, and D. H. Williams, to General Motors Corp. Window cleaning mechanism. 3,126,569, 3–31–64, Cl. 15—250.35.

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Scott, William E.: *See*—
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Scott, William E., C. F. Krewson, and R. W. Riemenschneider, to United States of America, Agriculture. Preparation of (+)-threo-12,13-dihydroxyoleic acid. 3,139,387, 6–30–64, Cl. 195—30.

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Scott, William J., to Associated Electrical Industries Ltd. Voltage-tuneable microwave reactive element utilizing semiconductor material. 3,163,835, 12–29–64, Cl. 333—83.

Scott, William M., Jr., to I-T-E Circuit Breaker Co. Removable and replaceable auxiliary housing for circuit breaker containing trip unit and current limiting fuse. 3,118,991, 1–21–64, Cl. 200—114.

Scott, William N., to Rett Electronics, Inc. Solid state ignitor employing inverted circuit to drive firing circuit. 3,153,155, 10–13–64, Cl. 307—88.5.

Scott, William P., to Continental Oil Co. Extreme pressure lubricants. 3,133,020, 5–12–64, Cl. 252—33.6.

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Scotti, Frank, and E. J. Frazza, to American Cyanamid Co. Synthesis of acetals of cyanoacetaldehyde. 3,138,616, 6–23–64, Cl. 260—340.9.

Scotti, Frank, and E. J. Frazza, to American Cyanamid Co. Synthesis of β-cyanovinyl hydrazines. 3,138,630, 6–23–64, Cl. 260—465.

Scotti, Frank, and E. J. Frazza, to American Cyanamid Co. 2-cyano-1,1-ethanedisulfonic acid disalts and process for preparing the same. 3,138,632, 6–23–64, Cl. 260—465.1.

Scotti, Frank, and E. J. Frazza, to American Cyanamid Co. Synthesis of β-cyanovinyl ammonium halides. 3,138,633, 6–23–64, Cl. 260—465.5.

Scotti, Vincent. Multiple drawer box. 3,120,413, 2–4–64, Cl. 312—330.

Scotto, Dominick P., and D. J. Mager, to American Bosch Arma Corp. Servo mechanism. 3,135,164, 6–2–64, Cl. 91—47.

Scovel, Ralph E., and B. G. Petrucci, to Dano of America, Inc. Apparatus for conveying and separating material. 3,145,937, 8–25–64, Cl. 241—101.

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Scragg, Frederick, to Ernest Scragg & Sons Ltd. Process and apparatus for manufacturing monofilaments. 3,161,708, 12–15–64, Cl. 264—148.

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Scribner, Albert W. Metal extrusion die block and ram. 3,146,886, 9–1–64, Cl. 207—18.

Scribner, Albert W. Metal extrusion. 3,158,262, 11–24–64, Cl. 207—9.

Scribner, Albert W. Extrusion press. 3,158,263, 11–24–64, Cl. 207—9.

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Scruggs, David M., and R. H. Herron, to The Bendix Corp. Rocket nozzles and the like. 3,139,672, 7–7–64, Cl. 29—182.5.

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Scrutton, Harold, to Cammell Laird & Co. (Shipbuilders & Engineers) Ltd. Bilge blocks and dry docks utilising such bilge blocks. 3,123,979, 3–10–64, Cl. 61—66.

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Scudieri, William A., to Atlas Corp. Means for removing end fittings from hoses. 3,130,493, 4–28–64, Cl. 30—316.

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Anthony, Myron L., and Gill. 3,139,678.
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Scully, Thomas J., and V. N. Stewart, to General Electric Co. Circuit interrupter having uniformly spaced spiral arc runners in a confined atmosphere for improved arc voltage control. 3,156,803, 11–10–64, Cl. 200—144.

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Seaborg, Glenn T., to United States of America, Atomic Energy Commission. Element 96 and compositions thereof. 3,161,-462, 12–15–64, Cl. 23—14.5.

Seaborg, Glenn T., J. W. Gofman, and R. W. Stoughton, to United States of America, Atomic Energy Commission. Device for production of nuclear energy from U_{233}. 3,123,535, 3–3–64, Cl. 176—41.

Seaborg, Glenn T., J. E. Willard, and S. G. Thompson, to United States of America, Atomic Energy Commission. Process of precipitating plutonium and compounds formed thereby. 3,158,614, 11–24–64, Cl. 260—270.

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Searle, Robert F., P. C. Robinson, and W. A. Johnson, to Arkell and Smiths. Process and machine for manufacturing paper bags. 3,121,374, 2–18–64, Cl. 93—22.

Searle, Walter W. R., to The Hoover Co. Mechanical stepping timer. 3,125,695, 3–17–64, Cl. 307—141.8.

Searle, Walter W. R., and E. F. Mann, to The Hoover Co. Filling and emptying system for washing machine. 3,159,-174, 12–1–64, Cl. 137—374.
Searles, John H., to Pittsburgh Plate Glass Co. False twist device. 3,136,110, 6–9–64, Cl. 57—77.45.
Searles, John J., to Ford Motor Co. Control valve system. 3,158,037, 11–24–64, Cl. 74—472.
Searles, John J., and W. D. Ross, to Ford Motor Co. Downshift control mechanism. 3,142,999, 8–4–64, Cl. 74—472.
Searles, William L. Self-locating arrow having breakable container means containing artificial smoke producing chemicals. 3,150,875, 9–29–64, Cl. 273—106.5.
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Sears, Russell L., to Rinshed-Mason Co. Method of forming multicolor coating compositions and resulting products. 3,138,568, 6–23–64, Cl. 260—29.6.
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Seaver, Donald A., to Scovill Mfg. Co. Cosmetic container. 3,150,771, 9–29–64, Cl. 206—56.
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Seckerson, Clifford A., to United-Carr Fastener Corp. Ash tray and extinguishing element support. 3,116,742, 1–7–64, Cl. 131—235.
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Seefelder, Matthias, and G. Neubauer, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of pentaerythritol dichlorhydrin. 3,118,003, 1–14–64, Cl. 260—633.

Seefelder, Matthias, and H. G. Reppe, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of azamonomethinecyanines of the benzothiazole series. 3,130,197, 4–21–64, Cl. 260—305.
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Seeley, Elwin W., and J. R. Alday, to United States of America, Navy. Miniaturized tem microwave bandpass filter. 3,153,768, 10–20–64, Cl. 333—73.
Seeley, Sherwood B., to The Joseph Dixon Crucible Co. Stopper rod assemblies. 3,153,266, 10–20–64, Cl. 22—85.
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Seely, Richard E., to General Electric Co. Speed responsive switch arangement for use in controlling winding circuits of single phase reversible electric motors. 3,157,762, 11–17–64, Cl. 200—80.
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Segre, Valfredo. Window frame with removable windows. 3,122,797, 3–3–64, Cl. 20—52.2.
Seguenot, Gabriel J., to Societe d'Etudes et de Recherches Techniques Sertec. Tractor hitch control devices. 3,125,-168, 3–17–64, Cl. 172—465.
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Sehring, Richard, and K. Zeile, to C. H. Boehringer Sohn. Process for the preparation of O,O-dialkyldithiophosphorylfatty acid compounds and pesticidal compositions containing the same. 3,134,801, 5–26–64, Cl. 260—461.
Seiber, Philip M. H. Process of placing a copper layer on an aluminum electrical connector. 3,148,086, 9–8–64, Cl. 117—213.
Seibert, Carl F., Jr., to Eastern Plastics Corp. Top-lifts for shoe heels. 3,149,427, 9–22–64, Cl. 36—34.
Seibert, Walter, F. Schubert, and H. Otterbach, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Sulfonic acid salts of auramine. 3,157,677, 11–17–64, Cl. 260—396.
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Seidel, Max, to Gesellschaft fur Linde's Eismaschinen Aktiengesellschaft. Process and installation for the production of refrigeration thru high-pressure gas. 3,118,751, 1–21–64, Cl. 62—9.
Seidel, Max, and A. Mayer, to Gesellschaft fur Linde's Eismaschinen Aktiengesellschaft. Oil separator for gases. 3,122,430, 2–25–64, Cl. 55—278.
Seidel, Robert B., to Automatic Timing & Controls, Inc. Timing or similar apparatus. 3,160,719, 12–8–64, Cl. 200—38.
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Seifert, Wolfgang K., to California Research Corp. Formation of oximes from α-nitroolefins. 3,156,723, 11–10–64, Cl. 260—566.
Seiferth, Oscar E., G. M. Austin, and H. E. Snyder, to Oscar Mayer & Co., Inc. Slicer feed control apparatus. 3,140,-737, 7–14–64, Cl. 146—94.
Seifferlein, Theo, to Daimler-Benz Aktiengesellschaft. Combustion chamber arrangement. 3,154,516, 10–27–64, Cl. 60—39.72.
Seiffert, Günther. Thermostatic temperature regulator. 3,144,206, 8–11–64, Cl. 236—99.
Seifried, Paul, to Firma Rheinmetall G.m.b.H. Breech mechanism for automatic weapons. 3,153,982, 10–27–64, Cl. 89—194.
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Sejournet, Jacques, to Compagnie du Filage des Metaux et des Joints Curty CEFILAC, Societe Anonyme. Method and apparatus for hot extruding metals and alloys. 3,126,097, 3–24–64, Cl. 207—10.
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Seki, Takashi: *See*—
Nakagome, Takenari, Katsube, Seki, and Aono. 3,162,-647.
Sekiguchi, Harujiro, and I. Sugioka, ½ to H. Sekiguchi, and ½ to Yowata Iron & Steel Co., Ltd. Arc welding method by an arc covering agent composed mainly of carbon and silicon carbide. 3,153,134, 10–13–64, Cl. 219—137.
Sekmakas, Kazys, to DeSoto Chemical Coatings, Inc. Amide interpolymer containing unsaturated polyester. 3,163,615, 12–29–64, Cl. 260—22.
Sekmakas, Kazys, R. E. Ansel, and K. Drunga, to DeSoto Chemical Coatings, Inc. Single step process for producing alkylolated acrylamide-containing interpolymers. 3,163,-623, 12–29–64, Cl. 260—72.
Sekula, Leo F.: *See*—
Schultz, Dave R., and Sekula. 3,130,120.
Sekuzu, Ichiro: *See*—
Okunuki, Kazuo, Hagihara, Shin, and Sekuzu. 3,140,281.
Selas Corp. of America: *See*—
Blay, Justin S. 3,121,019.
Hess, Frederic O. 3,142,481.
Williams, John R. 3,125,327.
Selbert, Maurice R. Small, readily portable check or document protector. 3,127,832, 4–7–64, Cl. 101—.24.
Selby, James, to B. Eliott & Co. Ltd. Machine bearings. 3,149,890, 9–22–64, Cl. 308—187.
Selby, Max M.: *See*—
Kaplan, Benjamin D., and Selby. 3,121,514.
Select Enterprises, Inc.: *See*—
Raizk, Alexander and L. 3,157,235.
Selezniova, Galina A.: *See*—
Balitsky, Nicolay V., Volodin, Zmijevsky, Savchenko, Selezniova, Nepominiashtshy, and Tapeshkin. 3,146,475.
Self, Robert L.: *See*—
Petree, Edwyn H., Robbins, and Self. 3,141,492.
Self, Robert L., to Western Electric Co., Inc. Apparatus for connecting wire conductors to terminals. 3,122,826, 3–3–64, Cl. 29—203.
Selfon, Paul M. Automatic transfusion apparatus. 3,151,-616, 10–6–64, Cl. 128—214.
Selhost, Dale L., to American Air Filter Co., Inc. Bypass damper construction. 3,158,083, 11–24–64, Cl. 98—38.
Seliger, James M.: *See*—
Seliger, James M., and Hegar. 3,124,972.
Seliger, James M., and H. J. Hegar, to J. M. Seliger. Differential mechanism. 3,124,972, 3–17–64, Cl. 74—650.
Seliger, Victor H., to Sperry Rand Corp., Ford Instrument Co. Division. Signal derivative detection device. 3,119,070, 1–21–64, Cl. 328—114.
Seliger, Victor H., H. E. Lustig, and B. J. Heym, to Sperry Rand Corp., Ford Instrument Co. Division. All attitude aircraft fuel measuring system. 3,120,124, 2–4–64, Cl. 73—291.
Selin, Clifford E.: *See*—
Prater, John D., Maynard, Tuddenham, and Selin. 3,130,012.
Seline, Seaver A., Jr. Container and method of making same. 3,144,192, 8–11–64, Cl. 229—37.
Seling, Theodore V., to General Motors Corp. Microwave radiometer system. 3,129,330, 4–14–64, Cl. 250—83.3.
Seling, Theodore V., to General Motors Corp. Speed measuring system. 3,155,974, 11–3–64, Cl. 343—100.
Selis, Sidney M., and J. P. Wondowski, to General Motors Corp. Compact type high-power battery. 3,132,971, 5–12–64, Cl. 136—83.
Selke, William A., to Kimberly-Clark Corp. Air cleaner. 3,117,849, 1–14–64, Cl. 55—131.
Selke, William A., and J. H. Mathews, to Kimberly-Clark Corp. Electrically conductive paper and method of making it. 3,148,107, 9–8–64, Cl. 162—132.
Selkirk Metal Products: *See*—
Davidson, John H. C. 3,160,087.
Selkregg, Edward M., Jr., and R. C. Colligan, to B. Gloekler. Pallet rack. 3,152,670, 10–13–64, Cl. 189—36.
Sellars, Franklin T., and F. G. Weeden, Jr., to John L. Dore Co. Dip tube. 3,143,147, 8–4–64, Cl. 138—140.

Selleck, Harold P.: *See*—
Lohr, Thomas E., and Selleck. 3,125,318.
Sellers, Charles A., and J. N. Shaw. Cartridge powered spear gun. 3,139,692, 7–7–64, Cl. 42—1.
Sellers, Donald F., to Ling-Temco-Vought, Inc. Gyroscopic control apparatus. 3,158,340, 11–24–64, Cl. 244—79.
Sellers, G. W. Franklin: *See*—
Biles, James R., Nicely, and Sellers. 3,152,919.
Sellers, Glenn W.: *See*—
McLin, Frank D., and Sellers. 3,137,816.
Sellers, Walter J., and B. C. Leach. Pallet construction. 3,131,655, 5–5–64, Cl. 108—51.
Sellers, Woodrow W. Mercury switch mechanism for flashlights. 3,160,722, 12–8–64, Cl. 200—60.
Sellman, Albert H. Marine mine. 3,151,555, 10–6–64, Cl. 102—10.
Sellner, John W. Vehicle steering and drive means. 3,157,-243, 11–17–64, Cl. 180—77.
Sells, William P.: *See*—
Paine, Stuart R., Johnson, Mauch, and Sells. 3,123,837.
Sellstrom Mfg. Co.: *See*—
Anderson, Marshall N. 3,133,141.
Anderson, Marshall N. 3,156,922.
Selmeier, John P.: *See*—
Nash, Dudley O., and Selmeier. 3,154,920.
Selmer, Ernst S., to Burroughs Corp. Control apparatus for digital computers. 3,143,644, 8–4–64, Cl. 235—157.
Selmyhr, Garlen L. Ornamental plaque sword holder. 3,136,-513, 6–9–64, Cl. 248—37.6.
Selover, Theodore B., Jr.: *See*—
Grasselli, Robert, Selover, and Callahan. 3,135,807.
Sel-Rex Corp.: *See*—
Duva, Robert, Foulke, and Brenneman. 3,130,072.
Duva, Robert P., and Foulke. 3,156,634.
Foulke, Donald G. 3,156,635.
Sels, Francis, J.: *See*—
Claeys, Daniël A., Sels, Vrancken, and Willems. 3,149,-974.
Selset, Ronald S., to Beebe Bros., Inc. Foot brake for axially shiftable handwheel of hand-powered two-speed winch. 3,117,659, 1–14–64, Cl. 192—4.
Selset, Ronald S., to Beebe Bros., Inc. Quick-release positive hold for use with a towing winch having a pivoted dog. 3,126,985, 3–31–64, Cl. 188—82.7.
Selsted, Walter T., to Ampex Corp. Transducing apparatus. 3,131,844, 5–5–64, Cl. 226—168.
Selsted, Walter T., and R. E. Heller, to Ampex Corp. Tape transport mechanism. 3,127,120, 3–31–64, Cl. 242—55.12.
Selsted, Walter T., and J. A. Dinsmore, to Ampex Corp. Capstan construction. 3,141,593, 7–21–64, Cl. 226—193.
Seltz, Charles L.: *See*—
Gaskell, Walter L., and Seltz. 3,123,108.
Seltzer, David D., and G. J. Chuhran, to Martin-Marietta Corp. Strippable permanent thermographic test pattern. 3,161,038, 12–15–64, Cl. 73—15.4.
Seltzer, Moses: *See*—
Dennison, Saul L., M. and S. M. Seltzer, and L. S. Dennison. 3,146,030.
Seltzer, Norman L., to The Kendall Co. Woven stretchable fabrics. 3,145,132, 8–18–64, Cl. 161—90.
Seltzer, Norman L., to The Kendall Co. Absorbent textile fabric. 3,150,693, 9–29–64, Cl. 139—383.
Seltzer, Norman L., and C. R. Higgins, to The Kendall Co. Seamless pillowcase and fabric. 3,155,121, 11–3–64, Cl. 139—389.
Seltzer, Samuel M.: *See*—
Dennison, Saul L., M. and S. M. Seltzer, and L. S. Dennison. 3,146,030.
Selven, Rudolph D.: *See*—
Hedden, Harry L., and Selven. 3,124,981.
Selvin, Gerald J.: *See*—
Rasmanis, Egons, and Selvin. 3,139,600.
Selway, Rupert A.: *See*—
Cavalla, John F., and Selway. 3,136,778.
Cavalla, John F., and Selway. 3,144,463.
Selwitz, Charles M.: *See*—
Hay, Russell G., Meyer, and Selwitz. 3,129,255.
Hay, Russell G., Meyer, and Selwitz. 3,129,256.
Hay, Russell G., Meyer, and Selwitz. 3,134,822.
Semba, Masami, to Louis Marx & Co., Inc. Bird toy. 3,153,871, 10–27–64, Cl. 40—106.32.
Semco Research Inc.: *See*—
Cook, Ralph J. 3,144,966.
Cook, Ralph J. 3,153,531.
Semenoff, Robert H., and W. J. Donahue, to United States of America, Navy. Wafer switch having quick release connector. 3,158,060, 11–24–64, Cl. 89—1.5.
Semeraro, Russell J.: *See*—
Battista, Orlando A., and Semeraro. 3,120,233.
Semicon Associates, Inc.: *See*—
Koppius, Otto G. 3,118,080.
Sem-Jacobsen, Carl W., and N. E. Kaiser. Transistorized symmetrical differential alternating current amplifier. 3,153,203, 10–13–64, Cl. 330—30.
Semler, Gunther: *See*—
Dietz, Erich, Semler, and Siebert. 3,118,870.
Semmel, John W., Jr., to General Electric Co. Ductile niobium and tantalum alloys. 3,156,560, 11–10–64, Cl. 75—174.
Semmer, Joseph W., and F. A. Stich, to Automatic Electric Laboratories, Inc. Voltage regulating arrangement. 3,124,-698, 3–10–64, Cl. 307—51.
Semons, Miriam M. Convertible wearing apparel. 3,160,892, 12–15–64, Cl. 2—88.
Semonsen, Otto C. Radiator valves. 3,141,613, 7–21–64, Cl. 236—63.
Semple, Harton S.: *See*—
Gessler, Robert U. 3,163,554.
Semple, Richard H., Jr.: *See*—
Gessler, Robert U. 3,163,554.
Semple, William E., to International Business Machines Corp. Fiber printing. 3,128,336, 4–7–64, Cl. 178—6.6.
Semroc, Charles V.: *See*—
Wismer, Marco, and Semroc. 3,154,599.
Sem-Sandberg, Sverre G., to Telefonaktiebolaget L M Ericsson. Analog-to-digital converter. 3,134,971, 5–26–64, Cl. 340—347.
Semsel, Andrew M.: *See*—
Rauhut, Michael M., and Semsel. 3,148,206.
Sence, Leonard H., to Allis-Chalmers Mfg. Co. Canned motor pump. 3,128,712, 4–14–64, Cl. 103—87.
Sence, Leonard H., to Allis-Chalmers Mfg. Co. Nonclogging centrifugal pump. 3,130,679, 4–28–64, Cl. 103—103.
Sence, Leonard H., to Allis-Chalmers Mfg. Co. Thrust carrying arrangement for fluid handling machines. 3,160,108, 12–8–64, Cl. 103—112.
Sence, Leonard H., and I. J. Niemkiewicz, to Allis-Chalmers Mfg. Co. Bearings for motor pump units. 3,118,384, 1–21–64, Cl. 103—87.
Sendzimir, Tadeusz. Construction and control of planetary mills. 3,138,979, 6–30–64, Cl. 80—38.
Sendzimir, Tadeusz. Strip mill with roll cartridge. 3,147,-648, 9–8–64, Cl. 80—38.
Seneca Falls Machine Co.: *See*—
Cafolla, Constantine F. 3,145,598.
Eisengrein, Robert H. 3,125,714.
Eisengrein, Robert H. 3,136,936.
Eisengrein, Robert H. 3,142,018.
Seneca, Harry, to Bansen, Inc. 4-alkyl resorcinolates of aminoacridines. 3,122,553, 2–25–64, Cl. 260—279.
Senecal, Vance E., to E. I. du Pont de Nemours and Co. Extrusion die. 3,151,356, 10–6–64, Cl. 18—12.
Seneker, James A.: *See*—
Jen, Yun, and Seneker. 3,133,032.
Senfleben, Paul W., to United Shoe Machinery Corp. Apparatus for forming containers. 3,139,012, 6–30–64, Cl. 93—82.
Senfleben, Paul W., to United Shoe Machinery Corp. Heel attaching machines. 3,149,341 9–22–64, Cl. 1—335.
Senger, Horst: *See*—
Hermann, Joachim, and Senger. 3,156,185.
Senger, Norbert G. B., to Imperial Chemical Industries Ltd. New colouration process. 3,125,403, 3–17–64, Cl. 8—65.
Senger, Werner I.: *See*—
Fibikar, Robert J., and Senger. 3,159,059.
Senior, Bernard W.: *See*—
Custers, Jan F. H., Senior, Dyer, and Wedepohl. 3.124.-422.
Senior, Henry, and J. L. Holden, to The British Xylonite Co. Ltd. Method of producing a filled package. 3,148,489, 9–15–64, Cl. 53—14.
Senior, Robert, Jr., to Empire Products, Inc. Cable connector assembly. 3,143,384, 8–4–64, Cl. 339—59.
Senko, Andrew R. Mason's guide. 3,153,285, 10–20–64, Cl. 33—85.
Senn, Jurg A., to Robertshaw Controls Co. Magnetic control device having a magnetic force focusing means. 3,145,277, 8–18–64, Cl. 200—84.
Senn, Otto: *See*—
Forter, Willy, Senn, and Wehrli. 3,124,567.
Merian, Ernest, Nicolaus, Senn, and Wehrli. 3,134,766.
Merian, Ernest, and Senn. 3,130,190.
Merian, Ernest, and Senn. 3,153,643.
Senn, Otto, to Sandoz Ltd. Azo disperse dyestuffs of low water solubility. 3,122,533, 2–25–64, Cl. 260—207.
Senne, David L., J. W. Way, and J. J. Baker, to W. J. Voit Rubber Corp. Cushion ride water ski pad. 3,119,130, 1–28–64, Cl. 9—310.
Sennello, Joseph J., to Continental Can Co., Inc. Short sheet detector on coil stock shear. 3,138,047, 6–23–64, Cl. 83—106.
Sennewald, Kurt: *See*—
Born, Klaus, Sennewald, and Ohorodnik. 3,132,175.
Sennewald, Kurt, W. Vogt, J. Kandler, and R. Sommerfeld, to Knapsack-Griesheim Aktiengesellschaft. Process for the manufacture of unsaturated nitriles. 3,135,783, 6–2–64, Cl. 260—465.3.
Sennhauser, George J., and J. A. Burke, to The Chesapeake and Ohio Railway Co. Brake cylinder valve mechanism. 3,121,594, 2–18–64, Cl. 303—79.
Senninger, Earl J.: *See*—
Sanborn, William L., and Senninger. 3,130,909.
Senogles, Glen W. Roller attachment for "multilith" printing press. 3,150,589, 9–29–64, Cl. 101—350.
Sens, Fred T., to Owens-Corning Fiberglas Corp. Apparatus for melting heat-softenable materials. 3,150,225, 9–22–64, Cl. 13—6.
Sensenbaugh, Andrew L. Ratio mixing device. 3,135,498, 6–2–64, Cl. 259—48.
Sensenich, Earl W., to Irwin-Sensenich Corp. Railway car trucks. 3,133,508, 5–19–64, Cl. 105—4.
Sensenig, Miles L., to Sperry Rand Corp. Feeder. 3,162,300. 12–22–64, Cl. 198—211.

Sensi, Piero, and P. Margalith, to Lepetit S.p.A. Antibiotic rifamycin B and method of production. 3,150,046, 9–22–64, Cl. 167—65.

Senstad, Paul D., to Minneapolis-Honeywell Regulator Co. Nuclear resonant control apparatus. 3,140,440, 7–7–64, Cl. 324—.5.

Sensui, Nobuo, S. Aoki, and T. Yoshikawa, to Shibaura Kyodokogyo Kabushiki Kaisha (known as Shibaura United Engineering Co., Ltd.). Lubricant supply device. 3,129,787, 4–21–64, Cl. 184—7.

Sepall, Ola: *See*—
Logan, Kenneth C., and Sepall. 3,155,130.

Separator, Aktiebolaget: *See*—
Olsson, Per B. 3,159,138.
Ronbeck, Arne I. 3,140,533.
Sjoholm, Claes B. 3,119,325.
Thylefors, Henric W. 3,117,928.
Thylefors, Henric W. 3,145,172.
Wennerberg, Fritz J. 3,117,624.
Wennerberg, Fritz J. 3,150,028.
Wennerberg, Fritz J. 3,157,229.

Sepe, Manlio O. Scoring device. 3,122,851, 3–3–64, Cl. 40—70.

Seperack, Gertrude R., to The Warner Brothers Co. Brassiere. 3,120,848, 2–11–64, Cl. 128—510.

Sepp, Oscar W., Jr., to M. Steinthal & Co., Inc. Parachute. 3,136,508, 6–9–64, Cl. 244—145.

Sepp, Oscar W., Jr., to M. Steinthal & Co., Inc. Pilot chute deployment system. 3,145,955, 8–25–64, Cl. 244—113.

Seragnoli, Ariosto, to G. D. Societa in Accomandita Semplice di Enzo Seragnoli ed Ariosto Seragnoli. Canalizing conveyor system, particularly for packing machines. 3,140,772, 7–14–64, Cl. 198—32.

Seragnoli, Ariosto, to G. D. Societa in Accomandita Semplice di Enzo Seragnoli, & Ariosto Seragnoli. Machine for applying tear-strips upon a web of wrapping material. 3,146,152, 8–25–64, Cl. 156—519.

Serberlich, Joseph: *See*—
Swain, Lewis C. 3,157,484.

Serbia, Gonzalo, to Central Aguirre Sugar Co. Sugar recovery process and products. 3,130,082, 4–21–64, Cl. 127—46.

Serck-Hanssen, Klaus, to Elektrokemick A/S. Process for transmitting heat from hot fine-grained material to cold fine-grained material. 3,141,762, 7–21–64, Cl. 75—33.

Sereda, John W.: *See*—
Kashew, John A. 3,156,934.

Sereda, Josef C. Watering device for animals. 3,150,639, 9–29–64, Cl. 119—78.

Seredynski, Franciszek: *See*—
Bramley, Lionel N., Jenkins, Chant, and Seredynski. 3,139,569.

Seremak, Jerome, to General Electric Co. Electric oven. 3,146,338, 8–25–64, Cl. 219—403.

Sergan, Anthony J. Torque drive unit. 3,152,488, 10–13–64, Cl. 74—427.

Serge, Igor B., and P. S. Webb, to The Bendix Corp. Slot fed horn radiator with protective radome having polarization and resistance wires embedded therein. 3,146,449, 8–25–64, Cl. 343—704.

Sergeant, Frank N. M.: *See*—
Braithwaite, Robert C., and Sergeant. 3,123,755.

Serio, Anthony W., to Youngstown Steel Door Co. Detachable saucepan handle. 3,158,394, 11–24–64, Cl. 294—31.

Serio, Pasquale S., W. C. Agrell, and R. C. Lessner, to Thomas Industries Inc. Troffer with removable closure and adjusting means. 3,134,498, 5–26–64, Cl. 220—3.8.

Serlemitsos, Peter J.: *See*—
Reese, James H., and Serlemitsos. 3,136,034.

Serlemitsos, Peter J., to The Hamilton Watch Co. Coil testing device employing a D.C. balance circuit to measure the effect of the test coil loading on a transistor oscillator. 3,120,637, 2–4–64, Cl. 324—59.

Sero Mantero, Carlos G. Pyrophoric lighter. 3,130,568, 4–28–64, Cl. 67—7.1.

Seror, Albert Z. Tape dispenser. 3,140,805, 7–14–64, Cl. 225—66.

Serra, Anna. Liquid deionization apparatus permitting continuous operation. 3,136,719, 6–9–64, Cl. 210—190.

Serra, Juan D. Elastic seamless girdles. 3,138,162, 6–23–64, Cl. 128—521.

Serrahima, Miguel F.: *See*—
Feu, Miguel. 3,140,099.
Feu, Miguel. 3,140,752.

Serrano, Ricardo A. Necktie. 3,154,791, 11–3–64, Cl. 2—148.

Serrato, José C., Jr. Forearm rod for fractures. 3,118,444, 1–21–64, Cl. 128—92.

Serrell, Peter V. H., to Micro Technology Laboratories, Inc. Motion reduction apparatus. 3,133,649, 5–19–64, Cl. 214—1.

Serres, Carl, Jr., and E. K. Fields, to Standard Oil Co. Aromatic acids from petroleum fractions. 3,150,172, 9–22–64, Cl. 260—524.

Serres, Carl, Jr., and E. K. Fields, to Standard Oil Co. Aromatic polycarboxylic acids. 3,161,693, 12–15–64, Cl. 260—668.

Serrc Corp. of America: *See*—
Hansel, Paul G. 3,155,971.
Pelino, William M. 3,120,936.

Servage, Henri, to Moulinage et Retorderie de Chavanoz. Process for the production of fancy yarns having a three dimensional curl. 3,123,973, 3–10–64, Cl. 57—157.

Servage, Henri, to Moulinage et Retorderie de Chavanoz, S.A. Apparatus for manufacturing knop yarn. 3,133,401, 5–19–64, Cl. 57—18.

Serv-All Machinery Corp.: *See*—
Monaghan, Alfred C. 3,158,973.

Servanty, Pierre: *See*—
Marchal, Raymond H. F., and Servanty. 3,145,915.

Servel, Inc.: *See*—
Coleman, Joseph J., Wilke, and Vander Yacht. 3,143,441.
Wilke, Milton E., and Loverude. 3,129,118.

Service d'Exploitation Industrielle des Tabacs et des Allumettes: *See*—
Boinnard, Michel R. 3,137,110.

Service Distributors, Inc.: *See*—
Taylor, Christopher G. 3,140,766.

Service (Engineers) Ltd.: *See*—
Croshaw, Douglas W., Dowley, Roberts, and Patey. 3,146,552.

Service National dit: Gaz de France: *See*—
Biais, Maurice. 3,118,194.

Service Pipe Line Co.: *See*—
Boyle, Robert E. 3,120,118.

Service Poly-Pak, Inc.: *See*—
Shapiro, Morris, and Levy. 3,132,742.

Service, Robert J.: *See*—
Catlin, Robert T., Landa, Service, and Swain. 3,126,630.

Service, Robert J., and P. R. Haskell, to Remington Arms Co., Inc. Explosively actuated tool. 3,128,653, 4–14–64, Cl. 81—15.

Servo Corp. of America: *See*—
Beukers, John M. 3,121,871.
Gallagher, Cornelius A., and McDonald. 3,151,827.
Hansel, Paul G., Richter, and Paulstich. 3,129,392.
Hansel, Paul G., Richter, and Paulstich. 3,157,878.

Servomechanisms, Inc.: *See*—
Redemske, Ralph F., and Brady. 3,126,511.

Servonic Instruments, Inc.: *See*—
Burley, Charles W. 3,126,519.
De Julio, James A., and Mawson. 3,160,014.

Servoz-Gavin, Pierre: *See*—
Bonnet, Georges, Laffon, and Servoz-Gavin. 3,133,243.

Sessions, Cicero C.: *See*—
Willits, Myron H. 3,154,018.

Sessions Clock Co., The: *See*—
Wagner, Karl T. 3,123,192.

Sessions, Donald W. Marine craft including amphibious craft. 3,131,666, 5–5–64, Cl. 115—1.

Sessler, Gerhard M., and J. E. West, to Bell Telephone Laboratories, Inc. Electroacoustic transducer. 3,118,022, 1–14–64, Cl. 179—111.

Sessler, Gerhard M., and J. E. West, to Bell Telephone Laboratories, Inc. Electrostatic transducer. 3,118,979, 1–21–64, Cl. 179—111.

Sesso, Louis M., to S. C. Johnson & Son, Inc. Process for preparing quick release high-nitrogen fertilizer. 3,135,596, 6–2–64, Cl. 71—64.

Sesso, Louis M., and N. G. Mailander, to S. C. Johnson & Son, Inc. Aerosol compositions. 3,159,535, 12–1–64, Cl. 167—39.

Sessums, John W., Jr., to Lockheed Aircraft Corp. Hybrid rocket motor. 3,142,152, 7–28–64, Cl. 60—35.6.

Set Screw & Mfg. Co.: *See*—
Brown, Calvin O. 3,143,029.
Brown, Calvin O. 3,146,817.

Seta, Bruno. Tooth brush holder. 3,124,399, 3–10–64, Cl. 312—206.

Setco Industries, Inc.: *See*—
Falls, John J. 3,123,420.

Setecka, John C. Particle dispenser. 3,144,181, 8–11–64, Cl. 222—480.

Sethne, Norman C., to Gisholt Machine Co. Apparatus for plane separation and calibration in balancing machines. 3,116,643, 1–7–64, Cl. 73—466.

Setrin, Morton. Apparatus for suppressing side-lobe interrogations in transponder beacon systems. 3,122,737, 2–25–64, Cl. 343—6.5.

Setser, Donald D.: *See*—
Karpovich, John, and Setser. 3,151,679.

Settle, Haynes L.: *See*—
Terry, Trent B., and Settle. 3,134,108.

Settles, James C., to The Buckeye Steel Castings Co. Impact energy absorbing mechanism for railway vehicles. 3,163,299, 12–29–64, Cl. 213—8.

Settles, James C., to The Buckeye Steel Castings Co. Impact energy absorbing mechanism for railway vehicles. 3,163,300, 12–29–64, Cl. 213—8.

Settles, James C., to The Buckeye Steel Castings Co. Impact energy absorbing mechanism for railway vehicles. 3,163,301, 12–29–64, Cl. 213—8.

Setty, Donald G.: *See*—
Willcox, Charles E., and Setty. 3,145,494.

Setzler, Paul H., to Bell Intercontinental Corp. Bowl for vibratory machine. 3,118,253, 1–21–64, Cl. 51—7.

Seubert, William A., to Union Carbide Corp. Extrusion die. 3,162,896, 12–29–64, Cl. 18—12.

Seufert, Wilhelm, and R. Fritsch, to Werner & Pfleiderer. Method of and a device for granulating a plastic material. 3,140,511, 7–14–64, Cl. 18—1.

Seul, Vincenz: *See*—
Fischer, Fritz, Schmitt-Thomas, and Seul. 3,160,533.

Seulen, Gerhard W. Shielding means for an electromagnetic electrical contactor. 3,151,225, 9–29–64, Cl. 200—87.

Seurot, Max, to North American Philips Co., Inc. Monostable transistorized trigger circuit. 3,163,778, 12–29–64, Cl. 307—88.5.
Seuthe, Eberhard. Device for feeding the storage tanks of steam generators in toy locomotives. 3,124,174, 3–10–64, Cl. 141—284.
Seuthe, Eberhard. Device to produce steam for mobile and stationary toys. 3,160,980, 12–15–64, Cl. 46—9.
Sevald, Robert J., to W. T. Sevald. Bearing assembly. 3,157,-351, 11–17–64, Cl. 230—232.
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Severini, Carl T., to Callery Chemical Co. Preparation of boron fuels. 3,119,878, 1–28–64, Cl. 260—606.5.
Severino, Joseph A. Magnetic pour spout for cans. 3,159,321, 12–1–64, Cl. 222—570.
Severson, Asbjorn M., to Minneapolis-Honeywell Regulator Co. Controlled fluid unit. 3,144,208, 8–11–64, Cl. 237—8.
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Sevetz, Edward B., to United Aircraft Corp. Liquid-metal valve. 3,148,859, 9–15–64, Cl. 251—62.
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Seward, Harold H. Directionally sensitive light detector. 3,137,794, 6–16–64, Cl. 250—216.
Seward, William H., to Kangol Helmets Ltd. Buckles. 3,127,-650, 4–7–64, Cl. 24—68.
Sewell, John B. Buffing or polishing machines. 3,162,984, 12–29–64, Cl. 51—76.
Sewell, Walter W., to Ford Motor Co. Moldboard plows. 3,126,969, 3–31–64, Cl. 172—719.
Sewell, Warren, Clothing Co.: *See*—
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Sexton, Arthur D., to The Maytag Co. Gas-fired combination washer-drier. 3,116,916, 1–7–64, Cl. 263—33.
Sexton, Arthur R., to The Dow Chemical Co. Method for preparing salts of iminodiacetic acid. 3,153,668, 10–20–64, Cl. 260—534.
Sexton, Don W., N. E. Ball, and J. T. Davis, to Electro Instruments, Inc. R.M.S. meter using amplifier with controlled feedback. 3,159,787, 12–1–64, Cl. 324—99.
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Sexton, Robert W., to American Air Filter Co., Inc. Gas treating device and system. 3,134,825, 5–26–64, Cl. 261—16.
Sexton, Robert W., to American Air Filter Co., Inc. Dust separator. 3,155,474, 11–3–64, Cl. 55—418.
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Seyb, Edgar J., Jr., and A. J. Wallace, Jr., to M. & T. Chemicals Inc. Electrodeposition of bright tin-nickel. 3,141,836, 7–21–64, Cl. 204—43.
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Seyffarth, Richard. Roller support and guide mechanism for strip and sheet materials. 3,128,931, 4–14–64, Cl. 226—199.
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Seyfried, Arthur W., and C. L. Smader, to Scovill Mfg. Co. Motor driven food mixer. 3,121,178, 2–11–64, Cl. 310—50.
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Seymour, Donald E., and D. J. Ketteridge, to Smith & Nephew Research Ltd. Method of producing non-woven fabrics from thermoplastic film. 3,137,746, 6–16–64, Cl. 264—73.
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Seymour, George L. Fishing float. 3,159,941, 12–8–64, Cl. 43—43.11.
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Seymour, James E., and R. White, to Armour & Co. Treatment of phosphate rock. 3,150,957, 9–29–64, Cl. 71—37.
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Seymour, Samuel L., to Pittsburgh Plate Glass Co. Multifocal lens. 3,140,189, 7–7–64, Cl. 106—53.
Seymour, Samuel L., to Pittsburgh Plate Glass Co. Method for forming multifocal lens blanks. 3,149,948, 9–22–64, Cl. 65—39.
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Shaffer, Daniel H. Cement anchor bolt gauge. 3,150,429, 9–29–64, Cl. 25—118.
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Shaheen, John K. Feeding device. 3,147,739, 9–8–64, Cl. 119—51.5.

Shain, Edwin, to General Electric Co. Computer method and apparatus. 3,155,821, 11–3–64, Cl. 235—168.

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Shandel, Frederick. Rotatable impact wrenches and the like. 3,158,050, 11–24–64, Cl. 81—52.3.

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Shannon, Richard F., and F. P. McCombs, to Owens-Corning Fiberglas Corp. Continuous process for producing molding compounds. 3,158,519, 11–24–64, Cl. 156—180.

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Shansky, David, and W. Strohmeier, to Minneapolis-Honeywell Regulator Co. Inhibit pulse driver. 3,140,400, 7–7–64, Cl. 307—88.

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Shapiro, Elliot L., and E. P. Oliveto, to Schering Corp. Spiro-oxiranes of the pregnane series and methods for the manufacture thereof. 3,133,914, 5–19–64, Cl. 260—239.55.

Shapiro, Elliot L., and E. P. Oliveto, to Schering Corp. Process for preparing 2α-substituted-3-keto-Δ^4-steroids. 3,153,647, 10–20–64, Cl. 260—239.55.

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Shapiro, Justin J. Kite reel device. 3,143,316, 8–4–64, Cl. 242—96.

Shapiro, Leon S., A. V. Zakharov, and B. K. Zarign. Wheel system of wrist-watch mechanism with second hand in central position. 3,146,579, 9–1–64, Cl. 58—59.

Shapiro, Louis, to First Pennsylvania Banking and Trust Co., a trustee. Signal converting circuit. 3,137,805, 6–16–64, Cl. 315—30.

Shapiro, Morris, and L. Levy, to Service Poly-Pak, Inc. Merchandise bag and hanger combination. 3,132,742, 5–12–64, Cl. 206—45.34.

Shapiro, Roy A., and W. Shaw, to Bell Telephone Laboratories, Inc. Traffic data monitoring apparatus. 3,158,843, 11–24–64, Cl. 340—174.

Shapiro, Samuel. Applicator tip improvements. 3,121,905, 2–25–64, Cl. 15—552.

Shapiro, Seymour L., deceased (by F. M. Shapiro, executrix), and L. Freedman, to U.S. Vitamin & Pharmaceutical Corp. Process for preparation of o-hydroxyphenyltriazines, 3,119,823, 1–28–64, Cl. 260—249.9.

Shapiro, Seymour L., L. Freedman, and K. Weinberg, to U.S. Vitamin & Pharmaceutical Corp. Aminoalkyl ethers of 6-halobenzyl-5-indanol and 7-halobenzyl-4-indanol. 3,121,724, 2–18–64, Cl. 260—294.7.

Shapiro, Seymour L., L. Freedman, and M. J. Karten, to U.S. Vitamin & Pharmaceutical Corp. Novel 4-oxy-3-maleimidyl betaines. 3,129,225, 4–14–64, Cl. 260—247.2.

Shapiro, Seymour L., and L. Freedman, to U.S. Vitamin & Pharmaceutical Corp. Anti-viral biguanides. 3,131,128, 4–28–64, Cl. 167—78.

Shapiro, Seymour L., L. Freedman, and H. Soloway, to U.S. Vitamin & Pharmaceutical Corp. 2-(4-phenylpiperazinyl)-1-phenylethyl acetates. 3,135,756, 6–2–64, Cl. 260—268.

Shapiro, Seymour L., and L. Freedman, to U.S. Vitamin & Pharmaceutical Corp. N′-pyridylalkyl-N5-substituted biguanides. 3,147,271, 9–1–64, Cl. 260—296.

Shapiro, Seymour L., and L. Freedman, to U.S. Vitamin & Pharmaceutical Corp. N,N′-tetramethylene-bis(2,6-dimethylaniline). 3,148,216, 9–8–64, Cl. 260—570.5.

Shapiro, Seymour L., L. Freedman, and H. Soloway, to U.S. Vitamin & Pharmaceutical Corp. N-methylpiperazinocyclohexanol derivatives. 3,150,139, 9–22–64, Cl. 260—268.
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Shapiro, Sydney H., and F. Pilch, to Armour & Co. Preparation of tertiary aliphatic methyl amines. 3,136,819, 6–9–64, Cl. 260—583.
Shapiro, William J. Whirling toy with propeller. 3,124,897, 3–17–64, Cl. 46—51.
Shapland, John S., and E. J. Goldfarb, to Koehring Co. Granular material having an internal vapor extracting means. 3,125,423, 3–17–64, Cl. 34—92.
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Sharkey, John. Metallic weight exercising helmet. 3,128,095, 4–7–64, Cl. 272—80.
Sharkey, Robert V. Adjustable foot-restraining exercising device for attachment to the footboard of a bed. 3,134,592, 5–26–64, Cl. 272—58.
Sharko, Alexander, to FMC Corp. Strap tensioning tool. 3,129,728, 4–21–64, Cl. 140—93.2.
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Sharp, Floyd R. Ellipse protractors for mechanical drawings. 3,143,806, 8–11–64, Cl. 33—91.
Sharp, George H., A. Frenette, and F. W. Taggart, to Aviation Electric Ltd. Collimator for high energy radiation beams. 3,127,514, 3–31–64, Cl. 250—105.
Sharp, John J., to International Computers and Tabulators Ltd. Voltage amplitude detection apparatus. 3,123,776, 3–3–64, Cl. 328—116.
Sharp, John J., to International Computers and Tabulators Ltd. Voltage amplitude detection apparatus. 3,125,727, 3–17–64, Cl. 328—116.
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Sharp, Lorld G.: *See*—
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Sharp, Lorld G., to Socony Mobil Oil Co., Inc. High-pressure vaporization process of secondary recovery of hydrocarbon oil. 3,121,461, 2–18–64, Cl. 166—9.
Sharp, Lorld G., to Socony Mobil Oil Co., Inc. Method of secondary recovery of oil from reservoirs. 3,123,136, 3–3–64, Cl. 166—9.
Sharp, Lorld G., to Socony Mobil Oil Co., Inc. Miscible fluid displacement method of producing an oil reservoir. 3,129,-757, 4–21–64, Cl. 166—11.
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Sharp, Robert M., N. B. Kaigler, W. C. Atherton, and L. W. Stasney, Jr., to Esso Research and Engineering Co. Aeration of fluidized solids. 3,146,034, 8–25–64, Cl. 302—53.
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Sharpless, George R., to American Cyanamid Co. Attenuated live rabies vaccine and method of preparing the same. 3,156,620, 11–10–64, Cl. 167—78.
Sharpless, William M., to Bell Telephone Laboratories, Inc. Electronically tunable solid state oscillator. 3,141,141, 7–14–64, Cl. 331—107.
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Sharrow, Robert F., and B. D. Gubi, to General Electric Co. Method of manufacturing armatures. 3,126,618, 3–31–64, Cl. 29—155.53.
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Shatto, Howard L., Jr., to Shell Oil Co. Underwater manipulator for wells. 3,163,221, 12–29–64, Cl. 166—66.5.
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Shatto, Howard L., Jr., J. R. Dozier, and B. L. Goepfert, to Shell Oil Co. Ship control apparatus. 3,154,854, 11–3–64, Cl. 33—1.
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Shavel, John, Jr., to Warner-Lambert Pharmaceutical Co. 10-acyl yohimbanes and process therefor. 3,119,827, 1–28–64, Cl. 260—287.
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Shavel, John, Jr., to Warner-Lambert Pharmaceutical Co. 10-acyl derivatives of apoyohimbine and process therefor. 3,120,529, 2–4–64, Cl. 260—287.
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Shavel, John, Jr., and H. Zinnes, to Warner-Lambert Pharmaceutical Co. Process of preparing 10-brominated derivatives of yohimbane alkaloids. 3,120,535, 2–4–64, Cl. 260—288.
Shavel, John, Jr., and F. McMillan, to Warner-Lambert Pharmaceutical Co. Yohimbane derivatives. 3,120,536, 2–4–64, Cl. 260—288.
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Shavel, John, Jr., G. Bobowski, and M. von Strandtmann, to Warner-Lambert Pharmaceutical Co. Benzylideneyohimbanes. 3,139,428, 6–30–64, Cl. 260—240.
Shavel, John, Jr., M. von Strandtmann, and M. P. Cohen, to Warner-Lambert Pharmaceutical Co. Heterocyclic substituted indazole compounds and process therefor. 3,152,-135, 10–6–64, Cl. 260—294.7.
Shavel, John, Jr., and M. von Strandtmann, to Warner-Lambert Pharmaceutical Co. 18-hydroxymethylene derivatives of yohimbone. 3,159,623, 12–1–64, Cl. 260—240.

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Sherman, Jerome, J. E. Sharbaugh, W. L. Fauth, Jr., N. J. Palladino, and P. G. De Huff, to United States of America, Atomic Energy Commission. Fuel assembly support system for nuclear reactor. 3,158,543, 11–24–64, Cl. 176—17.
Sherman, John E., to Lockheed Aircraft Corp. Electronic arbitrary function generator. 3,119,012, 1–21–64, Cl. 235—197.
Sherman, Kenneth S., and C. R. Alexander, to Johnstone Pump Co., Inc. Pump for high viscosity fluids. 3,160,105, 12–8–64, Cl. 103—48.
Sherman, Norton L.: *See*—
Gallagher, Frank L., Spottiswoode, and Sherman. 3,152,-921.
Sherman, Orville B., to Owens-Illinois Glass Co. Fabricating objects from plastic materials in sheet or strip form. 3,126,306, 3–24–64, Cl. 156—187.
Sherman, Rallston M., to The Silent Glow Oil Burner Corp. Portable incinerator. 3,159,120, 12–1–64, Cl. 110—18.
Sherman, Rallston M., to The Silent Glow Oil Burner Corp. Portable incinerator. 3,160,122, 12–8–64, Cl. 110—18.
Sherman & Reilly, Inc.: *See*—
Sherman, Delmar C. 3,146,994.
Sherman, Richard G.: *See*—
Brown, Frank E., and Sherman. 3,158,183.
Sherman, Robert A., and L. H. Roberts, to Corrugating Technicians Inc. Multi-ply web forming apparatus with edge aligning means. 3,152,941, 10–13–64, Cl. 156—351.
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McClure, Robert E., and Shermer. 3,159,640.
Shernov, Albert. Combination sink stopper and water circulator. 3,123,835, 3–10–64, Cl. 4—286.
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Antoszewski, Eugeniusz, and Sherriff. 3,160,788.
Sherriffe, Louie H. Soap admixing and dispensing device. 3,157,320, 11–17–64, Cl. 222—251.
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Lund, John A. H., and Krantz. 3,124,838.
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Lund, John A. H., and Silins. 3,162,708.
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Tschirner, Henry J., and Williams. 3,127,264.
Zubryckyj, Nicolas. 3,162,587.
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Sherrod, Eugene L. Re. 25,568.
Sherron, Percival H. Telephone booth ceiling structure. 3,124,054, 3–10–64, Cl. 98—33.
Sherron, Percival H. Telephone booth ceiling structure including air circulating means. 3,132,578, 5–12–64, Cl. 98—39.
Sherron, Percival H. Telephone booth. 3,144,513, 8–11–64, Cl. 179—1.
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Norwood, James M., Jr., and Sherry. 3,133,794.
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Sherstiuk, Boris, to Automatic Electric Laboratories, Inc. Party line identification system. 3,140,353, 7–7–64, Cl. 179—17.
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Sherwood, Edwin T., and H. C. Ganiere, to Globe-Union Inc. Battery charging circuit with saturable reactor control. 3,130,359, 4–21–64, Cl. 320—39.
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Sherwood, William T., to Eastman Kodak Co. Low brightness indicator for camera. 3,143,047, 8–4–64, Cl. 95—10.
Sheth, Prabhakar R., and J. H. Wiley, to American Cyanamid co. Calcium phosphates in tablet compressing. 3,134,719, 5–26–64, Cl. 167—82.
Shetty, Bola V., to Wallace & Tiernan Inc. Substituted 3,5-dioxopyrazolidines and process for their manufacture. 3,135,764, 6–2–64, Cl. 260—310.
Shetty, Bola V., L. A. Campanella, and E. E. Hays, to Wallace & Tiernan Inc. Hydroxy and alkoxy aryl quinazolinones. 3,135,659, 6–2–64, Cl. 167—65.
Shevchenko, Richard P., to United Aircraft Corp. Thin land seal unit with steel type pressure regulator. 3,119,623, 1–28–64, Cl. 277—3.
Shevel, Wilbert L., Jr., to International Business Machines Corp. Magnetic computer element. 3,142,825, 7–28–64, Cl. 340—174.
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Shewmake, Glenn A., and M. I. Radnofsky, to United States of America, National Aeronautics and Space Administration. Life raft. 3,155,992, 11–10–64, Cl. 9—11.
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Shibata, Motoo, K. Nakazawa, M. Inoue, H. Hitomi, K. Mizuno, M. Fujino, A. Miyake, and T. Araki, to Takeda Chemical Industries, Ltd. Glumamycin and production thereof. 3,160,561, 12–8–64, Cl. 167—65.
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Shibaura United Engineering Co., Ltd.: *See*—
Sensui, Nobuo, Aoki, and Yoshikawa. 3,129,787.
Shibe, William J., Jr., and M. Sittenfield, to Hollichem Corp. Quaternary ammonium cyclic imides. 3,133,072, 5–12–64, Cl. 260—281.
Shibuya, Tetsuzo. Expansible linkage. 3,135,086, 6–2–64, Cl. 59—79.
Shick, Philip E., to Owens-Illinois Glass Co. Grease-resistant coating compositions. 3,146,117, 8–25–64, Cl. 106—270.
Shick, Wayne L. Device for orthographic-isometric projection. 3,157,951, 11–24–64, Cl. 33—77.
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Yates, Paul R. 3,124,205.
Shieh, Ming K., to Jeffrey Galion Mfg. Co. D.C. biased vibrator and control circuit. 3,142,011, 7–21–64, Cl. 318—133.
Shield, Lansing P., and G. A. Just, to Grocerette Vending Machines, Inc. Variable control means for dispensing equipment. 3,128,909, 4–14–64, Cl. 221—129.
Shields, Albert F., to S & S Corrugated Paper Machinery Co., Inc. Suction feeder. 3,130,650, 4–28–64, Cl. 93—49.
Shields, Dean W., to Budow Mfg. Co., Inc. Arm biasing construction for ring type debarkers. 3,128,806, 4–14–64, Cl. 144—208.
Shields, Donald J., and H. W. Coover, to Eastman Kodak Co. Crystalline N-alkyl acrylamide and methacrylamide polymers. Re. 25,645, 9–22–64, Cl. 260—88.1.
Shields, Harold L., and J. A. Goda, to Rogers and Ake Co. Data compilation. 3,137,356, 6–16–64, Cl. 177—25.
Shields, James J., to Continental Aviation and Engineering Corp. Disposable jet nozzle. 3,141,297, 7–21–64, Cl. 60—35.6.
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Shields, Walter A. Means for intermittently conveying vials. 3,152,684, 10–13–64, Cl. 198—107.
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Shields, Wayne S., Jr., to Gulf Oil Corp. Gravel packing apparatus. 3,134,439, 5–26–64, Cl. 166—51.
Shiels, Eugene F., to Dresser Industries, Inc. Trailer alignment bogey. 3,141,682, 7–21–64, Cl. 280—81.
Shiels, Robert T., Jr., and R. M. Zangler, Jr., to Anaconda Wire and Cable Co. Method of reeling and unreeling electric cable. 3,130,929, 4–28–64, Cl. 242—25.
Shiepe, Edward M. Computing apparatus. 3,132,799, 5–12–64, Cl. 235—61.

Shiepe, Edward M. Nomographic computing device. 3,134,-540, 5–26–64, Cl. 235—61.
Shiffman, Jerome. Tools for removing and fitting back plates of watches and watch crystals. 3,145,459, 8–25–64, Cl. 29—210.
Shifrin, Gordon A., to Hughes Aircraft Co. Toroidal transformer having a high turns ratio. 3,123,787, 3–3–64, Cl. 336—229.
Shiio, Isamu, K. Mitsugi, S. Otsuka, and T. Tsunoda, to Ajinomoto Kabushiki Kaisha. Process for producing L-glutamic acid. 3,117,915, 1–14–64, Cl. 195—30.
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Shildneck, Paul R., and M. L. Cushing, to A. E. Staley Mfg. Co. Filler retention in paper making by addition of carboxyalkyl starch ether. 3,151,019, 9–29–64, Cl. 162—175.
Shile, Raymond. Collapsible stacking material handling devices. 3,122,258, 2–25–64, Cl. 220—6.
Shile, Raymond, deceased; W. D. Shile, administratrix. Lightweight collapsible shipping containers. 3,150,791, 9–29–64, Cl. 220—6.
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Shiley, Donald P., and J. A. Malle, to Thompson Ramo Wooldridge Inc. Liquid hydrogen turbopump. 3,132,594, 5–12–64, Cl. 103—87.
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Shimada, Satoshi, to Sony Corp. Transformer circuit for balancing current flow through parallel semiconductors. 3,157,817, 11–17–64, Cl. 315—27.
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Shimanckas, William J., to Outboard Marine Corp. Radially shiftable single lever speed and clutch control device. 3,131,575, 5–5–64, Cl. 74—472.
Shimanckas, William J., to Outboard Marine Corp. Speed and push-button clutch control device. 3,131,795, 5–5–64, Cl. 192—.96.
Shimanckas, William J., to Outboard Marine Corp. Single lever control. 3,134,269, 5–26–64, Cl. 74—472.
Shimanckas, William J., to Outboard Marine Corp. Single lever electrical control. 3,139,767, 7–7–64, Cl. 74—472.
Shimanckas, William J., to Outboard Marine Corp. Coupling. 3,146,756, 9–1–64, Cl. 115—41.
Shimanckas, William J., to Outboard Marine Corp. Twin counter-rotating drive shaft engine. 3,148,557, 9–15–64, Cl. 74—378.
Shimano, Keizo. Bicycle hub having a built-in two-stage speed change mechanism. 3,135,368, 6–2–64, Cl. 192—6.
Shimazu, Seisakusho Co., Ltd.: *See*—
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Shimon, Wencel E. Shelters. 3,131,704, 5–5–64, Cl. 135—5.
Shimooka, Mike S. Automatic fluid pressure equalizing assembly. 3,120,854, 2–11–64, Cl. 137—98.
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Shinada, Toshio, and S. Oinuma, to Kabushiki Kaisha Kinsekisha Kenkyujo. Fork-shaped quartz oscillator for audible frequency. 3,128,397, 4–7–64, Cl. 310—9.5.
Shinada, Toshio, and S. Oinuma, to K.K. Kinsekisha Kenkyujo. Audio-frequency crystal vibrator. 3,131,320, 4–28–64, Cl. 310—9.6.
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Shinn Engineering Inc.: *See*—
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Shino, Masakazu. Method and apparatus for spinning frame. 3,117,409, 1–14–64, Cl. 57—67.
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Shipley, Clifford S.: *See*—
Connor, James E., Jr., and Shipley. 3,123,548.
Shipley, Eugene E., to General Electric Co. Pivotally disengageable coupling with indexing means. 3,132,731, 5–12–64, Cl. 192—67.
Shipley, Eugene E., and H. Sorensen, to General Electric Co. Flexible shafting. 3,138,010, 6–23–64, Cl. 64—1.
Shipman, Alan J., to Imperial Chemical Industries Ltd. Oxidation of aromatic compounds. 3,124,611, 3–10–64, Cl. 260—524.
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Shirk, Robert M., to Air Products and Chemicals, Inc. Fines removal from solids circulating system. 3,141,843, 7–21–64, Cl. 209—37.
Shirland, Fred A., to United States of America, Air Force. Vacuum evaporated barrier for a Cds crystal. 3,146,138, 8–25–64, Cl. 148—187.
Shirley, Robert L., and G. P. Speranza, to Jefferson Chemical Co., Inc. Preparation of primary amines. 3,128,311, 4–7–64, Cl. 260—585.
Shirman, Jack: *See*—
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Shirman, Jack, to General Dynamics Corp. Noise discriminator. 3,126,449, 3–24–64, Cl. 179—1.
Shirota, Minoru, N. Nagamatsu, and Y. Takechi. Method for cultivating lactobacilli. 3,123,538, 3–3–64, Cl. 195—48.
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Shive, William M., to General Electric Co. Multiple shipping container. 3,163,290, 12–29–64, Cl. 206—65.
Shively, Edward H., to Dielectric Products Engineering Co., Inc. Multiple probe impedance measuring device. 3,133,-245, 5–12–64, Cl. 324—58.
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Shlesinger, Bernard E., Jr. Rotatable and compressible multiple contact switch. 3,138,672, 6–23–64, Cl. 200—11.
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Shmitt, Selwyn, to Lumaside, Inc. Metal panels for building siding with joint for "lock up" or "pile on" installation. 3,150,464, 9–29–64, Cl. 50—218.
Shmorhun, John G., and E. H. Lenker, to United States of America, Navy. Torpedo motor mounting structure. 3,145,678, 8–25–64, Cl. 114—20.
Shoaf, Myron D.: *See*—
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Shoalts, Richard L. Furnace heating unit and blower control. 3,126,154, 3–24–64, Cl. 236—9.
Shoberg, Gustaf L.: *See*—
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Shoberg, Robert D., and E. J. Larsen, to Red Lake Laboratories, Inc. Photographic enlarging easel. 3,136,232, 6–9–64, Cl. 95—1.1.
Shobert, Samuel M. Plastic bearing. 3,131,979, 5–5–64, Cl. 308—238.
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Shockley, William, to Clevite Corp. Voltage regulating semiconductor device. 3,154,692, 10–27–64, Cl. 307—88.5.
Shockley, William, and R. N. Noyce, to Clevite Corp. Method of making a transistor structure. 3,140,206, 7–7–64, Cl. 148—186.
Shockley, William, and G. S. Horsley, to Clevite Corp. Voltage regulating semiconductor device. 3,140,438, 7–7–64, Cl. 323—22.
Shoemake, Estel S., H. T. Miser, and R. W. Shoemake. Dump trailer for automatic hay baler. 3,123,239, 3–3–64, Cl. 214—355.
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Shoemake, Estel S., Miser, and R. W. Shoemake. 3,123,239.
Shoemaker, Alvin H. Dry shaver having a rotatable shearing element and a reciprocable blade member. 3,143,797, 8–11–64, Cl. 30—43.5.
Shoemaker, Charles, Jr. Collapsible signal device. 3,132,624, 5–12–64, Cl. 116—63.
Shoemaker, Clifford L.: *See*—
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Shoemaker, Glenn B., to United States of America, Navy. Secant function generator. 3,145,298, 8–18–64, Cl. 235—197.
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Shoemaker, Joseph B. Scaffolding. 3,134,567, 5–26–64, Cl. 248—243.
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Shoemaker, William E., to California Research Corp. Very fast servo plotter. 3,129,405, 4–14–64, Cl. 340—15.5.
Shoenfeld, Harold. Double acting door lock. 3,129,967, 4–21–64, Cl. 292—25.
Shoenfeld, Harold. Radiation protective panels. 3,134,020, 5–19–64, Cl. 250—108.
Shofer, Richard. Food dispenser. 3,142,267, 7–28–64, Cl. 107—1.
Shoham, Abraham, to Ein-Hachoresh Kibbutz Hashomer Hayair Lehityashrut Shitufit B.M. Safety means for ventilated closed chambers. 3,142,245, 7–28–64, Cl. 98—43.
Shohan, Elliot. Pipe coupler. 3,162,469, 12–22–64, Cl. 285—5.
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Shoji, Saburo, and S. Hasegawa, to Kanda Tsushin Kogyo Kabushiki Kaisha. Automatic telephone calling system. 3,135,834, 6–2–64, Cl. 179—90.
Shokal, Edward C., and G. A. Short, to Shell Oil Co. Process for polymerizing unsaturated monomers with a catalyst containing a metal salt plated on a metal. 3,125,559, 3–17–64, Cl. 260—93.7.
Shokal, Edward C., P. A. Devlin, and D. E. Winkler, to Shell Oil Co. Addition polymers of alkenyl epoxy ethers, ethylenically unsaturated alcohols and monoethylenically unsaturated hydrocarbons, and cured products prepared therefrom. 3,156,674, 11–10–64, Cl. 260—80.7.
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Jones, Charles E., and Sholl. 3,151,226.
Sholtes, George T.: *See*—
Kendt, Norman L., and Sholtes. 3,150,904.
Shombert, Donald J., to Merck & Co., Inc. Semiconductor radiation detector. 3,131,305, 4–28–64, Cl. 250—83.3.
Shombert, Donald J., to Merck & Co., Inc. Semiconductor solid circuit including at least two transistors and Zener diodes formed therein. 3,153,731, 10–20–64, Cl. 307—88.5.
Shomock, Joseph J., to Dunhill International, Inc. Liquid conductor heating devices. 3,119,925, 1–28–64, Cl. 219—40.
Shonka, Francis R., to United States of America, Atomic Energy Commission. Electrometer utilizing A.-C. and D.-C. voltage balancing. 3,133,248, 5–12–64, Cl. 324—109.
Shonka, Francis R., to United States of America, Atomic Energy Commission. Electrometer having flexible electrodes and flexible fiber. 3,156,869, 11–10–64, Cl. 324—109.
Shonka, Valerian L.: *See*—
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Shook, Alvin L. Cases for photographic film. 3,155,264, 11–3–64, Cl. 220—4.
Shook, Carl G., to General Dynamics Corp. Storage wire erase. 3,154,767, 10–27–64, Cl. 340—174.
Shook, Clarence E., and B. E. Smith. Overdrive conversion unit and method of using same. 3,122,029, 2–25–64, Cl. 74—606.
Shook, Earley M., to Socony Mobil Oil Co. Identification of the time of arrival of seismic events. 3,123,799, 3–3–64, Cl. 340—15.5.
Shook, Granville D. Lumber grade marker. 3,140,656, 7–14–64, Cl. 101—35.
Shook, Jackson A.: *See*—
Moorhead, John P., and Shook. 3,151,572.
Shoquist, Robert H., to Warner Electric Brake & Clutch Co. Friction coupling. 3,149,705, 9–22–64, Cl. 192—35.
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Shore, Charles. Safety ladder. 3,127,953, 4–7–64, Cl. 182—106.
Shore, Charles. Collapsible clothesline dryer. 3,139,190, 6–30–64, Cl. 211—178.
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Shore, James B., to Schlumberger Well Surveying Corp. Method of manufacturing a cylindrical magnetic orienting device. 3,153,277, 10–20–64, Cl. 29—155.59.
Shore, James R.: *See*—
Hoven, Alfred C., Lindberg, Nordmark, and Shore. 3,137,527.
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Gustafson, Walter R., McMillen, Rounding, and Shore. 3,160,846.
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Short, Acree E. Dual line chalk box. 3,126,637, 3–31–64, Cl. 33—87.
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Conway, Hugh G., and Bowden. 3,150,849.
Fillery, William J. 3,122,937.
Fleck, William. 3,162,399.
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Short, Charles D., to Kee Lox Mfg. Co. Marking tape. 3,135,533, 6–2–64, Cl. 282—19.
Short, Donald H., and R. J. Walker. Building structure. 3,146,497, 9–1–64, Cl. 20—2.
Short, Glen A.: *See*—
Shokal, Edward C., and Short. 3,125,559.
Short, Harold O.: *See*—
Boehm, Arthur S., Riley, and Short. 3,144,912.
Short, Harold O., to The Black and Decker Mfg. Co. Power-driven tool for drilling or impact-drilling. 3,119,274, 1–28–64, Cl. 74—22.
Short, Harold O., to The Black and Decker Mfg. Co. Lubricator for a motion-translating mechanism. 3,162,268, 12–22–64, Cl. 184—5.
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Short, Cecil L. 3,161,894.
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Short, Joe T., to Draper Corp. Terry reed motion. 3,136,342, 6–9–64, Cl. 139—26.
Short, Joe T., to Callaway Mills Co. Shedding mechanism for a loom. 3,144,883, 8–18–64, Cl. 139—55.
Short, Lot W., to Drilling & Service, Inc. Blade-type drill bit. 3,153,458, 10–20–64, Cl. 175—329.
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Short, Thomas A. Deck winch. 3,145,974, 8–25–64, Cl. 254—150.

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Shortt, William H., to Devon Instruments Ltd. Means for maintaining the motion of a train of wheelwork. 3,154,913, 11–3–64, Cl. 60—7.
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Shotts, Adolph C., and J. R. Motes, to Cities Service Research & Development Co. Oxidation of aldehydes to carboxylic acids using a catalyst comprising cobalt naphthenate and a cobalt chelate. 3,155,719, 11–3–64, Cl. 260—530.
Shotts, Adolph C., and B. M. Lloyd, to Cities Service Research and Development Co. Disproportionation reaction of alpha beta-ethylenically aldehydes in the presence of a silver catalyst. 3,162,682, 12–22–64, Cl. 260—523.
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Shove, Henry L., to General Electric Co. Forced air cooled refrigerator. 3,126,721, 3–31–64, Cl. 62—408.
Showalter, Dennis J., Sr Canopy assemblies. 3,143,827, 8–11–64, Cl. 50—67.
Showalter, Edward W., Jr. Method of making a commutator strip plate. 3,148,439, 9–15–64, Cl. 29—155.54.
Showers, Lewis M., Jr., and C. T. Biscardi. Double acting brake adjuster. 3,156,326, 11–10–64, Cl. 188—196.
Showler, Donald H. Boat loading device. 3,155,257, 11–3–64, Cl. 214—450.
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Koletsos, Peter K., and Shrewsbury. 3,140,138.
Shrewsbury, George R., to Reliable Electric Co. Tangent support for messenger cable. 3,141,643, 7–21–64, Cl. 248—74.
Shride, Frank E., and P. V. Spakowsky. Safety release wrist strap assembly for a ski pole. 3,163,436, 12–29–64, Cl. 280—11.37.
Shrimplin, Frank E., and V. W. Swan, to Heated Concrete Products, Inc. Heating assembly. 3,144,545, 8–11–64, Cl. 219—213.
Shrimplin, Ray E. Door assembly for self-feeder structure. 3,125,070, 3–17–64, Cl. 119—53.5.
Shriro, Morris A. Ultra-high temperature potentiometer. 3,134,084, 5–19–64, Cl. 338—162.
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Shrubsall, Harry I., to Union Carbide Corp. Arc welding, compositions and method of making same. 3,152,019, 10–6–64, Cl. 148—26.
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Shuart, Stanley R., A. M. Gessler, and R. S. Hawley, to Esso Research and Engineering Co. Processing isoolefin-diolefin rubbery copolymers with kaolin clays. 3,123,581, 3–3–64, Cl. 260—41.5.
Shubart, Harry S., and J. A. Dlouhy, to Emil J. Paidar Co. Barber chair with frame structure. 3,140,892, 7–14–64, Cl. 297—80.
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Shulgin, Alexander T.: *See*—
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Shulgin, Alexander T., to The Dow Chemical Co. Insecticidal lactones. 3,133,938, 5–19–64, Cl. 260—343.6.
Shulgin, Alexander T., to The Dow Chemical Co. Heterocyclic dimalonitriles. 3,134,780, 5–26–64, Cl. 260—268.
Shulgin, Alexander T., to The Dow Chemical Co. Dimalononitriles. 3,149,150, 9–15–64, Cl. 260—465.5.
Shulgin, Alexander T., to The Dow Chemical Co. Process for preparing tetrahalomuconic acids. 3,153,669, 10–20–64, Cl. 260—537.
Shull, Daniel S., Jr., to Westinghouse Electric Corp. Process for producing sheets of magnetic materials. 3,148,092, 9–8–64, Cl. 148—103.
Shull, Peter O., to General Aniline & Film Corp. Process of removing formaldehyde from 1,4-butynediol. 3,130,236, 4–21–64, Cl. 260—637.
Shulman, Abe, and A. L. Vogt, to Wells-Gardner Electronics Corp. Combined picture width and high voltage control circuit for television receiver. 3,134,045, 5–19–64, Cl. 315—27.
Shulman, Joseph, and J. T. Howarth, to Arthur D. Little, Inc. Waterproof plastic films of increased water vapor permeability and method of making them. 3,137,664, 6–16–64, Cl. 260—17.4.
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Shultz, Eugene B., Jr., and H. R. Linden, to Institute of Gas Technology. Heating furnace. 3,150,657, 9–29–64, Cl. 126—110.
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Shumake, James E. Reel for unwinding coils. 3,118,634, 1–21–64, Cl. 242—129.
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Shuman, Frank R., Jr., to Sun Oil Co. Process for fractionating polyolefins. 3,141,009, 7–14–64, Cl. 260—88.2.
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Shun, Mak. Toy water pistols. 3,146,911, 9–1–64, Cl. 222—79.
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Shuping, James A., to United States of America, Air Force. Optical sight displacing glass. 3,145,248, 8–18–64, Cl. 88—1.
Shupp, Laurence N., to Union Tank Car Co. Welding apparatus. 3,134,014, 5–19–64, Cl. 219—126.
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Shurter, Robert A., Jr., C. D. Goodale, and J. L. Martin, to Commercial Solvents Corp. Production of anhydrous nitrogen solutions. 3,117,858, 1–14–64, Cl. 71—59.
Shurts, Wilbur F., and J. B. Snoy, to Twin Disc Clutch Co. Booster pressure control for liquid systems. 3,155,040, 11–3–64, Cl. 103—35.
Shurtz, Robert F., to Basic Inc. Method of and apparatus for feeding ground materials. 3,123,407, 3–3–64, Cl. 302—53.
Shusman, Tevis, and E. C. Chapin, to Monsanto Co. Suspension polymerization of styrene using pinacolon peroxide and suifonated polystyrene. 3,153,026, 10–13–64, Cl. 260—93.5.
Shuster, Jacob. Transmission control systems. 3,120,763, 2–11–64, Cl. 74—472.
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Sibley, John R., to Joy Mfg. Co. Scroll type full face continuous miner. 3,128,998, 4–14–64, Cl. 262—9.

Sibley, John R., to Joy Mfg. Co. Mining apparatus having adjustable boring head. 3,148,918, 9–15–64, Cl. 299—59.

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Sichak, William, to International Telephone and Telegraph Corp. Diversity system. 3,144,647, 8–11–64, Cl. 343—100.

Sichak, William, and R. O. Schildknecht, to Sichak Associates. Communication system with automatic antenna beam steering. 3,140,490, 7–7–64, Cl. 343—100.

Sickbert, Adolf, to Bochumer Verein fuer Gusstahlfabrikation Aktiengesellschaft. Degasification of metal. 3,146,503, Cl. 22—85.

Sickel, Helmut, P. Schierse, and G. Fianke, to Ewers & Miesner Hartgusswerk und Maschinen-Fabrik G.m.b.H. Air duct valve for shelter. 3,139,811, 7–7–64, Cl. 98—119.

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Sidell, Philip A., and W. C. Schaffrick, to The Ingraham Co. Electric motor and method of making same. 3,146,-363, 8–25–64, Cl. 310—83.

Sidelman, Abraham, to H. Goodman & Sons, Inc. Hair foundation frame and method of using. 3,126,015, 3–24–64, Cl. 132—7.

Sidelman, Abraham, to H. Goodman & Sons, Inc. Hair foundation including brush means. 3,126,017, 3–24–64, Cl. 132—54.

Sidelman, Abraham, to H. Goodman & Sons, Inc. Hair foundation. 3,126,018, 3–24–64, Cl. 132—54.

Sidelman, Abraham, to H. Goodman & Sons, Inc. Hair foundation including brush means. 3,126,019, 3–24–64, Cl. 132—54.

Sidelman, Abraham, to H. Goodman & Sons, Inc. Hair foundation including brush means. 3,126,020, 3–24–64, Cl. 132—54.

Sidenbender, William, and C. L. Gilliland. Quick closing valve. 3,134,569, 5–26–64, Cl. 251—214.

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Sidwell, John M., and J. F. Werner, to The General Electric Co. Ltd. Resonant isolator composed of a biased gyromagnetic element between crossed conductors differing in length by an odd number of quarter wavelengths to common junction. 3,125,732, 3–17–64, Cl. 333—24.2.

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Siebein, Walter A., and A. J. Rotolico, to Metco Inc. Plasma flame generator and spray gun. 3,145,287, 8–18–64, Cl. 219—75.

Siebel, J. E., Sons Co., Inc.: *See*—
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Siebel, Mathias P. L., to Pall Corp. Magnetic pressure indicator. 3,140,690, 7–14–64, Cl. 116—70.

Siebelt, Raymond J. Adjustable container seal cover. 3,129,842, 4–21–64, Cl. 220—93.

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Siebenberg, Max. Photographic accessory. 3,135,184, 6–2–64, Cl. 95—36.

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Sieber, Heinrich, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of 4,5-dichloro- and 4,5-dibromo-naphthalene-1,8-dicarboxylic acids and their anhydrides. 3,163,659, 12–29–64, Cl. 260—345.52.

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Silken, Howard. Circle cutter for use with powered hand drills. 3,124,182, 3–10–64, Cl. 145—121.
Silker, Wyatt B., to United States of America, Atomic Energy Commission. Nuclear reactor operation. 3,137,634, 6–16–64, Cl. 176—39.
Silkman, Harry G., to United States of America, Navy. Cooled modular electronic package. 3,141,998, 7–21–64, Cl. 317—100.
Silks, Walter, and C. J. Arndt, to Goodman Mfg. Co. Conveyor structure for continuous mining machines. 3,149,882, 9–22–64, Cl. 299—56.
Sill, Donald O., to Delavan Mfg. Co. Hydraulic atomizing spray gun. 3,130,910, 4–28–64, Cl. 239—404.
Sill, Gustave A., W. D. Weatherford, Jr., and C. L. Wolfe, to Gulf Research & Development Co. Apparatus for the automatic detection of recurring maximum and minimum values of fluctuating variable or signal. 3,118,057, 1–14–64, Cl. 235—183.
Sill, MacDonald, to Bell Aerospace Corp. Thrust chamber catalyst structure. 3,135,703, 6–2–64, Cl. 252—474.
Sill, Richard H., to E. I. du Pont de Nemours and Co. Thermoplastic polymeric films. 3,161,532, 12–15–64, Cl. 117—68.
Sillcox, Edward L.: *See*—
Olson, Mark W., and Sillcox. 3,121,914.
Silldorff, Claus O.: *See*—
Ricketts, Russell D., and Silldorff. 3,124,788.
Silliman, Sheldon D., and J. F. Reuther, to Westinghouse Electric Corp. Annunciators with manual reset. 3,128,-456, 4–7–64, Cl. 340—226.
Silliman, Sheldon D., and D. L. Griscom, to Westinghouse Electric Corp. Time delay circuit. 3,144,568, 8–11–64, Cl. 307—132.
Silliman, Sheldon D., and C. L. Cadwell, to Westinghouse Electric Corp. Supervisory remote control apparatus. 3,146,456, 8–25–64, Cl. 340—163.
Silman, David, to United Merchants and Mfg. Inc. Self-adhesive decorative surface covering material. 3,130,113, 4–21–64, Cl. 161—97.
Silombra, Armando. Method of manufacturing rubber boots. 3,148,395, 9–15–64, Cl. 12—142.
Silombra, Armando. Apparatus for manufacturing rubber boots. 3,162,875, 12–29–64, Cl. 12—1.
Silopark S.A.: *See*—
Bianca, Edoardo G. 3,132,752.
Silson, John E., and J. Frangos, to Revlon, Inc. Aerosol composition. 3,155,574, 11–3–64, Cl. 167—54.
Silva, John D., to Paramount Television Productions, Inc. Video tape editing system. 3,123,668, 3–3–64, Cl. 178—6.8.
Silva, Joseph W., to Olin Mathieson Chemical Corp. Abattoir device. 3,127,836, 4–7–64, Cl. 102—41.
Silven, Herbert A., and R. W. Anderson, to Norton Co. Machine for grinding large hollow cylinders. 3,136,095, 6–9–64, Cl. 51—95.
Silver, Alexander: *See*—
Abrams, Edward F., and Silver. 3,133,721.
Silver, Alexander, to The Garrett Corp. Super conductor-power transmission system. 3,162,716, 12–22–64, Cl. 174—15.
Silver, Bernard R., and A. Cilione, to Rau Fastener Co. Hook and eye structure. 3,120,045, 2–4–64, Cl. 24—225.
Silver, Bertram S. Swivel chair or like articles of furniture. 3,142,471, 7–28–64, Cl. 248—417.
Silver Corp.: *See*—
Steele, Clarence R. 3,137,334.
Silver, Derrick J., to Mentmore Mfg. Co. Ltd. Self-filling fountain pens. 3,116,719, 1–7–64, Cl. 120—50.
Silver, Derrick J., to Mentmore Mfg. Co. Ltd. Reservoir marking instruments. 3,153,804, 10–27–64, Cl. 15—569.
Silver, Irving: *See*—
Hubbartt, James E., Silver, and Inman. 3,128,549.
Silver, Julian, to Louis Marx & Co., Inc. Electric motor-driven convertible wood machine shop toy. 3,128,805, 4–14–64, Cl. 144—1.
Silver, Julian. Peripherally secured pleated shrouding. 3,146,784, 9–1–64, Cl. 135—1.
Silver, Julian, to Instant Fold Products, Inc. Protective garment. 3,161,887, 12–22–64, Cl. 2—88.
Silver Knitting Machine Mfg. Co., Inc.: *See*—
Hiromatsu, Hideaki. 3,124,946.
Silver, Roger C.: *See*—
De Puydt, Frank A., and Silver. 3,119,629.
De Puydt, Frank A., and Silver. 3,132,878.
Silver Service Corp.: *See*—
Roberts, Donald E. 3,134,203.
Silver, Sidney C. Frequency modulation signal detection system. 3,118,970, 1–21–64, Cl. 178—5.8.
Silver, Stan M. Cigarette box construction. 3,163,349, 12–29–64, Cl. 229—44.
Silver, Theodore J.: *See*—
Kramer, Martin R., and Silver. 3,140,606.
Silverberg, Michael: *See*—
Haring, Lewis L., and Silverberg. 3,155,849.
Silverberg, Morton: *See*—
Welsh, Herbert F., Appleton, and Silverberg. 3,159,256.
Silverberg, Morton, to Radio Corp. of America. Electrical circuit having voltage divider effecting priming and gates effecting sequence. 3,147,387, 9–1–64, Cl. 307—88.5.
Silverling, Donald. Amusement device with gun and apertured target. 3,127,173, 3–31–64, Cl. 273—101.
Silverman, Benjamin B. Branch fitting for pipes. 3,159,-413, 12–1–64, Cl. 285—189.
Silverman, Daniel: *See*—
Eisler, Joseph D., and Silverman. 3,131,633.
Silverman, Daniel, to Pan American Petroleum Corp. Explosive charge unit. 3,150,590, 9–29–64, Cl. 102—21.6.
Silverman, Daniel. Information retrieval systems. 3,158,-846, 11–24–64, Cl. 340—174.1.
Silverman, Daniel, to Pan American Petroleum Corp. Seismic surveying utilizing models. 3,159,231, 12–1–64, Cl. 181—.5.
Silverman, Daniel, and C. F. Hadley, to Pan American Petroleum Corp. Seismic analog record computer. 3,142,750, 7–28–64, Cl. 235—184.
Silverman, Ely: *See*—
Franks, Charles G. 3,130,947.
Silverman, Harold, to Maid-Rite Novelty Corp. Embossed shoulder straps. 3,153,245, 10–20–64, Cl. 2—338.
Silverman, Harold, to Maid-Rite Novelty Corp. Embossed shoulder straps. 3,153,246, 10–20–64, Cl. 2—338.
Silverman, Harold I.: *See*—
Doczi, John, Ninger, and Silverman. 3,155,575.
Silverman, Herman: *See*—
Silverman, Ira. 3,149,072.
Silverman, Ira: *See*—
Van den Broek, William A., and Silverman. 3,139,067.
Silverman, Ira, 50% to H. Silverman. Liquid clarification apparatus. 3,149,072, 9–15–64, Cl. 210—232.
Silverman, Jacob: *See*—
Bauerle, George L., Ahlert, and Silverman. 3,127,735.
Silverman, Jerry S. Transportation apparatus. 3,125,964, 3–24–64, Cl. 104—89.
Silverman Joseph, to W. R. Grace & Co. Halogenation of irradiated polymers. 3,156,636, 11–10–64, Cl. 204—154.
Silverman, Milton J. Devices for handling cargo containers and pallets. 3,138,398, 6–23–64, Cl. 294—67.
Silverman, Morris B., to California Research Corp. Process for increasing the hydrocracking activity of a supported nickel catalyst using phosphorous pentafluoride. 3,144,414, 8–11–64, Cl. 252—437.
Silverman, Morris B., to California Research Corp. Process for increasing the hydrocracking and hydrogenating activity of a supported nickel catalyst using phosphine. 3,144,415, 8–11–64, Cl. 252—437.
Silverman, Murray H., to United States of America, Navy. Method and means for reducing hydrodynamic noise. 3,161,167, 12–15–64, Cl. 114—20.
Silverman, Murray H., to United States of America, Navy. Hydrodynamic noise reduction. 3,162,163, 12–22–64, Cl. 114—20.
Silvern, David H. Heating and air conditioning apparatus. 3,153,442, 10–20–64, Cl. 165—50.
Silvers, Jerry J., L. and A. Rosenblatt, and C. S. Vossbrink, to Globe Illumination Co. Illumination fixtures. 3,117,-729, 1–14–64, Cl. 240—51.11.
Silverschotz, Stanford B., to International Telephone and Telegraph Corp. Automatic mail sorting system. 3,136,-424, 6–9–64, Cl. 209—111.5.
Silversjo, Kurt E. S.: *See*—
Janson, Knut S. T., Jeppsson, and Silversjo. 3,145,340.
Silverstein, Abraham. Diverse type underwater antennas responsive to electric and magnetic field components. 3,121,-229, 2–11–64, Cl. 343—709.
Silverstein, Abraham, to United States of America, Navy. Releasable coupling means. 3,139,032, 6–30–64, Cl. 102—49.
Silverstein, Harry: *See*—
Sanfilippo, Salvatore G., Gordon and Silverstein. 3,133,040.
Silverstein, Paul. Label printing and dispensing machine. 3,146,149, 8–25–64, Cl. 156—385.
Silverstein, Robert M., and F. R. Mayo, to United States of America, Air Force. Gelation inhibitors for silicone oils. 3,146,202, 8–25–64, Cl. 252—49.6.

Silveston, Barnett, to Tippetts-Abbett-McCarthy-Stratton. Fluid loading rig. 3,154,118, 10–27–64, Cl. 141—388.
Silveston, Peter L.: *See*—
Jahnig, Charles E., Silveston, and Tyson. 3,163,496.
Silvestre, Sabino. Flexible hanging curtains. 3,155,150. 11–3–64, Cl. 160—348.
Silvestri, Achille, to United States of America, Navy. Indicator composition. 3,119,780, 1–28–64, Cl. 252—408.
Silvestri, Michael A.: *See*—
Goldstein, Herman B., Silvestri, and Simonian. 3,116,-967.
Silvestrini, Bruno: *See*—
Palazzo, Giuseppe, and Silvestrini. 3,141,019.
Silvey, Gene A.: *See*—
Brock, Geoffrey E., and Silvey. 3,162,557.
Silvray Lighting, Inc.: *See*—
Dunckel, Bruce G. 3,131,958.
Sim, Gordon, to Teletype Corp. Code altering device. 3,145,-919, 8–25–64, Cl. 234—22.
Sim, Gordon, to Teletype Corp. Carriage decelerating mechanism for telegraph page printers. 3,163,261, 12–29–64, Cl. 188—94.
Sim, Gordon, and R. A. Thienemann, to Teletype Corp. Tape perforator. 3,145,921, 8–25–64, Cl. 234—102.
Simak, Frank J.: *See*—
Brudnak, Andrew, Jr., and Simak. 3,142,342.
Simamura, Osamu, Y. Tsuchiya, T. Takenishi, T. Kato, H. Mori, and T. Meguro, to Ajinomoto Co., Inc. Process for the preparation of 2′,3′-isopropylidene ribonucleosides. 3,160,625, 12–8–64, Cl. 260—211.5.
Simard, Henri G.: *See*—
Martin, William H., and Simard. 3,159,342.
Simca Automobiles: *See*—
Cauvin, André. 3,138,148.
Simco Co., Inc.: *See*—
Schweriner, Harold. 3,120,626.
Schweriner, Harold. 3,137,806.
Schweriner, Harold. 3,156,847.
Sime, Sylvan H. Animal feed conveying, blending and distributing apparatus. 3,116,716, 1–7–64, Cl. 119—52.
Sime, Sylvan H. Silo unloader. 3,144,144, 8–11–64, Cl. 214—17.
Simeca S.A.: *See*—
Rossetti, Charles. 3,127,816.
Simek, Jerry V.: *See*—
Clark, Richard E., Simek, and Veale. 3,123,317.
Simek, Joseph, E. J. Strojny, and A. H. Widiger, Jr., to The Dow Chemical Co. Removal of volatile organic materials from aqueous hydrochloric acid. 3,140,244, 7–7–64, Cl. 202—46.
Simes S.p.A.: *See*—
Ferrari, Giorgio. 3,133,076.
Simjian, Luther G., to Universal Match Corp. Receipt giving machine. 3,121,363, 2–18–64, Cl. 83—428.
Simjian, Luther G., to Universal Match Corp. Receipt giving machine. 3,121,603, 2–18–64, Cl. 346—22.
Simjian, Luther G. Service area with compartments. 3,130,-395, 4–21–64, Cl. 340—280.
Simjian, Luther G. Apparatus for providing solid reproductions. 3,135,828, 6–2–64, Cl. 178—6.6.
Simjian, Luther G., to Universal Match Corp. Depository machine with internal and remote recording. 3,148,932, 9–15–64, Cl. 346—22.
Simjian, Luther G., to Universal Match Corp. Depository machine combined with image recording means. 3,150,912, 9–29–64, Cl. 346—22.
Simjian, Luther G., to Universal Match Corp. Feeding mechanism for documents and the like. 3,153,483, 10–20–64, Cl. 209—73.
Simkins, Daniel, to Continental Can Co., Inc. Folded carton having separable units. 3,158,312, 11–24–64, Cl. 229—51.
Simmen, William: *See*—
Wadlinger, Joseph J., and Simmen. 3,154,225.
Simmerman, Harry G.: *See*—
Harrison, Stuart A., and Simmerman. 3,150,153.
Simmers, Charles D.: *See*—
Gould, Thomas R., Hahn, Coleman, and Simmers. 3,142,-869.
Gould, Thomas R., and Simmers. 3,133,319.
Simmler, Walter: *See*—
Merten, Rudolf, Bayer, Simmler, and Loew. 3,134,741.
Wrabetz, Karl, and Simmler. 3,120,549.
Wrabetz, Karl, and Simmler. 3,151,045.
Simmler, Walter, to Farbenfabriken Bayer Aktiengesellschaft. Lubricants of organopolysiloxanes. 3,122,507, 2–25–64, Cl. 252—49.6.
Simmon, Alfred, to Laboratory Furniture Co., Inc. Constant focus adjustable projector. 3,125,926, 3–24–64, Cl. 88—24.
Simmonds, Ernest S.: *See*—
Chittleburgh, William F. S., and Simmonds. 3,131,264.
Simmonds Precision Products, Inc.: *See*—
Bostwick, Norvan W. 3,142,291.
Cohn, Irving H. 3,161,054.
Fishman, Bernard, and Bostwick. 3,140,702.
Hall, Leon H. 3,125,084.
Hall, Leon H. 3,146,769.
Morris, John N. 3,124,116.
Thaler, Sherwood. 3,124,792.
Thaler, Sherwood. 3,158,849.
Urban, Charles. 3,132,515.
Simmons, Aldred J., to Plymouth Industrial Products, Inc. Sleeve for connecting multiple duct pipe. 3,150,887, 9–29–64, Cl. 285—231.
Simmons, Arthur L., D. W. Roese, and J. W. Dzimianski, to Westinghouse Electric Corp. Angular velocity measuring device. 3,143,889, 8–11–64, Cl. 73—505.
Simmons, Arthur W., and J. Washbourn, to Westinghouse Brake and Signal Co., Ltd. Load modified electric distribution system for brakes. 3,118,707, 1–21–64, Cl. 303—22.
Simmons, Arthur W., and J. Washbourn, to Westinghouse Brake and Signal Co., Ltd. Fluid pressure vehicle braking apparatus. 3,148,919, 9–15–64, Cl. 303—3.
Simmons, Brian D., to Associated Electrical Industries Limited. Counter employing plural circulating delay-line stores for stages with carry feedback to effect reset. 3,148,333, 9–8–64, Cl. 328—48.
Simmons, Brian D., to Associated Electrical Industries Ltd. Pulse counter employing plural circulating delay-line stores for stages and coincident gating to effect counting. 3,149,286, 9–15–64, Cl. 328—50.
Simmons, Charles C., to Ransburg Electro-Coating Corp. Electrostatic coating apparatus. 3,147,145, 9–1–64, Cl. 118—624.
Simmons, Charles D.: *See*—
Boehm, Benjamin F., and Simmons. 3,155,952.
Simmons, Charles S. Tool holder. 3,156,388, 11–10–64, Cl. 224—5.
Simmons Co.: *See*—
Blecker, Raymond H. 3,138,807.
Blecker, Raymond H. 3,142,848.
Wenz, Louis E. 3,130,422.
Simmons, Daniel F., and H. V. Wainright, to Celanese Corp. of America. Mixed aryl phosphate esters having unusual kinematic viscosities. 3,125,529, 3–17–64, Cl. 252—49.8.
Simmons, Donald E., 1/10 to B. R. Carney, 17.5/100 to F. R. Sisk, 1/10 to O. B. Hofstetter Jr., and 2.5 parts to H. Schoun. Rewinder and tape lock. 3,141,550, 7–21–64, Cl. 206—53.
Simmons, Edward C., to General Motors Corp. Refrigerating apparatus with defrost means. 3,120,111, 2–4–64, Cl. 62—276.
Simmons, Elmer C., to Laboratory for Electronics, Inc. Cathode ray tube display system having both specific symbol and generalized data control of the tube display. 3,130,397, 4–21–64, Cl. 340—324.
Simmons, George S., Jr., to Crompton & Knowles Corp. Protector means for shuttles. 3,126,921, 3–31–64, Cl. 139—155.
Simmons, Gustavus J.: *See*—
Schutzberger, Henry, and Simmons. 3,117,382.
Simmons, Haryl C. Band blade sharpener. 3,120,086, 2–4–64, Cl. 51—250.
Simmons, Henry T. Equipment for weaver's shuttle. 3,147,-777, 9–8–64, Cl. 139—198.
Simmons, Howard E., Jr.: *See*—
Drysdale, John J., and Simmons. 3,149,142.
Simmons, John W.: *See*—
Myers, Mark D., Noble, Simmons, and Bennett. 3,130,840.
Simmons, John W., to The Lamson & Sessions Co. Method of and machine for cutting and forming articles. 3,134,-421, 5–26–64, Cl. 153—2.
Simmons, Leslie S.: *See*—
Meeker, William D., Simmons, and Vanderslice. 3,161,-246.
Simmons, Michael C. A.: *See*—
Thompson, Jack E., and Simmons. 3,118,665.
Simmons, Milton E., to General Motors Corp. Coil spool construction. 3,129,348, 4–14–64, Cl. 310—194.
Simmons, William B., L. G. Shealy, R. C. Garrett, and W. P. Shannon, to St. Joe Paper Co. Pulping processes. 3,147,179, 9–1–64, Cl. 162—76.
Simms, John A., to E. I. du Pont de Nemours and Co. Polyvinyl fluoride laminates and process for making same. 3,133,854, 5–19–64, Cl. 161—189.
Simms Motor Units Ltd.: *See*—
Paterson, Thomas, and Miracki. 3,153,405.
Shimwell, Rodney H., and Robinson. 3,122,940.
Simms, Robert L., Jr., to Bell Telephone Laboratories, Inc. Checking circuit. 3,160,852, 12–8–64, Cl. 340—146.1.
Simms, Stanton G. Rotary side mounted cultivator. 3,138,-208, 6–23–64, Cl. 172—38.
Simms, Thomas S., to General Electric Co. Method and apparatus for curing gasket deformities. 3,140,328, 7–7–64, Cl. 264—230.
Simnad, Massoud T.: *See*—
Wallace, Walter P., and Simnad. 3,119,747.
Simnad, Massoud T., to General Dynamics Corp. Method of fabricating a fuel element. 3,154,845, 11–3–64, Cl. 29—470.
Simnad, Massoud T., J. C. Bokros, and H. P. Sleeper, Jr., to General Dynamics Corp. Method of hydriding. 3,135,697, 6–2–64, Cl. 252—301.1.
Simon, Albert, to Commissariat a l'Energie Atomique. Disassembly and decontamination apparatus especially for calutrons. 3,143,119, 8–4–64, Cl. 134—59.
Simon, Albert E., Jr., and H. E. Steinberg, to Esterbrook Pen Co. Marking instrument. 3,141,187, 7–21–64, Cl. 15—563.
Simon, Albert W.: *See*—
Morgan, Marcus S., Simon, and Wilt. 3,163,657.
Simon, Arthur S.: *See*—
Congleton, John S., and Simon. 3,149,994.

Simon-Carves Ltd.: *See*—
Beswick, Clifford K. and Whitehurst. 3,130,211.
Simon, Frank C. Reversible position indicating dial. 3,160,-137, 12–8–64, Cl. 116—115.
Simon, Fred W., to Dynamics Corp. of America. Method and apparatus for testing impedance elements utilizing a modified Wheatstone bridge. 3,150,315, 9–22–64, Cl. 324—62.
Simon, Fritz, to Roland Offsetmaschinefabrik Faber & Schleicher AG. Cleaning device for the blanket cylinders in offset printing machines. 3,120,805, 2–11–64, Cl. 101—425.
Simon, Georges: *See*—
Brichard, Edgar, Charue, and Simon. 3,127,680.
Simon, Harry. Key cutting machine and method. 3,118,346, 1–21–64, Cl. 90—13.05.
Simon, Henry, Ltd.: *See*—
Brown, Thomas J. A., and England. 3,129,897.
Brown, Thomas J. A., and Wolfenden. 3,157,365.
Simon, Jack, to L. M. Rabinowitz & Co., Inc. Method and machine for forming bent eye tape. 3,126,043, 3–24–64, Cl. 153—1.
Simon, Jack, to S. M. Rabinowitz & Co., Inc. Sewing machine for feeding, sewing and cutting sections of tape. 3,128,730, 4–14–64, Cl. 112—2.
Simon, James O., to Radio Corp. of America. Electron gun and fabrication thereof. 3,156,029, 11–10–64, Cl. 29—25.13.
Simon, Jean C.: *See*—
Biggi, Victor, and Simon. 3,160,813.
Simon, John. Winding stem for time-pieces. 3,146,580, 9–1–64, Cl. 58—90.
Simon, John F. Tapping system for liquid container or the like. 3,129,730, 4–21–64, Cl. 141—286.
Simon, John G.: *See*—
Davison, Richard H., Simon, and Esselstyn. 3,122,295.
Wilkins, Robert E., and Simon. 3,149,562.
Simon, John G., and J. G. Songas, to Minnesota Mining and Mfg. Co. Copper coating compositions. 3,141,780, 7–21–64, Cl. 106—1.
Simon, Juan C. Electric heater. 3,119,918, 1–28–64, Cl. 219—19.
Simon, Lester S. Heat-radiating curtain. 3,141,954, 7–21–64, Cl. 219—201.
Simon, Ludwig, to J. M. Voith Aktiengesellschaft. Continuously operable vertical digester for cooking pre-impregnated fibrous raw materials. 3,144,381, 8–11–64, Cl. 162—237.
Simon Mattress Mfg. Co.: *See*—
Harris, Irving F., and Wachter. 3,154,798.
Simon, Myron S.: *See*—
Blout, Elkan R., Green, Rogers, and Simon. 3,142,565.
Blout, Elkan R., Kasman, and Simon. 3,126,280.
Blout, Elkan R., and Simon. 3,131,219.
Blout, Elkan R., and Simon. 3,142,564.
Husek, Helen P., and Simon. 3,134,763.
Simon, Myron S., to Polaroid Corp. Novel photographic products, processes and compositions employing anthraquinone dye developers. 3,131,061, 4–28–64, Cl. 96—29.
Simon, Myron S., to Polaroid Corp. Azo dyes. 3,134,765, 5–26–64, Cl. 260—162.
Simon, Myron S., to Polaroid Corp. Aminophenyl hydroquinones. 3,134,811, 5–26–64, Cl. 260—571.
Simon, Myron S., and W. E. Solodar, to Polaroid Corp. Process for preparation of alkoxy substituted aromatic nitriles. 3,121,107, 2–11–64, Cl. 260—465.
Simon, Ralph: *See*—
Vagins, Milton, and Simon. 3,163,246.
Simon, Ralph, to Battelle Memorial Institute. Heat pumps. 3,154,927, 11–3–64, Cl. 62—3.
Simon, Ray C.: *See*—
Dewey, John L., and Simon. 3,126,595.
Simon, Reuben. Data retaining capsule. 3,151,740, 10–6–64, Cl. 206—37.
Simon, Robert W.: *See*—
Gans, Manfred, and Simon. 3,141,026.
Simon, Sidney. Sheet metal corner for mirror frames. 3,139,-161, 6–30–64, Cl. 189—36.
Simon, William F., and R. D. Torrey, to Sperry Rand Corp. Schmitt trigger having negative set and reset voltage levels determined by input clamping networks. 3,151,256, 9–29–64, Cl. 307—88.5.
Simonds, George D., Jr., to Badger Meter Mfg. Co. Control mechanism. 3,120,131, 2–4–64, Cl. 74—157.
Simonds, June M. Toy making wheel assemblies. 3,120,719, 2–11–64, Cl. 46—17.
Simonds, Milton R., to The Borden Co. Wax polish containing hexamethylene tetramine. 3,125,453, 3–17–64, Cl. 106—10.
Simone, Carl F.: *See*—
La Marche, Robert E., and Simone. 3,161,832.
Simonetti, Sam V.: *See*—
Bentley, Robert F., and Simonetti. 3,135,852.
Simonian, John V.: *See*—
Goldstein, Herman B., Silvestri, and Simonian. 3,116,-967.
Simonich, Herman C. Method of and apparatus for making sintered powdered metal parts. 3,145,102, 8–18–64, Cl. 75—214.
Simonin, Joseph E., to Pittsburgh Steel Co. Oil well drilling string. 3,152,458, 10–13–64, Cl. 64—1.
Simoniz Co.: *See*—
Beicos, Sotirios S. 3,149,000.
Simons, Alloys, to H. Krantz-Aachen. Electronic monitor device for centrifuges. 3,161,273, 12–15–64, Cl. 192—136.
Simons, Charles W.: *See*—
Nagle, John D., and Simons. 3,118,783.
Simons, Donald M., to E. I. du Pont de Nemours and Co. Preparation of tetrahydrofuran by the pyrolysis of butaneborates. 3,152,149, 10–6–64, Cl. 260—346.1.
Simons, Edward W., to Dualjet Corp. Method and apparatus for conditioning gas. 3,143,952, 8–11–64, Cl. 98—36.
Simons, Ernest D., and S. R. Tyler, to Dowty Fuel System Ltd. Liquid pumping apparatus. 3,118,491, 1–21–64, Cl. 158—36.3.
Simons, Hubert, to Compagnie de Saint-Gobain. Glass bending apparatus. 3,163,515, 12–29–64, Cl. 65—289.
Simons, John C., Jr.: *See*—
Hnilicka, Milo P., Jr., and Simons. 3,119,243.
Simons, Keneth A.: *See*—
Winston, Eric, and Simons. 3,140,454.
Simons, Maurice C., and S. Huberman, to Bennett Products Co. Binder strip for shoe uppers. 3,162,962, 12–29–64, Cl. 36—51.
Simons, William R., to S. Smith & Sons (Ltd.). Damping devices. 3,156,121, 11–10–64, Cl. 74—5.5.
Simonsen, Nelson C., to Curtiss-Wright Corp. Seal construction for rotary mechanisms. 3,139,233, 6–30–64, Cl. 230—145.
Simonson, Marvin R.: *See*—
Clark, Donald E., and Simonson. 3,116,898.
Simonson, Marvin R., to General Electric Co. Flow path design. 3,143,334, 8–4–64, Cl. 253—65.
Simpkin, Kenneth H.: *See*—
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Simpson, Allan R., Jr. Position rings for drumsticks. 3,137,-194, 6–16–64, Cl. 84—422.
Simpson, Altus L., and D. P. Hammon. Apparatus for selectively cementing pipe casing. 3,139,931, 7–7–64, Cl. 166—63.
Simpson, Anthony W., to The Plessey Co. Ltd. Ferrite core inductor variable by altering direction of steady magnetic field. 3,151,305, 9–29–64, Cl. 336—110.
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Simpson, Robert J. Can opener. 3,151,764, 10–6–64, Cl. 220—52.
Simpson, Robert L. Curtain valve. 3,137,315, 6–16–64, Cl. 137—625.28.
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Simpson, Warren C., T. F. Mika, and J. C. Illman, to Shell Oil Co. Solid propellant compositions and their preparation. 3,136,668, 6–9–64, Cl. 149—19.
Simpson, William, to Newey Brothers Ltd. Sewing machine with hook and eye attachment. 3,147,719, 9–8–64, Cl. 112—2.

Simpson, William G. Amusement apparatus for use by a person lying on his back. 3,135,513, 6–2–64, Cl. 273—110.
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Sims, Clark D.: *See*—
Mount, Keith B., and Sims. 3,120,912.
Sims, Claude C., to United States of America, Navy. Underwater sound transducer with sealed liquid coupling chamber. 3,118,125, 1–14–64, Cl. 340—12.
Sims, David L. and A. M. Race starting stalls. 3,163,150, 12–29–64, Cl. 119—15.5.
Sims, Everett G., and H. M. Duvall, Jr. Caustic recovery unit with specific gravity flow control means. 3,154,456, 10–27–64, Cl. 159—20.
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Sims, Homer J., to Rohm & Haas Co. Halogenated 2-keto-[2.2.2]-bycyclooctene-7-ketones, acids, and esters. 3,117,-989, 1–14–64, Cl. 260—468.
Sims, Homer J., to Rohm & Haas Co. Bicycloctanes and method of preparation. 3,143,563, 8–4–64, Cl. 260—468.
Sims, James G., to Monsanto Co. Textile filament having apparent variable denier. 3,138,516, 6–23–64, Cl. 161—179.
Sims, Leslie L., to Ethyl Corp. Half alkyl-half amides of maleic acid. 3,127,439, 3–31–64, Cl. 260—482.
Sims, Leslie L., to Ethyl Corp. Mixtures of esters of unsubstituted unsaturated 1,4 dicarboxylic acids having 4 carbons and C_{30} C_{60} saturated alcohols. 3,127,440, 3–31–64, Cl. 260—485.
Sims, Leslie L., to Ethyl Corp. Stable solvent compositions. 3,159,582, 12–1–64, Cl. 252—153.
Sims, Raymond B., to Davy and United Engineering Co. Ltd. Method of assembling bearing sleeves. 3,149,404, 9–22–64, Cl. 29—148.4.
Sims, Raymond B., and J. A. Harrison, to Davy and United Engineering Co. Ltd. Rolling mills. 3,134,279, 5–26–64, Cl. 80—54.
Sims, Rex J., T. W. Findley, and B. O. Powell, to Swift & Co. Fatty acid polyamide resins. 3,159,606, 12–1–64, Cl. 260—78.
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Sinclair, Frederick W., and M. H. P. A. Le Vie, to Gloucester Railway Carriage and Wagon Co. Ltd., and F. H. Lloyd and Co. Ltd. Draft and/or buffing gear for railway vehicles. 3,160,285, 12–8–64, Cl. 213—43.
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Sinclair, James R., to Minnesota Mining and Mfg. Co. Photographic stripping film. 3,156,565, 11–10–64, Cl. 96—83.
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Anderson, Arvin D. 3,150,103.
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Clough, Thomas J., and Young. 3,151,957.
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Grant, Bruce F. 3,149,670.
Gring, John L. 3,152,091.
Hoekstra, Gerald B. 3,140,923.
Holbert, Don R. 3,148,730.
Holbert, Don R., and Perry. 3,148,729.
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Loring, Lewis D., Jr. 3,117,088.
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Sinclair, Robert L., to The Gillette Co. Panel display rack. 3,139,985, 7–7–64, Cl. 211—59.
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Sindars, Fred E. Box carrying handle. 3,144,196, 8–11–64, Cl. 229—52.
Sindelar, William F., to Master Power Corp. Torque control means for power tools. 3,162,250, 12–22–64, Cl. 173—12.
Sinden, Alfred D., to Stephens-Adamson Mfg. Co. Self centering end pulley arrangement for belt conveyors. 3,126,084, 3–24–64, Cl. 198—16.
Sinden, Frank W. Puzzle with changeable indicators arranged in distinct but interrelated groups. 3,128,100, 4–7–64, Cl. 273—153.
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Sinex, Gene O., to American Tank and Steel Corp. Liquid reconcentrating apparatus. 3,132,987, 5–12–64, Cl. 159—31.
Sinex, John C., to International Business Machines Corp. Self-teaching device. 3,151,403, 10–6–64, Cl. 35—9.
Singelmann, Dietrich E., to Bell Aircraft Corp. Centrifugal pump. 3,120,813, 2–11–64, Cl. 103—115.
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Edwards, William J. 3,122,113.
Edwards, William J. 3,163,137.
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Goebel, Gregory, and Heine. 3,155,061.

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Hofgesang, William. 3,124,895.
Hughes, Ralph. 3,145,389.
Huston, Paul O., and Fleming. 3,142,083.
Huston, Paul O., and Fleming. 3,163,439.
Jasper, Charles P., and Perkins. 3,148,895.
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Laidig, Manfred R. 3,150,846.
Meloy, Arthur S., Jr. 3,145,673.
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Momberg, James W., and Graft. 3,145,675.
Momberg, James W., and Taylor. 3,141,429.
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Pearl, Curtis F. 3,138,853.
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Singer, Franz, to Compur-Werk G.m.b.H. & Co. Photographic shutter. 3,122,082, 2–25–64, Cl. 95—63.

Singer, Franz, and G. Fauth, to Compur-Werk Friedrich Deckel OhG. Photographic camera. 3,122,084, 2–25–64, Cl. 95—64.

Singer, Franz, B. Hohn, and H. Benninger, to Compur-Werk GmbH & Co. Photographic shutter. 3,136,234, 6–9–64, Cl. 95—63.

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Singer, Franz, and K. Hartl, to Compur-Werk G.m.b.H. & Co. Photographic shutter. 3,137,222, 6–16–64, Cl. 95—63.

Singer, Franz, and H. Benninger, to Compur-Werk, G.m.b.H. & Co. Photographic shutter. 3,162,109, 12–22,64, Cl. 95—11.5.

Singer, Isaac M., Jr., to E. I. du Pont de Nemours and Co. Tetraethylthiuram disulfide recovery process. 3,148,213, 9–8–64, Cl. 260—567.

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Singley, James A., and C. W. Riddle. Animal feeder. 3,152,575, 10–13–64, Cl. 119—56.

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Sinkler, Deas. Method of making a valve. 3,152,205, 10–6–64, Cl. 264—249.

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Sinner, Romain, to J.-P. Held. Extensible bracelet strap including a resilient coil and non-extensible band. 3,136,139, 6–9–64, Cl. 63—5.

Sinnott, Victor B. Anti-root sewer pipe liner. 3,160,425, 12–8–64, Cl. 285—55.

Sintes, Julio F., and A. A. Calderon. Flying machine and apparatus thereof. 3,149,800, 9–22–64, Cl. 244—7.

Sion, Frederick. Combination stretching and squeezing tool. 3,132,550, 5–12–64, Cl. 81—423.

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Sirrenberg, Wilhelm, W. Lorenz, H. Schlor, R. Colln, and G. Schrader, to Farbenfabriken Bayer Aktiengesellschaft. Phosphoric (phosphonic, phosphinic) or thiophosphoric (-phosphonic, -phosphinic) acid esters and processes for their production. 3,153,663, 10–20–64, Cl. 260—461.

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Sirtl, Erhard, to Siemens & Halske Aktiengesellschaft. Method for producing hyperpure semiconducting elements from their halogen compounds. 3,161,474, 12–15–64, Cl. 23—223.5.

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Sisko, John M. Core block construction. 3,139,371, 6–30–64, Cl. 161—37.

Sisler, Harry H., and N. L. Smith, to W. R. Grace & Co. Novel diquaternary aminophosphonium compounds. 3,131,204, 4–28–64, Cl. 260—448.2.

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Sissenwine, Norman, R. Leviton, and C. F. Campen, Jr., to United States of America, Air Force. Airborne jet stream detector. 3,149,491, 9–22–64, Cl. 73—178.

Sisson, Austin R., to The Bendix Corp. Magnetron stabilization system utilizing impedance mismatch. 3,139,592, 6–30–64, Cl. 331—5.

Sisson, Earl L., to Beckson Mfg. Corp. Plastic pump construction. 3,124,080, 3–10–64, Cl. 103—178.

Sisson, Earl L., to Clark Metal Products, Inc. Machine brake. 3,160,239, 12–8–64, Cl. 188—161.

Sisson, George M., to Sir Howard Grubb Parsons & Co. Ltd. Device for determining the position of a mark in a transparent or translucent plate or film. 3,154,626, 10–27–64, Cl. 88—14.

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Sites, Benjamin L., to Miehle-Goss-Dexter, Inc. Apparatus for making corrected color separations. 3,155,001, 11–3–64, Cl. 88—24.

Sites, Frank J. Instantaneous multiple plotter and visual readout device. 3,158,673, 11–24–64, Cl. 88—1.

Sitler, Richard W.: *See*—
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Sitrin, Gabriel M., to Carrick Products Co. Garment supporting structure. 3,143,215, 8–4–64, Cl. 211—105.1.

Sitt, Eddie. Jewelry display device. 3,138,259, 6–23–64, Cl. 211—13.

Sittel, Richard L.: *See*—
Lackey, Marion D., Evans, Sittel, and Wortman. 3,134,628.

Sittenfield, Marcus: *See*—
Shibe, William J., Jr., and Sittenfield. 3,133,072.

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Spongberg, Gordon, Tarbox, and Sittnick. 3,145,765.

Sitzler, Fred C., to Berg Electronics, Inc. Electrical connector. 3,128,143, 4–7–64, Cl. 339—223.

Sitzler, Fred C., to Berg Electronics, Inc. Method of making strip stake-on terminals and article. 3,151,443, 10–6–64, Cl. 59—77.

Sivacek, Emil E., to King-Seeley Corp. Thermos Co. Thermoresponsive apparatus. 3,153,139, 10–13–64, Cl. 219—450.

Sivaslian, Armen H., to North American Aviation, Inc. Antibacklash pinion. 3,138,035, 6–23–64, Cl. 74—440.

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Pfaff, Henry C., Jr., and Siver. 3,120,069.

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Sivyer, Robert B. Split ball valves having cam sealing increasing means. 3,124,333, 3–10–64, Cl. 251—161.

Sivyer, Robert B. Ball valves. 3,157,380, 11–17–64, Cl. 251—163.

Sivyer, Robert B. Vapor liquid contacting apparatus. 3,162,699, 12–22–64, Cl. 261—114.

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Sixty, Billy, Sr. Shoe fastening devices. 3,139,661, 7–7–64, Cl. 24—230.

Sizemore, Hiram, Jr. Adhesive tape. 3,143,208, 8–4–64, Cl. 206—56.

Sizer, Phillip S., V. R. Cherry, and L. M. Wilhoit, to Otis Engineering Corp. Apparatus for controlling flow within a well. 3,157,233, 11–17–64, Cl. 166—224.

Sjogren, Charles N., and R. B. Ritter, to Chemet Engineers, Inc. Liquid-solid extraction process. 3,148,069, 9–8–64, Cl. 99—71.

Sjoholm, Claes B., to Aktiebolaget Separator. Cheese press. 3,119,325, 1–28–64, Cl. 100—199.

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Sjostrom, Rainer V. A., to Gotaverken, Aktiebolaget. Ship's hatch covers. 3,127,925, 4–7–64, Cl. 160—193.

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Skakel, George, Jr., to Great Lakes Carbon Corp. Lapel timepiece. 3,140,579, 7–14–64, Cl. 58—88.

Skakel, James C. Submerged dredging device with air filled hood. 3,160,966, 12–15–64, Cl. 37—60.

Skála, Antonín, and K. Hrboticky, to Zavody v. l. Lenina. Continuously transferring and arranging rod-shaped articles. 3,158,251, 11–24–64, Cl. 198—32.

Skala, Stephen F., to Western Electric Co., Inc. Radiation method of measuring sheath thickness and eccentricity. 3,148,279, 9–8–64, Cl. 250—83.3.

Skalko, Francis C., and J. J. Owens, to Owens-Corning Fiberglas Corp. Method for forming and processing textile fibers and filamentary materials. 3,144,687, 8–18–64, Cl. 19—145.5.

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Skanska Cementgjuteriet AB: *See*—
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Skaptason, Joseph B., to Minnesota Mining and Mfg. Co. Defoliation of plants employing triphenylboraneamine complexes. 3,117,850, 1–14–64, Cl. 71—2.3.

Skaptason, Joseph B., to Minnesota Mining and Mfg. Co. Defoliation of plants employing alkanol amine esters of diphenylborinic acids. 3,117,854, 1–14–64, Cl. 71—2.6.

Skarnes, Reubin F. Portable shoe polishing fixture. 3,120,667, 2–11–64, Cl. 12—53.6.

Skärström, Åke R., to Arenco Aktiebolag. Machine for conveying rod-shaped objects. 3,135,406, 6–2–64, Cl. 214—339.

Skarstrom, Charles W.: *See*—
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Skarstrom, Charles W., to Esso Research and Engineering Co. Apparatus and process for heatless fractionation of gaseous constituents. 3,138,439, 6–23–64, Cl. 55—33.

Skarstrom, Charles W., to Esso Research and Engineering Co. Chemical reactions in a heatless fractionation apparatus. 3,155,741, 11–3–64, Cl. 260—683.15.

Skarstrom, Charles W., and C. L. Read, to Esso Research and Engineering Co. Combination process comprising distillation operation in conjunction with a heatless fractionator. 3,122,486, 2–25–64, Cl. 202—42.

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Skellett, Albert M., to Tung-Sol Electric Inc. Direct current cold cathode vacuum lamp. 3,149,262, 9–15–64, Cl. 315—168.

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Skerry, George A., to Lincoln Precision Machining Co. Winch hoist. 3,163,399, 12–29–64, Cl. 254—167.

Skerry, George A., to Lincoln Precision Machining Co. Hoist. 3,163,400, 12–29–64, Cl. 254—167.

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Skidgel, John R., to D. G. Griswold. Long-range rotary water sprinkler. 3,149,784, 9–22–64, Cl. 239—206.

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Skidmore, Richard H., to Skidmore-Hungerford Industries, Inc. Predetermined torque release wrench. Re. 25,547, 4–7–64, Cl. 81—52.4.

Skiera, Richard J., and P. K. Phillips, to Karma Corp. Blended-beverage dispensing machine. 3,159,190, 12–1–64, Cl. 141—369.

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Botefuhr, Harold R. 3,146,809.
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Shive, William, and Skinner. 3,118,753.

Skinner, Charles G., Jr.: *See*—
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Skinner, Charles H., and W. G. Robson, to Vickers-Armstrongs (Engineers) Ltd. Blanket tensioning means for the impression cylinders of rotary printing presses. 3,125,023, 3–17–64, Cl. 101—415.1.

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Skinner, Derwood U., to Houston Oil Field Material Co., Inc. Collar finder. 3,128,828, 4–14–64, Cl. 166—214.

Skinner, Donald A. Tree baling apparatus. 3,135,191, 6–2–64, Cl. 100—4.

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Skinner, Eugene S., to Beloit Iron Works. Method and apparatus for puddle-coater mounting indexing and change over. 3,152,008, 10–6–64, Cl. 117—111.
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Skinner, Ransom P., to Union Carbide Corp. Joining dissimilar metal members. 3,119,632, 1–28–64, Cl. 285—173.
Skinner, Stanley J., to Monsanto Chemicals Ltd. Process for providing improved surface gloss articles producing by extruding thermoplastic synthetic resins. 3,125,620, 3–17–64, Cl. 264—176.
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Sklar, Samuel. Knock-down door buck construction with adjustable wall clamping means. 3,156,331, 11–10–64, Cl. 189—46.
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Skoglund, Douglas M., P. S. Petersen, and R. J. Grimm, to Dyna-Mation, Inc. Lathe machine. 3,121,357, 2–18–64, Cl. 82—5.
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Skokut, Louis. Shower stall fixture. 3,142,513, 7–28–64, Cl. 297—349.
Skokut, Louis. Illuminating means for the keyhole of door locks. 3,162,374, 12–22–64, Cl. 240—2.13.
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Skolnick, Jack H., H. F. Denson, and B. A. Dahlberg, to A.R.F. Products, Inc. Remotely controlled receiver responsive only to fundamental modulation frequency. 3,133,252, 5–12–64, Cl. 325—393.
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Skopyk, Joseph. Propeller. 3,148,736, 9–15–64, Cl. 170—176.
Skotnicki, Thaddeus J., B. Y. Auger, and C. K. Heasley, to Minnesota Mining & Mfg. Co. Flexible resinous insulating sheet structure. 3,149,019, 9–15–64, Cl. 161—82.
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Skowron, Joseph J., Sr. Rotary engine. 3,125,854, 3–24–64, Cl. 60—39.38.
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Slack, Frederick F. Analog multiplier using solid-state electronic bridge. 3,117,242, 1–7–63, Cl. 307—88.5.
Slack, Ronald, S. L. Squires, and K. R. H. Wooldridge, to May & Baker Ltd. Isothiazol-5-yl lithium derivatives. 3,145,214, 8–18–64, Cl. 260—302.
Slade, Conamore C. Axial groove mattress. 3,146,469, 9–1–64, Cl. 5—91.
Sladek, Leonard T., to The Garrett Corp. Pneumatic speed sensing governor. 3,132,660, 5–12–64, Cl. 137—56.
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Slates, Harry L., and N. L. Wendler, to Merck & Co., Inc. Preparation of griseofulvin and analogues thereof. 3,147,282, 9–1–64, Cl. 260—346.2.
Slatin, Harvey L., to Timax Associates. Electrolytic process for the production of titanium metal. 3,137,641, 6–16–64, Cl. 204—64.
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Slattery, Vernon E., and J. W. Hall. Dispenser package for cylindrical objects. 3,155,275, 11–3–64, Cl. 221—289.
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Slavin, Michael, and C. A. B. Carvalho, to The Bendix Corp. Vehicular transistor radio receiver. 3,119,966, 1–28–64, Cl. 325—319.
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Slayter, Games, and E. Fletcher, to Owens-Corning Fiberglas Corp. Glass melting apparatus. 3,139,332, 6–30–64, Cl. 65—325.

Slayter, Games, and C. C. Mericle, to Owens-Corning Fiberglas Corp. Apparatus for processing fibers. 3,150,025, 9–22–64, Cl. 156—376.
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Slayter, John H., to John H. Slayter. Building construction. 3,159,882, 12–8–64, Cl. 20—4.
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Sleeper, Harold A., to Varian Associates. Folded cylinder gaseous discharge device having keep-alive electrode. 3,147,450, 9–1–64, Cl. 333—13.
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Sliepcevich, Cedomir M., to Conch International Methane Ltd. Ground reservoir for the storage of liquefied gases. 3,159,006, 12–1–64, Cl. 62—45.
Slight, David L. Apparatus for separating crops from other matter. 3,137,392, 6–16–64, Cl. 209—111.5.
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Sliney, Harold E., to United States of America, National Aeronautics and Space Administration. Bonded solid lubricant coating. 3,157,529, 11–17–64, Cl. 117—69.
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Sloan, Arthur W.: *See*—
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Rainer, William C., Redding, Hitov, Sloan, and Stewart. 3,144,399.
Sloan, Carol L., and W. A. Barber, to American Cyanamid Co. Process for preparation of s-triazine. 3,133,062, 5–12–64, Cl. 260—248.
Sloan, Carroll D., to Westinghouse Electric Corp. Permanent magnet eddy current device. 3,125,697, 3–17–64, Cl. 310—97.
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King, James F., Jr., and Sloan. 3,148,495.
Sloan, Edward C., to Oscar Mayer & Co., Inc. Apparatus for deaerating and feeding ground meat mixture from a vacuum chamber. 3,147,784, 9–8–64, Cl. 146—192.
Sloan, Edward C., A. H. Eberman, and H. A. Jensen, to Oscar Mayer & Co., Inc. Package forming apparatus and components thereof. 3,129,545, 4–21–64, Cl. 53—112.
Sloan, Edward C., A. H. Eberman, and R. L. Goller, to Oscar Mayer & Co., Inc. Package and method and apparatus for forming same. 3,137,580, 6–16–64, Cl. 99—171.
Sloan, Ralph A., and R. E. Addy. Hand implement. 3,157,422, 11–17–64, Cl. 294—19.
Sloan, Stephen A.: *See*—
Lange, William F., and Sloan. 3,117,619.
Sloan, Theodore H., M. Paruolo, and J. McMackin, to Brockway Glass Co., Inc. Inspection apparatus. 3,159,279, 12–1–64, Cl. 209—111.5.
Sloan, Thomas S.: *See*—
Barber, James C., Megar, and Sloan. 3,136,604.
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Billeter, Henry R. 3,117,589.
Billeter, Henry R. 3,117,761.
Billeter, Henry R. 3,130,911.
Billeter, Henry R., Campbell, and Tramblie. 3,145,064.
Sloane, Jack. Hair curler. 3,159,162, 12–1–64, Cl. 132—40.
Sloane, Peppy M. Printing device. 3,146,707, 9–1–64, Cl. 101—329.
Slocombe, Robert J., and J. D. Calfee, to Monsanto Co. Polymerization of vinyl hydroxy compounds with vinyl compounds in the presence of inhibiting amines. 3,159,610, 12–1–64, Cl. 260—87.5.
Sloier, Harold E. to Sun Wave Kogyo Kabushiki Kaishya. Tape recorder. 3,162,389, 12–22–64, Cl. 242—55.12.
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Slonneger, John L., and G. R. Chafee, Jr., to General Electric Co. Timer switching mechanism with multi-step one-piece cam. 3,142,730, 7–28–64, Cl. 200—38.
Sloop, Clifford E. Electric by-pass assembly. 3,146,049, 8–25–64, Cl. 339—12.
Sloop, Clifford E. Meter socket assemblies. 3,151,924, 10–6–64, Cl. 339—31.
Slosberg, David K., to Bonafide Mills, Inc. Method of making plastic terrazzo sheet material. 3,161,556, 12–15–64, Cl. 156—278.
Slot, Willem, to Stamicarbon N.V. Preparation of a granular compound fertilizer containing N, P and K. 3,149,957, 9–22–64, Cl. 71—39.
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Sloves, Jacob, to Sloves Mechanical Binding Co., Inc. Bank check wallet. 3,161,216, 12–15–64, Cl. 150—28.
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Schwarzenbek, Eugene F., and Slyngstad. 3,142,542.
Slyngstad, Charles E., and R. L. Nagy, to The M. W. Kellogg Co. Apparatus for catalytically cracking hydrocarbons. 3,142,543, 7–28–64, Cl. 23—288.
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Seyfried, Arthur W., and Smader. 3,121,178.
Smader, Charles L. Terminal construction for electric motors. 3,144,572, 8–11–64, Cl. 310—71.
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Luedemann, Clarence F., and Smale. 3,159,166.
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Small, Augustus B., and L. W. McLean, to Esso Research and Engineering Co. Method of preventing reactor fouling. 3,135,721, 6–2–64, Cl. 260—80.7.
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Small, Charles L., to Hendrickson Mfg. Co. Tandem axle suspension. 3,129,016, 4–14–64, Cl. 280—104.5.
Small, Donald E., to Amchem Products, Inc. Esters of γ-(2,4,5-trichlorophenoxy)-butyric acid. 3,144,480, 8–11–64, Cl. 260—473.
Small, Donald I., to Longview Fibre Co. Carton construction for rifles and the like. 3,156,351, 11–10–64, Cl. 206—46.
Small, Edward F. Spinning reel with adjustable flyer and one-way brake. 3,138,344, 6–23–64, Cl. 242—84.21.
Small, Hamish, to The Dow Chemical Co. Composition for use in solvent extraction process for the recovery of uranium and rare earth metals from aqueous solutions. 3,146,213, 8–25–64, Cl. 260—2.2.

Small, Hamish, to The Dow Chemical Co. Method of extractively separating mixed metallic species. 3,151,931, 10–6–64, Cl. 23—14.5.
Small, Leslie C., and T. H. Holmes, to United Aircraft Corp. Ray intensity control for solar mirror. 3,162,189, 12–22–64, Cl. 126—270.
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Small, Russel L., to United States Steel Corp. Blast furnace probe. 3,152,479. 10–13–64, Cl. 73—421.5.
Small, Samuel N., to A. G. Cohen, and P. Weiss. Collapsible knockdown cabana. 3,120,978, 2–11–64, Cl. 297—184.
Small, Samuel N., to J. Duberstein. Apparatus for feeding and cutting elongated workpieces. 3,125,918, 3–24–64, Cl. 83—150.
Small, Samuel N., to J. Duberstein. Apparatus for shearing elongated workpieces during feed of said workpieces. 3,149,521, 9–22–64, Cl. 83—320.
Small, Samuel N., to A. G. Cohen, and P. Weiss. Tiltable support for umbrellas. 3,149,638, 9–22–64, Cl. 135—46.
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Smalley, Edwin P., F. Dawson, and L. P. Entin, to Compo Shoe Machinery Corp. Sole roughing machinery. 3,119,133, 1–28–64, Cl. 12—17.
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Smart, Alfred W., deceased, by H. A. Smart, executrix, to Midland-Ross Corp. Apparatus for coating articles by dipping. 3,121,646, 2–18–64, Cl. 118—1.
Smart, Ernest F., to Westinghouse Electric Corp. Apparatus for assembly of electron devices. 3,159,904, 12–8–64, Cl. 29—25.19.
Smart, Helen A.: *See*—
Smart, Alfred W. 3,121,646.
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Smecko, Florian. Scraper and cutter. 3,157,946, 11–24–64, Cl. 30—169.
Smedley, James L. Remote starting arrangement for automobile engines. 3,163,770, 12–29–64, Cl. 290—38.
Smedley, Lee E. Metal-sod dam. 3,161,026, 12–15–64, Cl. 61—3.
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Smee, Peter G., to General Electric Co. Distortion free single stage amplifier. 3,135,927, 6–2–64, Cl. 330—111.
Smeets, Gerard G. F., to Houdaille Industries, Inc. Punch and die assembly having spaced tool positioning plates. 3,125,917, 3–24–64, Cl. 83—140.
Smeets, Gerard G. F., to Pierce-All Mfg. Ltd. Punch and guide assembly. 3,130,620, 4–28–64, Cl. 83—140.
Smejda, Richard K. Roller printing machines. 3,120,802, 2–11–64, Cl. 101—157.
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Smeltzer, Jack C., to Thompson Ramo Wooldridge Inc. Signal display systems. 3,128,454, 4–7–64, Cl. 340—174.1.
Smeltzer, Jack C., to The Bunker-Ramo Corp. Register monitor. 3,156,815, 11–10–64, Cl. 235—164.
Smeltzer, Jack C., and E. E. Rech, to Thompson Ramo Wooldridge Inc. Shift register with input memory converting logic level signals to positive or negative clock pulses. 3,119,031, 1–21–64, Cl. 307—88.5.
Smeulers, Wouter, to North American Philips Co., Inc. Circuit arrangement for synchronizing a local oscillator with the aid of a phase discriminator. 3,127,570, 3–31–64, Cl. 331—20.
Smeykal, Karl, W. Pritzkow, H. Knopel, S. Unger, and K. Moll, to VEB Leuna-Werke Walter Ulbricht. Process for the isomerization of xylene. 3,119,886, 1–28–64, Cl. 260—668.
Smialowski, Antoni J., to National Research Council. Haemostatic clamp. 3,126,005, 3–24–64, Cl. 128—325.
Smidt, Jurgen, W. Hafner, J. Sedlmeier, R. Jira, and R. Ruttinger, to Consortium fur Elektrochemische Industrie G.m.b.H. Process for the production of aldehydes and ketones. 3,131,223, 4–28–64, Cl. 260—597.
Smidt, Jurgen, R. Ruttinger, H. Kojer, and R. Sieber, to Consortium fur Elektrochemische Industrie G.m.b.H. Process for the production of 3-chlorobutanone-2 and butanone. 3,144,488, 8–11–64, Cl. 260—597.
Smidt, Jurgen, R. Sieber, W. Hafner, and R. Jira, to Consortium fur Elektrochemische Industrie G.m.b.H. Process for the production of carbonyl groups in organic compounds. 3,153,083, 10–13–64, Cl. 260—465.1.
Smidt, Jürgen, and A. Sabel, to Consortium Fur Elektrochemische Industrie G.m.b.H. Process for the preparation of high molecular weight polyvinyl alcohols. 3,162,626, 12–22–64, Cl. 260—91.3.
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Smiley, William D., and A. G. Wilder, to Jersey Production Research Co. Composite materials containing cemented carbides. 3,149,411, 9–22–64, Cl. 29—182.8.
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Smillie, Charles M., to C. M. Smillie and Co. Core mold vent plug. 3,160,928, 12–15–64, Cl. 22—13.
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Smirl, Richard L., to Borg-Warner Corp. Driven plate assembly. 3,138,012, 6–23–64, Cl. 64—27.
Smirl, Richard L., to Borg-Warner Corp. Anti-spin device for transmission mechanism. 3,139,764, 7–7–64, Cl. 74—339.
Smirl, Richard L., to Borg-Warner Corp. Leveling valve mechanism. 3,162,433, 12–22–64, Cl. 267—65.
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Smith, Albert C. Automotive vehicle with sleeping compartment. 3,160,435, 12–8–64, Cl. 296—23.
Smith, Albert L. Lawn edge trimmer. 3,144,084, 8–11–64, Cl. 172—15.
Smith, Alexander M., II, to Chatham Mfg. Co. Decorative needled fabric. 3,117,905, 1–14–64, Cl. 161—64.
Smith, Alexander M., II. Needle board for needle loom. 3,122,815, 3–3–64, Cl. 28—4.
Smith, Alexander M., II., to Chatham Mfg. Co. Needle loom. 3,132,406, 5–12–64, Cl. 28—4.
Smith, Alexander M., II, to The Fiberwoven Corp. Non-woven fabric and process of making same. 3,154,462, 10–27–64, Cl. 161—154.
Smith, Alfred, to Comet Appliances Ltd. Tool post for a machine tool. 3,143,906. 8–11–64, Cl. 82—37.

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Smith, Arthur E. W. 2-(2′hydroxy-4′-amino-phenyl)-1 :3 :4-oxadiazolone, the corresponding oxadiazolthione and derivatives thereof. 3,127,410, 3–31–64, Cl. 260—307.
Smith, Arthur J. Air gap fitting for drainage systems. 3,158,169, 11–24–64, Cl. 137—216.
Smith, Arthur W. Pump. 3,128,051, 4–7–64, Cl. 241—46.
Smith, Balus F. Body conforming diaper with built-in untensioned metallic springs. 3,116,733, 1–7–64, Cl. 128—284.
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Smith, Bonnie, Jr., now by change of name Bonne Smith, Jr. Flying solarthermic toy airship. 3,153,878, 10–27–64, Cl. 46—89.
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Smith, Cecil R. Hackamore bridle. 3,149,448, 9–22–64, Cl. 54—6.
Smith, Charles A. V., and A. F. Rekert. Panel systems. 3,127,960, 4–7–64, Cl. 189—1.
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Smith, Charles B., and V. O. Wilkerson, to International Business Machines Corp. High-speed printing apparatus. 3,142,840, 7–28–64, Cl. 346—74.
Smith, Charles C. Revolving worm bait. 3,148,474, 9–15–64, Cl. 43—42.24.
Smith, Charles D., and C. J. Anderson; said Anderson assor. to said Smith. Self cleaning spaceband for type casting machines. 3,127,983, 4–7–64, Cl. 199—67.
Smith, Charles E.: *See—*
Greening, Donald J., Peterson, and Smith. 3,163,812.
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Smith, Charles E., to Bock Machine Co. Corner rounding apparatus. 3,125,920, 3–24–64, Cl. 83—454.
Smith, Charles E., Jr. Electronic sequence timer. 3,162,772, 12–22–64, Cl. 307—88.5.
Smith, Charles F., to National Diary Products Corp. Treatment of egg albumen. 3,161,527, 12–15–64, Cl. 99—210.
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Smith, Charlie T., to May Hosiery Mills. Socks and apparatus and method for producing the same. 3,143,869, 8–11–64, Cl. 66—48.
Smith, Charlie T., to May Hosiery Mills. Seamless sun sock. 3,143,870, 8–11–64, Cl. 66—170.
Smith, Chester E., Jr., to Hercules Powder Co. Cross-linking polymeric materials. 3,141,867, 7–21–64, Cl. 260—85.1.
Smith, Chester F. Gasoline economizer. 3,157,171, 11–17–64, Cl. 123—119.
Smith, Clayton E., and A. G. Kendall, to Howe Richardson Scale Co. Electrical systems. 3,153,459, 10–20–64, Cl. 177—15.
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Smith, Cornelius P., to The Dow Chemical Co. Winding apparatus and method for forming tubular products. 3,134,216, 5–26–64, Cl. 57—1.
Smith, Dan E.: *See—*
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Smith, David F. Hemostatic surgical dressings. 3,122,479, 2–25–64, Cl. 167—84.
Smith, David F. Absorbable surgical powder. 3,122,482, 2–25–64, Cl. 167—92.
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Mitchell, Reid L., Hamilton, and Smith. 3,148,106.
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Beckwith, Sterling, and Smith. 3,162,781.
Smith, Donald E., to United States of America, Army. Detonation block fuze mount. 3,121,393, 2–18–64, Cl. 102—49.
Smith, Donald E., to Air Reduction Co., Inc. Separation of air into nitrogen, oxygen, argon, etc. 3,123,457, 3–3–64, Cl. 62—28.
Smith, Donald F., to United States of America, Army. Towing and lifting yoke. 3,148,908, 9–15–64, Cl. 294—67.
Smith, Donald J., to Reliable Electric Co. Anchor arrangement for the pole end of a guy wire. 3,152,668, 10–13–64, Cl. 189—31.1.
Smith, Donald L., to Air Reduction Co., Inc. Separation of air into nitrogen, oxygen and argon. 3,127,260, 3–31–64, Cl. 62—22.
Smith, Donald P., to John Mohr & Sons. Poultry defeathering fingers. 3,120,025, 2–4–64, Cl. 17—11.1.
Smith, Donald P. Poultry shackle. 3,145,416, 8–25–64, Cl. 17—44.1.
Smith, Donald P. Poultry shackle. 3,156,007, 11–10–64, Cl. 17—44.1.
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Smith, Duane E., and M. E. Seymour, to Veg-A-Peel Co., Inc. Vegetable peeling and cleaning apparatus. 3,158,187, 11–24–64, Cl. 146—50.
Smith, Duncan K.: *See—*
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Arkell, Alfred, Smith, and Throckmorton. 3,128,317.
Smith, E. Quimby, Jr. Missile guidance system. 3,145,949, 8–25–64, Cl. 244—14.
Smith, Earle K., to General Signal Corp. Support and spacer assembly for electron discharge tubes. 3,138,733, 6–23–64, Cl. 313—256.
Smith, Edgar J., to General Precision, Inc. Analog to digital converter and function generator. 3,122,733, 2–25–64, Cl. 340—347.
Smith, Edgar J., and C. J. Domaszewicz, to General Precision, Inc. Digital to analog converter and indicator. 3,158,855, 11–24–64, Cl. 340—347.
Smith, Edmund G., to Equipment Development Co., Inc. Sludge thickener. 3,117,927, 1–14–64, Cl. 210—326.
Smith, Edward B. Shopping bag with protective cover. 3,145,908, 8–25–64, Cl. 229—54.
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Smith, Lester L. Soffit ventilator. 3,125,942, 3–24–64, Cl. 98—37.

Smith, Lewis F., to Mechanical Technology Inc. Rotor with impeller vanes. 3,127,094, 3–31–64, Cl. 230—134.

Smith, Lewis F., to Mechanical Technology Inc. Regenerative devices. 3,135,215, 6–2–64, Cl. 103—87.

Smith, Lewis F., to General Electric Co. Shrouding for compressor stator vanes. 3,146,938, 9–1–64, Cl. 230—122.

Smith, Lewis K. Liquid heater. 3,144,854, 8–18–64, Cl. 122—136.

Smith, Lillian. Painting device. 3,130,435, 4–28–64, Cl. 15—230.

Smith, Lloyd B. Process of baling fibers. 3,133,563, 5–19–64, Cl. 141—12.

Smith, Lloyd L., to Ace of Clubs Golf Cleaner, Inc. Golf club head cleaner. 3,148,396, 9–15–64, Cl. 15—21.

Smith, Lloyd T., Jr.: *See*—
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Smith, Lofton H. Combination screen and grid bars. 3,136,-004, 6–9–64, Cl. 19—95.

Smith, Lon T.: *See*—
Canterino, Peter J., and Smith. 3,147,239.

Smith, Marion F.: *See*—
Naab, Gerard A., and Smith. 3,150,902.

Smith, Mark J., to Air Reduction Co., Inc. Method of encapsulating a graphite body containing metallic and ceramic particles. 3,158,547, 11–24–64, Cl. 176—69.

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Brock, Fred A., Burg, and Smith. 3,118,126.

Smith, Marlin R.: *See*—
Sundquist, Grant L., and Smith. 3,143,158.

Smith, Martha. Container. 3,143,153, 8–4–64, Cl. 150—11.

Smith, Matthew J.: *See*—
Murray, James G., Holub, and Smith. 3,125,634.
Murray, James G., Holub, and Smith. 3,125,635.

Smith, Max R., and M. D. Howell, to United States of America, Navy. Hydraulic force balance apparatus. 3,139,750, 7–7–64, Cl. 73—141.

Smith, Melvin A., Jr. Water heater. 3,123,054, 3–3–64, Cl. 122—135.

Smith, Melvin H., to Cutler-Hammer, Inc. Shock sensitive devices. 3,142,992, 8–4–64, Cl. 74—2.

Smith, Millard F. Method and means for determining the level of a liquid in a container. 3,120,757, 2–11–64, Cl. 73—295.

Smith, Millard F. Apparatus for confining floating material. 3,146,598, 9–1–64, Cl. 61—1.

Smith, Monroe F.: *See*—
Striplin, Charles D., and Smith. 3,130,649.

Smith, Morris, and R. C. Read, to The Gordon Co., Inc. Inspection reminder system having a periodically opened alarm nullified by switch actuation at all stations. 3,127,-599, 3–31–64, Cl. 340—286.

Smith-Morris Corp.: *See*—
Merrill, Gerald L. 3,126,623.

Smith, Nathan L.: *See*—
Sisler, Harry H., and Smith. 3,131,204.

Smith, Neil V., and G. S. Mahan, to International Basic Economy Corp. Intermittent pressure injector. 3,130,818, 4–28–64, Cl. 184—29.

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Seymour, Donald E., and Ketteridge. 3,137,746.

Smith, Norman H., to Rayonier, Inc. Preparation of hydroxymethylfurfural. 3,118,912, 1–21–64, Cl. 260—347.8.

Smith, Norman J., to J. E. Lonergan Co. Pressure relief means for gauges. 3,141,335, 7–21–64, Cl. 73—416.

Smith, Norman L., to United Carbon Co. Manufacture of carbon black. 3,117,016, 1–7–64, Cl. 106—307.

Smith, Norman L., and J. Mazzuchelli. Embossing type spacer, holder and stripper. 3,146,151, 8–25–64, Cl. 156—510.

Smith, O'Neal. Two color pick selector mechanism. 3,159,-185, 12–1–64, Cl. 139—126.

Smith, Orville E.: *See*—
Gibson, Christian D., and Smith. 3,163,253.

Smith, Otto J. M. Control system for use in control of loops with dead time. 3,141,982, 7–21–64, Cl. 307—149.

Smith, Patricia A.: *See*—
Battista, Orlando A., and Smith. 3,141,875.

Smith, Paul and C. R. Invalid chair. 3,147,039, 9–1–64, Cl. 297—90.

Smith, Paul E., Jr., to The New York Air Brake Co. Servo positional control apparatus. 3,149,271, 9–15–64, Cl. 318—28.

Smith, Paul R., and J. W. Mather. Optical altitude computer. 3,153,857, 10–27–64, Cl. 33—64.

Smith, Percy, and J. J. Rutkosky. Therapeutic appliance. 3,140,390, 7–7–64, Cl. 219—527.

Smith, Percy L.: *See*—
Lanham, William M., and Smith. 3,150,039.

Smith, Percy W.: *See*—
Hughson, J. D., Freeman, and Smith. 3,158,409.

Smith, Peter, and A. H. Jubb, to Imperial Chemical Industries Ltd. Preparation of isomeric-1:4 cyclohexanedimethanol. 3,133,973, 5–19–64, Cl. 260—617.

Smith, Peter, to Dynamics Corp. of America. Brachial transducer. 3,148,677, 9–15–64, Cl. 128—2.05.

Smith, Peter, to Dynamics Corp. of America. Disabling circuit for controlling the output in accordance with frequency and amplitude of the input. 3,151,299, 9–29–64, Cl. 328—54.

Smith, Peter, to Dynamics Corp. of America. Systolic diastolic blood pressure follower. 3,157,177, 11–17–64, Cl. 128—2.05.

Smith, Phillip H., to Bell Telephone Laboratories, Inc. Rotary joint using circumferentially uniform field to couple rotor to stator. 3,127,579, 3–31–64, Cl. 333—98.

Smith, Prescott A.: *See*—
Shaw, Milton C., Smith, and Cook. 3,157,093.

Smith, Preston G., to Airaterra. Hose and fitting construction. 3,117,809, 1–14–64, Cl. 285—242.

Smith, Ralph C., to Ingersoll-Rand Co. Fluid transmission couplings. 3,157,031, 11–17–64, Cl. 60—54.

Smith, Ralph E., to Manning, Maxwell & Moore, Inc. Hook with safety lock. 3,126,604, 3–31–64, Cl. 24—241.

Smith, Randal E., and J. S. Reiter, to Potash Co. of America. Reflotation concentration of sylvite. 3,137,650, 6–16–64, Cl. 209—12.

Smith, Rawlen T. Land levelers. 3,145,489, 8–25–64, Cl. 37—179.

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Smith, Raymond, and C. O. Tarr, to United States Steel Corp. Stainless steel resistant to nitric acid corrosion. 3,129,120, 4–14–64, Cl. 148—38.

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Linn, James A., and Smith. 3,156,147.

Smith, Raymond P., to Ford Motor Co. Vehicle door and windshield structure. 3,158,395 11–24–64, Cl. 296—44.

Smith, Reading B., to Sinclair Research, Inc. Process for the production of durene. 3,150,197, 9–22–64, Cl. 260—673.5.

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Smith, Richard A.: *See*—
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Smith, Richard A., and J. R. Infantino, to American Machine & Foundry Co. Resinous adhesive composition. 3,125,456, 3–17–64, Cl. 106—189.

Smith, Richard A., and F. Wojnar, to H. J. Heinz Co. Method of an apparatus for the continuous cooking and sterilization of liquids and suspensions. 3,139,812, 7–7–64, Cl. 99—251.

Smith, Richard F.: *See*—
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Smith, Richard G., and J. B. Berman, to Screen Products, Inc. Magnetic pressure indicator. 3,154,049, 10–27–64, Cl. 116—70.

Smith, Richard N., and J. A. Zang, to American Machine & Foundry Co. Plastic or dough mixing apparatus. 3,155,-056, 11–3–64, Cl. 107—36.

Smith, Robert, to General Motors Corp. Refrigerating apparatus. 3,162,023, 12–22–64, Cl. 62—455.
Smith, Robert B.: *See*—
Drake, Leonard C., Plank, Rosinski, and Smith. 3,137,658.
Smith, Robert D.: *See*—
Lund, Geoffrey V., and Smith. 3,146,575.
Smith, Robert D. Safety equipment for ships, barges and the like. 3,118,412, 1–21–64, Cl. 114—68.
Smith, Robert D. Streamlined housing for ship safety equipment. 3,118,413, 1–21–64, Cl. 114—68.
Smith, Robert D. Safety equipment for ships, barges and the like. 3,118,414, 1–21–64, Cl. 114—68.
Smith, Robert D. Air boat for ships, barges and other seagoing vessels. 3,122,119, 2–25–64, Cl. 114—68.
Smith, Robert D. Safety equipment for aircraft of all types. 3,125,314, 3–17–64, Cl. 244—107.
Smith, Robert D. Roller-massaging machine. 3,128,761, 4–14–64, Cl. 128—58.
Smith, Robert D. Divided safety equipment for aircraft. 3,129,909, 4–21–64, Cl. 244—107.
Smith, Robert D. Aircraft air scoop for inflatable air blanket safety equipment. 3,129,910, 4–21–64, Cl. 244—107.
Smith, Robert D. Safety parachute for aircraft. 3,129,912, 4–21–64, Cl. 244—139.
Smith, Robert D. Aircraft parachute. 3,129,913, 4–21–64, Cl. 244—139.
Smith, Robert D. Safety equipment housing for ships and airplanes. 3,129,683, 4–21–64, Cl. 114—68.
Smith, Robert D. Combination seam and air blankets for ships. 3,134,354, 5–26–64, Cl. 114—68.
Smith, Robert D. Water tight and air tight rooms for ships. 3,141,438, 7–21–64, Cl. 114—68.
Smith, Robert E.: *See*—
Gardner, Frederick H., and Smith. 3,132,767.
Smith, Robert E., to The Sandy Hill Iron & Brass Works. Liquid level control for a pressurized headbox of a papermaking machine. 3,135,652, 6–2–64, Cl. 162—259.
Smith, Robert E., to The Sandy Hill Iron & Brass Works. Felt conditioner. 3,135,653, 6–2–64, Cl. 162—277.
Smith, Robert F., to General Motors Corp. Illuminated ceiling. 3,130,922, 4–28–64, Cl. 240—9.
Smith, Robert G.: *See*—
Delamater, William B. 3,159,355.
Smith, Robert G. Lawn edging apparatus. 3,133,597, 5–19–64, Cl. 172—14.
Smith, Robert H.: *See*—
Shaffery, Raymond J., Smith, and Groening. 3,134,644.
Smith, Robert H., Jr.: *See*—
Staunton, John J. J., Malter, Stephens, and Smith. 3,134,649.
Smith, Robert I., and B. J. Woodruff. Tone changer for electric steel pedal guitars. 3,136,198, 6–9–64, Cl. 84—312.
Smith, Robert J.: *See*—
Arena, Joseph P., and Smith. 3,157,223.
Smith, Robert L.: *See*—
Forrester, Gilbert, Grant, and Smith. 3,151,482.
Smith, Robert L., to Ederer Corp. Ring barker with pneumatic pressure operated debarking arms. 3,137,329, 6–16–64, Cl. 144—208.
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Smith, Robert R., D. C. M. Mann, and E. Bevis, to B. X. Plastics Ltd. Manufacture of new graft copolymers. 3,121,672, 2–18–64, Cl. 204—154.
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Flanigan, William T., and Smith. 3,157,109.
Van Duyne, Robert J., and Smith. 3,146,370.
Smith, Robert W., to Badger Northland, Inc. Anti-foul drive wheel for silo unloader. 3,161,304, 12–15–64, Cl. 214—17.
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Smith, Roger O.: *See*—
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Smith, Rolf M., to General Motors Corp. Flow regulating valve for actuators. 3,160,172, 12–8–64, Cl. 137—504.
Smith, Rolin P., to R-N Corp. Ore reduction process. 3,126,277, 3–24–64, Cl. 75—36.
Smith, Rollin P., and O. Moklebust, to R-N Corp. Ore reduction and recovery method. 3,140,169, 7–7–64, Cl. 75—33.
Smith, Ronald A.: *See*—
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Smith, Ronald A., and J. Heslop, to The International Nickel Co., Inc. Nickel-chromium-cobalt alloy. 3,151,981, 10–6–64, Cl. 75—171.
Smith, Ronald E.: *See*—
Glassner, Harvey F., Smith, and Watson. 3,140,710.
Smith, Ronnie B.: *See*—
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Smith, Roy W., to Power Curbers, Inc. Feeding means for curb laying machine. 3,137,220, 6–16–64, Cl. 94—46.
Smith, Roy W., to Power Curbers, Inc. Apparatus for forming strips of pavement. 3,138,079, 6–23–64, Cl. 94—46.
Smith, Russell, 30% to J. M. King. Animal trap. 3,125,823, 3–24–64, Cl. 43—76.
Smith, Russell A.: *See*—
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Smith, Russell F., E. A. Johnson, and E. M. Mason, to ACF Industries, Inc. Mechanical pump. 3,150,601, 9–29–64, Cl. 103—150.
Smith Russell G., to Continental Mfg. Co. Plug valve having an auxiliary stem seal. 3,132,838, 5–12–64, Cl. 251—214.
Smith, Russell M., to General Electric Co. Wheel slip control by gradual reduction of generator excitation. 3,117,264, 1–7–64, Cl. 318—52.
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Smith, S., & Sons (England) Ltd.: *See*—
Atkinson, Bruce W. 3,139,567.
Du Feu, Alan N. 3,126,863.
Frankel, John S., and Hirst. 3,123,752.
Harris, Royston S. 3,143,696.
Hopkin, Peter R., and Halliday. 3,119,091.
James, Frederick D., and Rush. 3,159,738.
Masters, Leonard K. M. 3,141,607.
Meredith, Dennis L. 3,125,712.
Righton, David W., and Treadwell. 3,156,855.
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Stone, Colwyn F. 3,122,344.
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Smith, Samuel V., to Fluid Power Products, Inc. Reversible discharge flow variable displacement pump. 3,134,334, 5–26–64, Cl. 103—120.
Smith, Sara M. Protective carpet runner. 3,158,893, 12–1–64, Cl. 16—4.
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Laverone, Kenneth J., and Smith. 3,157,249.
Smith, Sidney B., to Rotax Ltd. Silicons control rectifier switching circuit having variable delay. 3,143,665, 8–4–64, Cl. 307—88.5.
Smith, Spencer B. Order quantity calculator. 3,125,290, 3–17–64, Cl. 235—89.
Smith, Stanley F., D. Craigie, and J. G. Kennan, to Rolls-Royce Ltd. Jet propulsion nozzle. 3,146,584, 9–1–64, Cl. 60—35.6.
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Smith, Thomas R., to The Maytag Co. Relay actuating circuit. 3,136,926, 6–9–64, Cl. 317—130.
Smith, Thomas R. Bow sight. 3,137,755, 6–16–64, Cl. 88—2.2.
Smith, Thomas R., to The Maytag Co. Lid and unbalance switch device. 3,149,212, 9–15–64, Cl. 200—61.7.
Smith, Thomas R., to The Maytag Co. Method of casting. 3,157,924. 11–24–64, Cl. 22—196.
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Smith, Tom F., 50% to R. E. Carney, Jr. Projection system. 3,144,806, 8–18–64, Cl. 88—16.6.
Smith, Tom Y. Metal crate. 3,160,305, 12–8–64, Cl. 220—4.
Smith, Traver J.: *See*—
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Daugherty, Ralph K., Smith, and Kozuch. 3,135,049.
Smith, Traver J., ½ to G. I. Magnuson, and ½ to G. I. Magnuson, R. Magnuson, and L. J. Fox, trustees. Amplifier for photoelectric bridge spectrophotometer. 3,127,560, 3–31–64, Cl. 324—123.
Smith, Traver J., ½ to G. I. Magnuson and ½ to G. I. Magnuson, R. Magnuson and L. J. Fox as trustees. Electrically controlled fluid dispenser. 3,145,741, 8–25–64, Cl. 141—104.
Smith, Valentine J., to Mechanical Technology Inc. Gas compressor. 3,133,692, 5–19–64, Cl. 230—162.
Smith, Vardaman K.: *See*—
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Smith, Verle D. Blending apparatus. 3,147,717, 9–8–64, Cl. 107—1.
Smith, Verne A. Collapsible picnic table. 3,137,522, 6–16–64, Cl. 297—159.
Smith, Vincent M., and R. J. Stirn, to United Resin Products Inc. Hot melt polyvinyl alcohol adhesive plasticized with propylene glycol. 3,143,518, 8–4–64, Cl. 260—33.4.
Smith, Wallace L. Battery salvage machine. 3,137,930, 6–23–64, Cl. 29—204.
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Smith, Walter G. Inflatable expansion plug. 3,125,163, 3–17–64, Cl. 166—187.
Smith, Wardell. Automatic temperature control. 3,134,542, 5–26–64, Cl. 237—10.
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Smith, Watt V., to United States of America, Navy. Sliding contact bearing for contra-rotating shafts. 3,144,279, 8–11–64, Cl. 308—35.
Smith, Watt V., and R. J. Flaherty, Jr. Immersible motor-pump unit. 3,135,213, 6–2–64, Cl. 103—87.
Smith, Watt V., and R. J. Flaherty, Jr. Axial flow unit. 3,143,972, 8–11–64, Cl. 103—87.
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Smith, Wesley A., to Tilt-A-Door Corp. Bi-fold door with self-contained motor. 3,155,147, 11–3–64, Cl. 160—189.
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Charron, Dwayne W. 3,136,084.
Charron, Dwayne W. 3,152,418.
Charron, Dwayne W. 3,158,064.
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Smith, Wilbert D., to Parayarn Elastic Co. System and apparatus for making elastic yarn. 3,124,924, 3–17–64, Cl. 57—18.
Smith, Wilbur C.: *See*—
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Smith, Willard A., and E. M. Klemer, to AMP Inc. Method for making high voltage high altitude bushing. 3,163,692, 12–29–64, Cl. 264—249.
Smith, Willard D. Newspaper balloting method. 3,136,567, 6–9–64, Cl. 282—25.
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Smith, William. Apparatus for spinal diagnostic analysis. 3,132,644. 5–12–64, Cl. 128—2.1.
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Ross, John M., and Smith. 3,117,973.
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Smith, William G., and A. J. Marcozzi, to Pittsburgh Plate Glass Co. Apparatus for depositing liquid dispersions. 3,120,467, 2–4–64, Cl. 162—337.
Smith, William H. Combined fishing rod holder and signal means. 3,156,997, 11–17–64, Cl. 43—17.
Smith, William J. Apparatus for making curved surfaces. 3,118,215, 1–21–64, Cl. 29—27.
Smith, William J. Substitute disposable hogshead. 3,120,-917, 2–11–64, Cl. 229—5.7.
Smith, William R., to McDonough Power Equipment, Inc. Cutter unit suspension arrangement for power mowers. 3,154,903, 11–3–64, Cl. 56—25.4.
Smith, Willis R., to General Signal Corp. Automatic start for normally inactive code communication system. 3,142,-051, 7–21–64, Cl. 340—213.
Smith, Woodrow W.: *See*—
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Smith, Woodrow W. Methods and apparatus for automobile damage correction. 3,149,660, 9–22–64, Cl. 153—32.
Smith, Zeke R., to American Machine & Fountry Co. Plug-in electromagnetic relay. 3,156,797, 11–10–64, Cl. 200—87.
Smithbauer, Donald J., to Burroughs Corp. Columnar rack printer with ribbon shift alternator. 3,147,703, 9–8–64, Cl. 101—336.
Smithbauer, Donald J, to Burroughs Corp Paper take-up mechanism for movable platen 3,161,277, 12–15–64, Cl. 197—133.
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Evans, John F. O., and Dunne. 3,143,714.
Fearnside, Kenneth, and Righton. 3,143,693.
Gorham, John A. D., and Legg. 3,143,319.
Smithson, Charles B., to National Union Electric Corp. Oil burner air control. 3,143,159, 8–4–64, Cl. 158—1.5.
Smithson, Charles B., to National Union Electric Corp. Hose connector or coupling for suction cleaner. 3,149,362, 9–22–64, Cl. 15—327.
Smithson, David J., to Compagnie des Machines Bull (Societé Anonyme). Monostable trigger arrangements. 3,143,667, 8–4–64, Cl. 307—88.5.
Smits, Robert G., to United States of America, Atomic Energy Commission. Multiple differential rotary mechanical drive. 3,119,537, 1–28–64, Cl. 226—111.
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Lucas, Joseph H. M., Van Dal, and Smits. 3,119,932.
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Smoot, Van. Solder dispensing package. 3,127,012, 3–31–64, Cl. 206—56.
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Smothers, William J., to The Ohio Brass Co. Preparation of cement composition. 3,147,126, 9–1–64, Cl. 106—97.
Smrek, Albert R., to Johns-Manville Corp. Barrel assembly jig. 3,157,214, 11–17–64, Cl. 147—3.
Smrekar, Larry F., to Balas Collet Mfg. Co. Adjustable feed finger and collet alignment device. 3,125,913, 3–24–64, Cl. 82—28.
Smucker, Robert E.: *See*—
Harrison, James M., and Smucker. 3,125,780.
Smucker, Robert E., and J. M. Harrison, to Crown Machine and Tool Co. Method for making plastic containers. 3,162,705, 12–22–64, Cl. 264—53.
Smuland, Robert J.: *See*—
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Smulski, Theodore J., to The Anderson Co. Clock hairspring regulator. 3,131,532, 5–5–64, Cl. 58—109.
Smulski, Theodore J., to The Anderson Co. Electric clock. 3,153,896, 10–27–64, Cl. 58—28.
Smura, Edwin J., to International Business Machines Corp. Magnetic core matrix. 3,138,786, 6–23–64, Cl. 340—174.
Smyklo, Alexander, and G. B. Schildroth, to United States of America, Air Force. Automatic hydraulic buffer. 3,148,-707, 9–15–64, Cl. 138—31.
Smyrni, Emanuel S., E. T. Carlin, and B. L. White, to Universal Mfg. Co. Child's self-propelled vehicle. 3,134,608, 5–26–64, Cl. 280—257.
Smyrni, Emanuel S., B. L. White, and L. T. Jones, to Universal Mfg. Co., Inc. Angular playground slide assembly. 3,141,670, 7–21–64, Cl. 272—56.5.
Smyser, James A. Flexible mold for tires. 3,135,996, 6–9–64, Cl. 18—18.
Smyser, James A. Adjustable tire mold. 3,135,997, 6–9–64, Cl. 18—18.
Smyth, Elbert D. Mop wing construction. 3,162,879, 12–29–64, Cl. 15—147.
Smyth Mfg. Co., The: *See*—
Thorp, James H. 3,117,684.
Thorp, James H. 3,155,220.
Smyth, Richard K., R. A. Gurnsey, and J. F. Frost III, to North American Aviation, Inc. Self-adapting servo parameter control means. 3,149,270, 9–15–64, Cl. 318—28.
Smyth, Roston & Pavitt: *See*—
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Smythe, Carl V., and K. S. Kraskin, to Rohm & Haas Co. Pesticidal compound. 3,143,408, 8–4–64, Cl. 71—2.5.
Snape, Alfred L., to The Gillette Co. Display and dispensing unit. 3,121,493, 2–18–64, Cl. 206—78.
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Snavely, William H., Jr.: *See*—
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Snavely, William H., Jr., and P. J. Manno, to Continental Oil Co. Resinous compositions and methods of preparing the same. 3,141,838, 7–21–64, Cl. 204—158.
Snayberger, Clarence L., Jr.: *See*—
Snayberger, Clarence L., Sr., and C. L. Snayberger, Jr. 3,131,838.
Snayberger, Clarence L., Sr., and C. L. Snayberger, Jr. Folding device for polo shirts. 3,131,838, 5–5–64, Cl. 223—37.
Sneath, Oswald B., to Multitone Electric Co. Selective call systems. 3,124,658, 3–10–64, Cl. 179—84.
Snedeker, Robert H., to Union Carbide Corp. Colored polycarbonate resin compositions. 3,152,098, 10–6–64, Cl. 260—37.
Snediker, Robert R., to Chicago Show Printing Co. Display holder. 3,162,965, 12–29–64, Cl. 40—10.

Sneed, Laymon G. Trailer house combination. 3,119,638, 1–28–64, Cl. 296—23.
Snell, Foster D., Inc.: *See*—
Cartwright, Leonard C. 3,118,477.
Snell, Fred M., and R. A. Spangler. Automobile guidance and speed control systems. 3,149,691, 9–22–64, Cl. 180—82.1.
Snell, Jacob K.: *See*—
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Snell, James H., Jr.: *See*—
Stetson, Earl W., and Snell. 3,151,273.
Snell, James H., Jr., to General Electric Co. Current limiting lightning arrester using porous material in the gap structure. 3,151,274, 9–29–64, Cl. 315—36.
Snell, John A., to General Signal Corp. Indication system and storage apparatus. 3,128,455, 4–7–64, Cl. 340—213.
Snell, Leonard S., to The De Havilland Engine Co. Ltd. Aircraft propulsion apparatus. 3,117,750, 1–14–64, Cl. 244—23.
Snell, Leonard S., to Bristol Siddeley Engineers Ltd. Jet propulsion power plants of the combustion turbine type. 3,131,536, 5–5–64, Cl. 60—35.6.
Snell, Raymond L., and C. E. Lowery, Jr., to Miles Laboratories, Inc. Calcium L (+) lactate and L (+) lactic acid production. 3,125,494, 3–17–64, Cl. 195—36.
Snell, Walter A. Diaphragm. 3,117,573, 1–14–64, Cl. 128—127.
Snelling, Charles D. Method and apparatus for making flexible conduits having an annular wall of foamed plastic. 3,118,800, 1–21–64, Cl. 156—79.
Snelling, Christopher: *See*—
Hope, William D., and Snelling. 3,145,655.
Snelling, Eric C.: *See*—
Wildy, Ronald G., and Snelling. 3,162,829.
Snelling, Henry F.: *See*—
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Morbidelli, Giuseppe, Arosio, and Notarbartolo. 3,145,198.
Notarbartolo, Luigi, and Ciceri. 3,117,948.
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Snider, Harold F., to Ranco Inc. Thermally responsive control apparatus. 3,163,043, 12–29–64, Cl. 73—363.5.
Snider, Orvill E.: *See*—
Winstrom, Leon O., and Snider. 3,141,036.
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Snobeck, John H. Animated toy. 3,157,963, 11–24–64, Cl. 46—107.
Snoberger, Philip H., to Ranco Inc. Electric motor protection means. 3,142,773, 7–28–64, Cl. 310—68.
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Snoeyenbos, Gordon E. and D. R. 3,153,925.
Snoeyenbos, Gordon E. and D. R., to Malleable Research and Development Foundation. Pattern-insert-receiving pocket and pattern-insert. 3,121,267, 2–18–64, Cl. 22—157.
Snoeyenbos, Gordon E. and D. R., to Malleable Research and Development Foundation. Friction and adhesion testing machine and method. 3,153,925, 10–27–64, Cl. 73—9.
Snook, Roger M., ½ to J. Lang, Jr. Quick release retainer nut. 3.147.662, 9–8–64, Cl. 85—33.
Snow, Billy D., and D. R. Minter, said Minter assor. to said Snow. Apparatus for dispensing vertically arranged cardlike forms. 3.154.216, 10–27–64, Cl. 221—231.
Snow, Hal J. Drive and mounting for cycloidal propeller. 3,134,443, 5–26–64, Cl. 170—150.
Snow, Robert A., to L. D. Schreiber Cheese Co., Inc. Method of packaging cheese curd. 3,143,430, 8–4–64, Cl. 99—178.
Snow, Robert B.: *See*—
Phillips, Fred C., Wormelle, and Snow. 3,133,363.
Phillips, Fred C., Wormelle, and Snow. 3,133,364.
Snow, William T., Jr., T. E. Ford, and J. W. Harrison, to W. R. Grace & Co. Conveyor shrink cover machine. 3,120,728, 2–11–64, Cl. 53—42.
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Snowdon, Arthur E., P. E. Johnson, E. W. Madsen, and G. A. Page, Jr., to The Superior Electric Co. Adjustable voltage autotransformer. 3,136,967, 6–9–64, Cl. 336—149.
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Snuggins, George K. Chain anchor. 3,125,355, 3–17–64, Cl. 280—457.
Snurr, Gordon R., to Glideline Corp. Protractor for drafting machine. 3,131,478, 5–5–64, Cl. 33—79.
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Snyder, Carl E., and J. A. Lovell, to The Goodyear Tire & Rubber Co. Polyhydroxyl terminated polyethers. 3,133,905, 5–19–64, Cl. 260—88.3.
Snyder, Charles A., Jr. Fluid stream sampler. 3,120,128, 2–4–64, Cl. 73—421.
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Snyder, Donald L., D. H. Pfefferle, W. C. Fink, M. Nordstrom, and H. S. Painter, to Sylvania Electric Products Inc. Method of and apparatus for applying ignition paste in the manufacture of photoflash lamps. 3,146,124, 8–25–64, Cl. 117—113.
Snyder, Earl E.: *See*—
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Snyder, George R., to Olin Mathieson Chemical Corp. Subaquatic gun. 3,118,242, 1–21–64, Cl. 42—1.
Snyder, Glenn M., to Landis Tool Co. Size control device adaptable to different diameters. 3,157,971, 11–24–64, Cl. 51—165.
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Snyder, Harvey, A. V. Alexeff, and H. R. Richards, to Industrial Ovens, Inc. Web guiding means. 3,156,396, 11–10–64, Cl. 226—17.
Snyder, James H., to Minneapolis-Honeywell Regulator Co. Infrared visual image converter with lens mirror coated with infrared absorbing material. 3,130,309, 4–21–64, Cl. 250—83.3.
Snyder, John C. Wall paper scarifier. 3,123,911, 3–10–64, Cl. 30—172.
Snyder, John R., to United States of America, Navy. Infrared optical system. 3,160,700, 12–8–64, Cl. 88—57.
Snyder, Lee S., to Stampliator, Inc. Stamp feeding and affixing device. 3,123,513, 3–3–64, Cl. 156—522.
Snyder, Millard E.: *See*—
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Snyder, Ralph W., to United States of America, Navy. Accelerometer simulator. 3,117,383, 1–14–64, Cl. 35—12.
Snyder, Richard L., to Hughes Aircraft Co. High density shift register. 3,137,845, 6–16–64, Cl. 340—174.
Snyder, Richard L., to Hughes Aircraft Co. High speed memory elements. 3,148,358, 9–8–64, Cl. 340—174.
Snyder, Richard L., to Hughes Aircraft Co. Random access high speed memory. 3,160,864, 12–8–64, Cl. 340—174.
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Sobel, Richard: *See*—
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Sobelson, Milton D., d.b.a. Crafts Guild, Maplewood, N.J. 780,323, pub. 9–1–64. Cl. 34.
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Sobey, Albert J., to General Motors Corp. Multistage rocket. 3,145,530, 8–25–64, Cl. 60—35.6.
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Societá Farmaceutici Italia: *See—*
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Camerino, Bruno, Caglioti, and Cainelli. 3,155,667.
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Chain, Ernst B., Bonino, and Tonolo. 3,162,640.
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Societe Alsacienne de Constructions Mecaniques: *See—*
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Debart, Hubert P. 3,119,967.
Ertaud, Andre. 3,131,940.
Ertaud, Andre. 3,131,942.
Gauvain, Roger. 3,125,783.
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Societe Anonyme D.B.A.: *See—*
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Societe Anonyme, Eternit: *See—*
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Societe Anonyme, Eternit Francaise: *See—*
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Societe Anonyme, Fabrique Nationale d'Armes de Guerre: *See—*
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Pickart, Auguste J.-B. G. 3,136,052.
Societe Anonyme Francaise du Ferodo: *See—*
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Societe Anonyme pour l'Exploitation des Procedes Chimiques et Physiques: *See—*
Bessiere, Pierre E. 3,120,189.
Bessiere, Pierre E. 3,122,099.
Bessiere, Pierre E. 3,122,100.
Societe Auxiliaire de l'Entreprise (Auxen): *See—*
Metailler, Roger. 3,129,832.
Societe Auxiliaire d'Industrie "Sadi": *See—*
Georges, Felix. 3,150,750.
Societe a Responsabilite Limite; Allard & Fils: *See—*
Allard, Adrien C. 3,118,591.
Societe a Responsabilite Limitee Helicotule: *See—*
Gros, Charles, and Vallier. 3,118,049.
Societe a Responsabilite Limitee: Recherches Etudes Production R.E.P.: *See—*
Boulet, Georges. 3,130,593.
Lucien, Rene, and Tetart. 3,125,034.
Societe a Responsabilite Limitee dite: Societe d'Etudes Contre la Corrosion (S.E.C.C.D.): *See—*
Heuze, Bernard M. L. 3,134,731.
Societe Belge de l'Azote et des Produits Chimiques du Marly: *See—*
Braconier, Frederic F. A., and Riga. 3,121,616.
Leroux, Pierre J., and Braconier. 3,145,236.
Societe Bertin & Cie: *See—*
Bertin, Jean H. 3,128,633.
Bertin, Jean H. 3,140,753.
Bertin, Jean H. 3,130,804.
Bertin, Jean H., and Dubois. 3,118,604.
Duthion, Louis, and Bertin. 3,151,701.
Societe Carbochimique Societe Anonyme: *See—*
Ziegler, Herbert, and Brulard. 3,153,642.
Societe Chimique de la Grande Paroisse: *See—*
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Societe Chimique de la Grande Paroisse, Azote et Produits: *See—*
Carton, Pierre, Jean, and Garon. 3,120,431.
Societe d'Electro-Chimie d'Electro-Metallurgie et des Acieries Electriques d'Ugine: *See—*
Berthoux, Jean, Mollard, and Papp. 3,132,921.
Chiaverina, Jean. 3,160,355.
Rolin, Maurice, and Gally. 3,141,835.
Societe d'Electronique et d'Automatisme: *See—*
Dreyfus, Bertrand A. 3,155,087.
Horgen, Helge. 3,136,118.
Raymond, Francois H. 3,117,266.
Raymond, Francois H. 3,135,447.
Richard, André M., and Brodin. 3,144,639.
Taraud, Bernard M. 3,138,503.
Societe des Verreries Industrielles Reunies du Loing: *See—*
Samour, Fernand. 3,159,377.
Societe d'Etude du Transport et de la Valorisation des Gaz Naturels du Sahara, S.E.G.A.N.S.: *See—*
Girot, Pierre. 3,118,523.
Lamy, Jacques E. J., and Venet. 3,133,421.
Societe d'Etude et de Construction d'Appareils de Levage et de Traction (Secalt S. A.): *See—*
Lebre, Charles J. P. 3,150,895.
Societe d' Etudes de Machines Speciales, Societe Anonyme: *See—*
Chambon, Louis J. 3,139,025.
Chambon, Louis J. 3,152,542.
Chambon, Louis J. 3,159,070.
Societe d'Etudes de Recherches et d'Applications Scientifiques et Medicales, E.R.A.S.M.E.: *See—*
Gradnik, Boris, Pedrazzoli, and Cipelletti. 3,149,114.
Societe d'Etudes & d'Exploitation Chimie & Mecanique E.C.E.M. Moulinex: *See—*
Mantelet, Jean. 3,116,771.
Societe d'Etudes et d'Applications Biochimiques: *See—*
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Roux, Louis. 3,118,909.
Societe d'Etudes et d'Applications Industrielles Commerciales et Immobilieres "Inter-Technique": *See—*
Dangauthier, Marcel. 3,150,543.
Dangauthier, Marcel. 3,156,481.
Societe d'Etudes et de Construction d'Appareils de Precision: *See—*
Hennequin, Maurice. 3,160,293.
Societe d'Etudes et de Participations Eau Gaz, Electricite, Energie, S.A.: *See—*
Horgen, Helge, and Huber. 3,152,583.
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Societe d'Etudes et de Recherches Techniques Sertec: *See—*
Seguenot, Gabriel J. 3,125,168.
Societe d'Etudes et Recherches et d'Exploitation d'Inventions Nouvelles Etablissement: *See—*
Trenteseaux, Albert J. 3,127,293.
Societe d'Etudes Scientifiques et Industrielles de l'Ile de France: *See—*
Thominet, Michel. 3,161,678.
Societe de Vente d'Aimants Allevard-Ugine: *See—*
Moreau, Louis. 3,146,381.
Societe d'Exploitation des Ateliers Rene Halftermeyer: *See—*
Jenot, Michel. 3,117,122.
Societe d'Exploitation des Materiels Hispano-Suiza: *See—*
Bruyere, Marcel. 3,121,546.
Societe d'Exploitation des Ressort Autoamortisseurs: *See—*
Jarret, Jean and Jacques. 3,152,798.
Societe d'Optique et de Mechanique de Haute Precision: *See—*
Baboz, Jean. 3,120,064.
Societe en nom Collectif dite: Science Union et Compagnie-Societe Francaise de Recherche Medicale: *See—*
Regnier, Gilbert, Graizon, and Le Douarec. 3,119,826.
Societe Francaise d'Agrafage Industriel par Abreviation Sofragraf: *See—*
Lefebvre, Roger. 3,160,890.
Fady, Jean A. 3,149,927.
Societe Francaise de Fermeture de Luxe: *See—*
Fady, Jean A. 3,153,831.
Societe Francaise d'Entretien et de Reparation de Materiel Aeronautique (S.F.E.R.M.A.): *See—*
Lecarme, Jacques A. M. 3,160,367.
Societe Generale de Constructions Electriques & Mecaniques (Alsthom): *See—*
Macherey, Charles L. 3,137,134.
Macherey, Charles L. 3,138,925.
Perolini, Marcel C. 3,124,669.
Societe Generale d'Exploitations Industrielles, Societe Anonyme dite: *See—*
Cognet, Firmin E. A., and Mohier. 3,138,659.
Societe Generale Isothermos: *See—*
Feuilly, Jules E. J. 3,130,820.
Feuilly, Jules E. J. 3,143,193.
Feuilly, Jules E. J. 3,160,242.
Societe Generals "Isothermos," Societe Anonyme: *See—*
De Moulliac, Guy V. 3,148,910.
Societe Genevoise d'Instruments de Physique: *See—*
Mottu, André. 3,124,015
Mottu, André H. 3,142,120.
Mottu, Andre H., and Viret. 3,157,092.
Pettavel, Jacques A., and Mottu. 3,161,962.
Youssoufian, Ara. 3,138,041.
Societe Hispano-Suiza-Lallemant Bois-Colombes: *See—*
Lallemant, Pierre M. J. 3,131,891.
Societe Indatom: *See—*
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Societe Industrielle de Brevets et d'Etudes (S.I.B.E.): *See—*
Van Saan, Willy. 3,161,787.
Societe Industrielle de Nouvelles Techniques Radioelectriques: *See—*
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Societe Industrielle de Sonceboz S. A.: *See—*
Vuilleumier, Jean-Paul, and Pfister. 3,154,951.
Vuilleumier, Jean-Paul, and Pfister. 3,157,984.
Societe Industrielle Generale de Mecanique Applique S.I.G.M.A.: *See—*
Gasquet, Rene, and Trichot. 3,156,255.
Gauthier, Robert, and Pigeroulet. 3,133,407.
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Societe Le Carbone-Lorraine: *See*—
Moutaud, Gilberte. 3,126,296.
Parisot, Jean, and Leduc. 3,160,519.
Perrin, Jean A. 3,163,796.
Societe les Produits Semi-Conducteurs, La.: *See*—
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Societe Lorraine de Laminage Continu Sollac: *See*—
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Societe Lorraine des Anciens Etablissements de Dietrich et Cie de Luneville, Societe Anonyme dite: *See*—
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Societe Luxembourgeoise de Brevets et de Participations: *See*—
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Societe Marocaine de Recherches d'Etudes et de Developpement, Somarede.: *See*—
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Societe Metallurgique d'Imphy: *See*—
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Society Usines Paulstra: *See*—
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Connally, Carl, Jr. 3,123,140.
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Soden, Ralph R., to Bell Telephone Laboratories, Inc. Microwave maser materials consisting of chromium doped sodium indium tungstate and iron doped sodium indium tungstate. 3,148,149, 9–8–64, Cl. 252—62.5.
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Soderberg, Paul B., J. D. Watts, and J. M. Harwell, Jr., to Gray Tool Co. Bifaced gate valve having tapered seat sealing surfaces. 3,152,786, 10–13–64, Cl. 251—167.

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Soderquist, Leslie E., to The McNeil Machine & Engineering Co. Press for shaping and curing pneumatic tires. 3,141,-191, 7–21–64, Cl. 18—2.
Sodomann, Heinrich, B. Hauschulz, and H. Schwermer, to Phenolchemie G.m.b.H. Process for the production of phenol of high degree of purity. 3,140,318, 7–7–64, Cl. 260—621.
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Sohn, Jesse S., and H. Robinson, to Air Reduction Co., Inc. Electric arc welding. 3,143,631, 8–4–64, Cl. 219—74.
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Solem, Thorolf. Ventilating fans. 3,116,679, 1–7–64, Cl. 98—116.
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Solley, Douglas A., Jr., to General Electric Co. Refrigerator including combination evaporator fan motor and defrost control. 3,159,980, 12–8–64, Cl. 62—155.
Sollman, Paul B., to G. D. Searle & Co. Optionally 17-alkylated 17-oxygenated 3,-5-cycloandrostane-6β,19-diols and intermediates thereto. 3,117,143, 1–7–64, Cl. 260—397.4.
Sollman, Paul B., to G. D. Searle & Co. 17α-(lower alkanoyl) oxy-3-hydroxy-6α-methyl-pregn-4-en-20-ones, esters thereof, and 6-dehydro derivatives corresponding. 3,126,399, 3–24–64, Cl. 260—397.4.
Solnick, Robert L., and G. N. Smith, to Olin Mathieson Chemical Corp. Method of constructing finned heat exchangers from bonded metal sheets. 3,136,037, 6–9–64, Cl. 29—157.3.
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Shapiro, Seymour L., Freedman, and Soloway. 3,150,-139.
Soloway, Saul, to Faberge, Inc. Encapsulation in natural products. 3,137,631, 6–16–64, Cl. 167—83.
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Solum, Conrad R., Jr.: *See*—
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Solum, James R., W. C. Hempel, and C. R. Solum, Jr., to B & W Inc. Tool for use in cementing well casing. 3,124,-198, 3–10–64, Cl. 166—172.
Solum, James R., and W. C. Hempel, to B & W Inc. Spiral oil well cementing tool. 3,124,199, 3–10–63, Cl. 166—173.
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Schwander, Jacques, and Dechenne. 3,132,125.
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Solzman, David M. Air moving devices. 3,149,553, 9–22–64, Cl. 98—43.
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Somatex Inc.: *See*—
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Somerville, Gareth G., A. C. Blasioli, and R. D. Wheeler, to General Electric Co. Mechanism for separating core laminations. 3,118,220, 1–21–64, Cl. 29—239.
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Somerville, Willard T., to International Flavors & Fragrances Inc. C_{11} alcohols and corresponding acetic acid esters. 3,140,311, 7–7–64, Cl. 260—488.
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Somigliana, Ugo. Compound material for road marking. 3,132,114, 5–5–64, Cl. 260—28.5.
Somlitz, Arthur A. Rip cord handle guard for chest types of parachutes. 3,124,325, 3–10–64, Cl. 244—149.
Somlyody, Arpad, to Burroughs Corp. Counter circuit with diode matrix feeding signals to transistor switches which control cold cathode indicator. 3,119,950, 1–28–64, Cl. 315—84.6.
Somlyody, Arpad, to Burroughs Corp. Counter circuit using diode coupled tube. 3,142,778, 7–28–64, Cl. 315—8.6.
Somlyody, Arpad, to Burroughs Corp. Electronic semiconductor counting circuit using diode matrix control means. 3,152,268, 10–6–64, Cl. 307—88.5.
Somlyody, Arpad, to Burroughs Corp. Beam-switching tube counter with transistor amplifier generating carry pulse, dependent on the configuration of the spade electrodes. 3,157,815, 11–17–64, Cl. 315—8.5.
Somlyody, Arpad, to Burroughs Corp. Beam switching tube counting circuit with particular transfer means between electrode groups. 3,157,816, 11–17–64, Cl. 315—8.5.
Sommer, Alois. Method for making foamed magnesia cement. 3,138,472, 6–23–64, Cl. 106—88.
Sommer, Alois. Foaming agent for making cellular concrete, and method of making same. 3,141,857, 7–21–64, Cl. 260—2.5.
Sommer, Benjamin L. Motor base. 3,158,347, 11–24–64, Cl. 248—23.
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Sommer, Richard A.: *See*—
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Sommer, Richard A., to The Ohio Crankshaft Co. Induction heating coil. 3,120,596, 2–4–64, Cl. 219—10.75.
Sommer, Richard A., to The Ohio Crankshaft Co. Power control for induction heating device. 3,153,717, 10–20–64, Cl. 219—10.75.
Sommer, Richard A., and G. C. Nebesar, to The Ohio Crankshaft Co. Welding inductor. 3,124,672, 3–10–64, Cl. 219—8.5.
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Sommer, Walter, to SKF Kugellagerfabriken Gesellschaft mit beschrankter Haftung. Bearing arrangement for a spinning machine. 3,120,983, 2–11–64, Cl. 308—187.1.
Sommerer, Wilhelm, and H. Venus, to Westofen G.m.b.H. Recuperators. 3,135,503, 6–2–64, Cl. 263—20.
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Sommeria, Marcel R., to Welding Research, Inc. Arc starting system. 3,154,719, 10–27–64, Cl. 315—163.
Sommeria, Marcel R., to Welding Research, Inc. Arc starting system. 3,154,721, 10–27–64, Cl. 315—172.
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Sommers, Harry H. Grinder attachment fixture. 3,127,717, 4–7–64, Cl. 51—218.
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Sonbert, Jack. Triethylene diamine fumarate and its uses in recovery of diazabicyclo-octane. 3,152,129, 10–6–64, Cl. 260—268.
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Sonneville, Roger P. Rail fixing means facilitating the laying of the rails in long bars. 3,158,323, 11–24–64, Cl. 238—283.
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Sorenson, James L. Sterile packaging. 3,157,277, 11–17–64, Cl. 206—63.2.
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Spalding, Cyril, to The De Havilland Aircraft Co. Ltd. Rotary fluid flowmeter sensing element. 3,153,341, 10–20–64, Cl. 73—231.
Spalding, Dudley B. Pressure exchanger heat pump apparatus. 3,140,928, 7–14–64, Cl. 34—62.
Spalding, Dudley B. Pressure exchangers. 3,159,002, 12–1–64, Cl. 60—39.45.
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Spalding, Richard L., to Radio Corp. of America. Method of testing and controlling the gettering of electron tubes during manufacture. 3,153,190, 10–13–64, Cl. 324—20.
Spalding, Robert G., to Symington Wayne Corp. Selective price-indicating device. 3,144,725, 8–18–64, Cl. 40—61.
Spaletta, Howard W., to Aerojet-General Corp. Gold-palladium-nickel alloys. 3,148,053, 9–8–64, Cl. 75—134.
Spallina, James P., to Bartmann & Bixer, Inc. Apparatus for cutting lengths of heat-fusible fabric and sealing the cut edges thereof. 3,157,553, 11–17–64, Cl. 156—515.

Spallone, John W., to Sanders Associates, Inc. High frequency solid state switch employing diodes with shiftable bias to control signal transmission. 3,146,357, 8–25–64, Cl. 307—88.5.
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Spandöck, Friedrich. Method and apparatus for determining acoustic effects. 3,139,151, 6–30–64, Cl. 181—30.
Spandorfer, Lester M., to United States of America, Army. Automatic electronic communication switching exchange. 3,141,067, 7–14–64, Cl. 179—18.
Spanel, Abraham N., to International Latex Corp. Tocopherol ascorbates. 3,151,127, 9–29–64, Cl. 260—343.7.
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Rath, Frank E. 3,157,367.
Spangenberg, Karl, to The Board of Trustees of the Leland Stanford Junior University. Radio frequency spectrum analyzer including dispersive traveling wave tube elements. 3,118,110, 1–14–64, Cl. 324—77.
Spangenberg, Robbert E., to Hunter Douglas International (Quebec) Ltd. Suspension device for a ceiling carrier. 3,127,147, 3–31–64, Cl. 268—327.
Spangenberg, Robbert E., to Hunter Douglas International Corp. Paneling structure for a ceiling, wall or similar surface. 3,139,162, 6–30–64, Cl. 189—88.
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Spanke, Theodore A., and A. L. Van Nest, to Western Electric Co., Inc. Article positioning apparatus. 3,135,123, 6–2–64, Cl. 74—53.
Spano, Leo A. Charcoal-containing porous fuel composition. 3,133,799, 5–19–64, Cl. 44—17.
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Sparks, Anthony A., and K. H. C. Bessant, to The Distillers Co. Ltd. Process of improving a halogen-containing polymer. 3,127,384, 3–31–64, Cl. 260—92.8.
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Sparks, Benjamin M., and C. J. Teggelaar, to Grand Rapids Hardware Co. Sash stop. 3,118,191, 1–21–64, Cl. 20—52.4.
Sparling, Arthur J. Reading pacer. 3,155,381, 11–3–64, Cl. 267—1.
Sparling, Clarence D. Nestable and tierable receptacles. 3,120,323, 2–4–64, Cl. 220—97.
Sparnaay, Marcus J., and W. H. P. Wensing, to North American Philips Co., Inc. Device for measuring ion concentrations with a copper doped germanium electrode. 3,159,783, 12–1–64, Cl. 324—30.
Sparr, Anders V. Milk pipeline washing means. 3,116,743, 1–7–64, Cl. 134—102.
Sparrow, Alan W., to F. Perkins Ltd. Spring starter motor. 3,127,883, 4–7–64, Cl. 123—179.
Sparrow, Hubert T., to Minneapolis-Honeywell Regulator Co. Fluid purification control system. 3,144,309, 8–11–64, Cl. 23—288.
Sparrow, Robert F., and P. H. Luft, to Westinghouse Air Brake Co Code responsive switching circuits. 3,119,096, 1–21–64, Cl. 340—167.
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Spaulding, Robert A., D. J. Agresta, and K. E. Ruff, to General Motors Corp. Method of predicting current distribution in an electroplating tank. 3,128,371, 4–7–64, Cl. 235—61.6.
Spaulding, Tedford H., to Emil J. Paidar Co. Air cooled barber chair. 3,131,967, 5–5–64, Cl. 297—180.
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Spear, Robert G. Controllably effectively collapsible and foldable child support platform for a seat area of a vehicle. 3,143,746, 8–11–64, Cl. 5—94.
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Specht, Glenn E., and W. A. Hott, to Powhatan Brass & Iron Works. Flush type nozzle. 3,150,829, 9–29–64, Cl. 239—107.
Specht, John K. Hand luggage. 3,128,854, 4–14–64, Cl. 190—41.
Specht, Otto A. G., to The Cincinnati Milling Machine Co. Swaging machine. 3,130,611, 4–28–64, Cl. 78—20.
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Spector, Gerald, and J. V. Fayer, to Radio Corp. of America. Magnetic core control circuit for actuating solenoid devices utilizing a single sense amplifier. 3,151,311, 9–29–64, Cl. 340—166.
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Spector, Marshall L., to Pullman Inc. Decontamination of volatile radioactive effluents. 3,153,566, 10–20–64, Cl. 23—1.
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Speidel, Karl, to Futura G.m.b.H. Composite formwork for casting structural bodies. 3,161,939, 12–22–64, Cl. 25—131.
Speidel, Louis, Jr., and E. J. Gow, Jr., to United States of America, Navy. Aggressive dual pin track. 3,131,002, 4–28–64, Cl. 305—11.
Speidel, Louis, Jr., and E. J. Gow, Jr., to United States of America, Army. Aggresive dual pin track. 3,140,127, 7–7–64, Cl. 305—53.
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Spencer, Aaron D. Convertible crib and youth bed construction. 3,135,973, 6–9–64, Cl. 5—100.
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Spencer, Frank R., to Formica Corp. Wax-containing melamine-formaldehyde foam and process of making same. 3,160,596, 12–8–64, Cl. 260—2.5.
Spencer, Harry E., to Eastman Kodak Co. Chemically deposited lead selenide photoconductive cells. 3,121,022, 2–11–64, Cl. 117—215.
Spencer, Harry E., and J. V. Morgan, to Eastman Kodak Co. Chemically deposited lead selenide photoconductive cells. 3,121,023, 2–11–64, Cl. 117—229.
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Sperber, Heinrich, G. Poehler, H. J. Pistor, and A. Wegerich, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of aniline. 3,136,818, 6–9–64, Cl. 260—580.

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Spero, George B., to The Upjohn Co. 6-chloro-1-dehydro steroid compounds. 3,130,211, 4–21–64, Cl. 260—397.45.

Spero, George B., to The Upjohn Co. 3-keto-6-methyl-4-pregnene-3,20-diones and a method for the production thereof. 3,141,876, 7–21–64, Cl. 260—239.55.

Spero, George B., to The Upjohn Co. 6*α*-methyl-17*α*,21-dihydroxy-4-pregnene-3,20-dione and 21-acetate. 3,147,290, 9–1–64, Cl. 260—397.47.

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Spivak, Alvin L., and J. A. Russell, to General Electric Co. Arc discharge controlled fluid amplifier. 3,122,062, 2–25–64, Cl. 91—3.
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Spivey, Warren R. Thread-chain cutter for sewing machines. 3,125,052, 3–17–64, Cl. 112—252.
Spivey, Warren R. Electric chain clippers. 3,125,658, 3–17–64, Cl. 219—19.
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Spoerri, Hans, and H. W. Liechti, to Ciba Ltd. Water-insoluble disazo dyestuffs. 3,137,687, 6–16–64, Cl. 260—160.
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Spofford, Warren A., to General Electric Co. Refrigeration system including charge checking. 3,163,015, 12–29–64, Cl. 62—129.
Spogen, Leo R., Jr., H. N. Shaver, and D. E. Baker, to Arizona Research Foundation, Inc. Selective amplitude sampling method and system for processing speech signals. 3,125,723, 3–17–64, Cl. 325—38.
Spohn, Karl, and G. Foll. Supply apparatus for machine tools. 3,131,587, 5–5–64, Cl. 82—2.7.
Spohn, Philip B., to Hewlett-Packard Co. Temperature compensated signal-controlled current source. 3,148,337, 9–8–64, Cl. 330—28.
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Sponaugle, Lloyd B., to National Rubber Machinery Co. Extruder with reverse flow flushed breaker plate assembly. 3,146,494, 9–1–64, Cl. 18—12.
Spongberg, Gordon, B. J. Harbox, and R. A. Sittnick, to Wallace Silversmith, Inc. Screen assembly. 3,145,765, 8–25–64, Cl. 160—19.
Spongberg, Richard M. Multiphase thermal arc jet. 3,140,421, 7–7–64, Cl. 315—111.
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Spooncer, William W., to Shell Oil Co. Process for polymerizing bicyclo-[2.2.1]2,5-heptadienes. 3,140,275, 7–7–64, Cl. 260—86.7.
Spooncer, William W., to Shell Oil Co. Mineral oil compositions. 3,160,593, 12–8–64, Cl. 252—49.8.
Spooner, Howard E., to Engelhard Industries, Inc. Apparatus for shear testing joints. 3,142,175, 7–28–64, Cl. 73—101.
Spooner, Richard C.: *See*—
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Spooner, Robert B., to Koppers Co., Inc. Apparatus for measuring the height and contour of material. 3,123,712, 3–3–64, Cl. 250—71.5.
Spooner, Robert J.: *See*—
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Sporck, Claus L., to The Lodge & Shipley Co. Metal working. 3,120,206, 2–4–64, Cl. 113—52.
Sporck, Claus L., to The Lodge & Shipley Co. Metal working. 3,120,207, 2–4–64, Cl. 113—52.
Sporck, Claus L., to The Lodge & Shipley Co. Metal working. 3,131,662, 5–5–64, Cl. 113—52.
Sporck, Claus L., to The Lodge & Shipley Co. Metal working. 3,137,259, 6–16–64, Cl. 113—52.
Sporck, Claus L., to The Lodge & Shipley Co. Sheet rolling method. 3,138,982, 6–30–64, Cl. 80—60.
Sporck, Claus L., to The Lodge & Shipley Co. Metal working. 3,144,845, 8–18–64, Cl. 113—52.
Sporck, Claus L., to Lodge & Shipley Co., Inc. Sheet metal working. 3,145,677, 8–25–64, Cl. 113—52.
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Sporer, Alfred H., and C. E. Allman, to International Business Machines Corp. Catalytic condensation of polymers of alpha-alkenyl ketones. 3,159,603, 12–1–64, Cl. 260—63.
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Sporny, Ferdinand J. Hand guide. 3,117,482, 1–14–64, Cl. 84—387.
Sporrer, Ludwig, to Siemens-Schuckertwerke Aktiengesellschaft. Dislocation removal by a last pass starting at a location displaced from the original seed into the grown crystal. 3,134,700, 5–26–64, Cl. 148—1.6.
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Puliafico, Frank V. 3,127,896.
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Cohen, Abraham J. 3,160,901.
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Von Frantzius, Peter. 3,146,614.
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Clement, Warren J. 3,131,337.
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Schils, Alvin L., and England. 3,150,301.
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Sprague, John L., and Alvarez-Tostado. 3,151,008.
Sprague, John L., and D'Amico. 3,149,398.
Sprague, John L., and Wied. 3,149,399.
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Sprague, Gordon V., Jr., to United Shoe Machinery Corp. Machines for forming outsole-heel units. 3,157,898, 11–24–64, Cl. 12—16.2.
Sprague, James M.: *See*—
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Sprague, James W., to The Standard Oil Co. Integrated petroleum refining process. 3,159,566, 12–1–64, Cl. 208—79.
Sprague, John L., and J. F. D'Amico, to Sprague Electric Co. Silicon dioxide solid capacitor. 3,149,398, 9–22–64, Cl. 29—25.42.
Sprague, John L., and O. J. Wied, to Sprague Electric Co. Silicon capacitor. 3,149,399, 9–22–64, Cl. 29—25.42.
Sprague, John L., and C. Alvarez-Tostado, to Sprague Electric Co. Method of forming a p-n junction. 3,151,008, 9–29–64, Cl. 148—179.
Sprague, Milton G. Circular saw. 3,133,533, 5–19–64, Cl. 125—15.
Sprague, Peter W.: *See*—
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Sprague, Robert H.: *See*—
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Sprague, Robert H., and J. A. Stewart, to Horizons Inc. Photographic process and composition including leuco triphenylmethane dyes. 3,121,632, 2–18–64, Cl. 96—48.
Sprague, Robert H. and P. W., to Horizons Inc. Process of making print-out images with cyanine dye bases and styryl dye bases. 3,121,633, 2–18–64, Cl. 96—48.
Sprague, Robert H., and J. A. Stewart, to Horizons Inc. Printout process and leuco bases of triphenyl methane dyes used therein. 3,140,949, 7–14–64, Cl. 96—48.
Sprague, Robert W., and R. C. Evans, to North American Aviation, Inc. Storable propellant compositions. 3,158,995, 12–1–64, Cl. 60—35.4.
Sprague, Stanley R., and R. G. Cunningham, to Shell Oil Co. Power transmission fluids. 3,153,632, 10–20–64, Cl. 252—75.
Sprague, Theodore S., to The Babcock & Wilcox Co. Horizontal vapor generating unit. 3,130,713, 4–28–64, Cl. 122—32.
Sprague, Theodore S., J. H. Ammon, and B. N. McDonald, to The Babcock & Wilcox Co. Vapor generating unit. 3,139,070, 6–30–64, Cl. 122—34.
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Sprauer, Jerome W., to E. I. du Pont de Nemours and Co. Cooling by recirculated product in diffusion flame process for production of acetylene and ethylene. 3,153,104, 10–13–64, Cl. 260—679.
Spraul, Joseph R., L. L. Peart, and E. A. Greer, to Rheem Mfg. Co. Method and apparatus for applying a material to an object. 3,132,967, 5–12–64, Cl. 118—52.
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Sprecher, Lester E. Aircraft with equi-spaced power plants. 3,120,359, 2–24–64, Cl. 244—12.
Spreeuwers, Harm R., to Onderzoekingsinstituut Research, N.V. Screw extruder for mixing plastic material with a pigment. 3,148,412, 9–15–64, Cl. 18—12.
Spriggle, Dorris W. Load hanging bracket. 3,136,519, 6–9–64, Cl. 248—231.
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Sprigings, Donald G., to H. K. Porter Co., Inc. Current collector arm. 3,124,226, 3–10–64, Cl. 191—59.1.
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Springate, Maurice S., to Aviation Developments Ltd. Apparatus for transferring workpieces in machine tool. 3,124,255, 3–10–64, Cl. 214—1.
Springer, Amos D., to Alad Oil Tool, Inc. Liner hanger and setting tool. 3,158,201, 11–24–64, Cl. 166—120.
Springer, Charles E. Toilet seat cover clamp. 3,116,527, 1–7–64, Cl. 24—81.
Springer, Clarence A. Toilet unit. 3,149,346, 9–22–64, Cl. 4—135.
Springer, Earl W., to United States of America, Navy. Sea depth determination air survey means. 3,119,090, 1–21–64, Cl. 340—2.

Springer, George, and H. A. Cake pan stand. 3,126,948, 3–31–64, Cl. 165—67.
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Springer, Hans, to General Electric Co. Toothbrush storage case and battery charger. 3,143,697, 8–4–64, Cl. 320—2.
Springer, Hans, and E. A. Phaneuf, to General Electric Co. Slidable switch mechanism for an electric toothbrush. 3,156,804, 11–10–64, Cl. 200—157.
Springer, Henrietta A.: *See*—
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Springer, Raymond L., to The Auto Sun Products Co. Anchor assembly for seat belt. 3,127,652, 4–7–64, Cl. 24—165.
Springer, Raymond W. Ball and socket joint. 3,125,364, 3–17–64, Cl. 287—90.
Springer, William E., to Robbins & Myers, Inc. Filter bag and suspension for dust collecting apparatus. 3,131,044, 4–28–64, Cl. 55—378.
Springer, William E., to Robbins & Myers, Inc. Clamping latch. 3,158,908, 12–1–64, Cl. 20—16.
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Sproule, Robert S., to Dominion Engineering Works Ltd. Kaplan turbine (single-acting pipeless runner blade servo). 3,146,990, 9–1–64, Cl. 253—31.
Sproule, Robert S., L. M. Boyd, and F. Kanger, to Dominion Engineering Works Ltd. Double acting pipeless runner blade servo with air bias for fast opening. 3,146,991, 9–1–64, Cl. 253—31.
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Fisher, Chester D. 3,138,167.
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Sprung, Murray M., to General Electric Co. Polymeric reaction product of an organosilanetetrol and phenylboronic acid. 3,161,613, 12–15–64, Cl. 260—46.5.
Spruth, Wilhelm, to International Business Machines Corp. Gate circuits utilizing light sources and photoconductors. 3,145,301, 8–18–64, Cl. 250—209.
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Spurgeon, Richard C., to said Spurgeon, and G. E. Robertson. Method of stocking production and stocking. 3,120,051, 2–4–64, Cl. 28—76.
Spurgeon, Richard C. Pruning shears. 3,146,527, 9–1–64, Cl. 30—254.
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Butler, De Forest D. 3,137,807.
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Gemmell, David. 3,160,731.
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Squier, Lelan R., and R. H. Steidl, to The Boeing Co. Axonometric computer slide rule. 3,135,465, 6–2–64, Cl. 235—70.
Squillaro, Jerome C., and H. D. Tolj, to United States of America, Navy. Transistor linear peak detector for signals having wide dynamic range. 3,145,345, 8–18–64, Cl. 329—101.
Squire, Robert K., to Superior Scaffold Co. Ground handling system for aircraft. 3,162,404, 12–22–64, Cl. 244—114.
Squires, Sam G. Weather-proof window guide. 3,135,027, 6–2–64, Cl. 20—52.
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Staaf, Gustav Å., and S. A. Molin, to Alstermo Bruks Aktiebolag. Former roller with cutting knife. 3,130,886, 4–28–64, Cl. 225—103.
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Staar, Marcel J. H. Gramophone record distributing devices for gramophone record changers. 3,122,371, 2–25–64, Cl. 274—10.
Staar, Marcel J. H., to Usines Gustave Staar, S.A. Dictating machine drive mechanism. 3,124,360, 3–10–64, Cl. 274—4.
Stabe, Heinrich, and B. Hamburger, to Hartmann & Braun Aktiengesellschaft. Viscometers. 3,122,914, 3–3–64, Cl. 73—59.
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Campbell, Dudley H. 3,158,698.
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Stacy, Robert G., to The Budd Co. Disk brakes for railway cars. 3,143,191, 8–4–64, Cl. 188—59.
Stacy, Stanley L., D. I. Flower, and F. A. Calabro, to Ethicon, Inc. Sterile package. 3,136,418, 6–9–64, Cl. 206—63.3.

Stacy, Thomas F., to The French Oil Mill Machinery Co. Pilot light system. 3,147,466, 9–1–64, Cl. 340—252.
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Weber, Kurt, and Staeuble. 3,157,652.
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Staeuble, Max, to Ciba Corp. Vat dyestuffs containing halopyrimidine substituents. 3,126,382, 3–24–64, Cl. 260—256.4.
Staeuble, Max, to Ciba Ltd. Reaction product of monoaminodibenzanthrone and two moles of a hydroxyalkylamine. 3,127,422, 3–31–64, Cl. 260—354.
Staeuble, Max, K. Weber, and P. Hugelshofer, to Ciba Ltd. Sulfatoalkylamino derivatives of triazine and pyrimidine vat dyestuff. 3,157,653, 11–17–64, Cl. 260—249.
Staeuble, Max, and K. Weber, to Ciba Ltd. Process for dyeing high-molecular organic products with pigment dyestuffs. 3,163,551, 12–29–64, Cl. 106—193.
Staffel, Wilhelm, to C. A. Weidmuller K.G. Connector for electrical conductors. 3,159,730, 12–1–64, Cl. 200—133.
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Stafford, John A., and R. L. St. John, to Schlumberger Well Surveying Corp. Galvanometric recording systems. 3,142,528, 7–28–64, Cl. 346—109.
Stafford, John N., to Stafford Patents and Holdings Ltd. Linking and nesting units. 3,141,699, 7–21–64, Cl. 297—239.
Stafford, John N., to Stafford Patents and Holdings Ltd. Structural elements for beds. 3,160,895, 12–15–64, Cl. 5—286.
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Stahl, Helmut, and G. E. Wiest, deceased (by G. Wiest, heir and legal representative), to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Purification of caprolactam. 3,150,067, 9–22–64, Cl. 204—158.
Ståhl, Nils E. J., and O. U. Larsson, to Almex, AB. Arrangement in receipt-issuing machines for the marking of tickets. 3,116,685, 1–7–64, Cl. 101—66.
Stahl, William F. Method of forming plastic containers. Re. 25,624, 7–28–64, Cl. 264—230.
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Stähle, Martin. Pump impeller. 3,156,190, 11–10–64, Cl. 103—88.
Stahlecker, Fritz. Spindle bearing. 3,127,223, 3–31–64, Cl. 308—152.
Stahlecker, Fritz, and H. Belt drive for spindles of spinning or twisting machines. 3,120,732, 2–11–64, Cl. 57—105.
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Stahlecker, Hans. Movable bearing for spinning or twisting spindles. 3,149,889, 9–22–64, Cl. 308—156.
Stahlecker, Wilhelm. Two-belt drawing mechanism for spinning machines. 3,120,681, 2–11–64, Cl. 19—252.
Stahlecker, Wilhelm, and S. Kemmler. Top roller mounting in a spinning machine. 3,125,383, 3–17–64, Cl. 308—174.
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Stahly, Eldon E., ¾ to O. W. Burke, Jr., and ¼ to Eastman Kodak Co. Antiozonants and antiozonant compositions for elastomers. 3,157,615, 11–17–64, Cl. 260—45.9.
Stahly, Eldon E., ¾ to O. W. Burke, Jr., and ¼ to Eastman Kodak Co. P-phenylenediamine stabilizers for elastomers and compositions containing the same. 3,163,616, 12–29–64, Cl. 260—28.5.
Stahly, Frederick A., and K. C. Herr, to Eastman Kodak Co. Superior binders for photoconductive layers containing zinc oxide. 3,132,941, 5–12–64, Cl. 96—1.
Stahmer, Bernhardt. Jet-balloon aircraft. 3,120,932, 2–11–64, Cl. 244—24.
Stahmer, Bernhardt. Helicopter mounted parachute. 3,138,348, 6–23–64, Cl. 244—17.15.
Stahmer, Bernhardt. Boat-forming machine and jig. 3,153,796, 10–27–64, Cl. 9—6.5.
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Stainbrook, Theodore S. Mooring line retaining device. 3,151,595, 10–6–64, Cl. 114—230.
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Staller, Karel J., to International Telephone and Telegraph Corp. Soldering iron. 3,136,878, 6–9–64, Cl. 219—239.
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Henry, James W. 3,125,280.
Tang, Yung C., and Sheng. 3,131,083.
Vierling, John A. 3,142,123.
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Standard Parts and Equipment Corp.: *See*—
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Standard Plastics, Inc.: *See*—
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Standard Pneumatic Motor Co.: *See*—
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Standard Products Co., The: *See*—
Reid, James S. 3,123,839.
Reid, James S. 3,150,423.
Reid, James S. 3,157,170.
Ungerer, Aaron J. 3,137,337.

Standard Railway Equipment Mfg. Co.: *See*—
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Standard Screw Co.: *See*—
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Standard Steel Corp.: *See*—
Preeman, Marvin B. 3,142,390.

Standard Steel Works, Inc.: *See*—
Compton, Arthur M., and Priest. 3,147,925.

Standard Systems Corp.: *See*—
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Standley, Floyd F.: *See*—
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Standley, Wendell E.: *See*—
Nigrelli, Biagio J., Standley, and Wittmann. 3,144,119.
Nigrelli, Biagio J., Standley, and Wittmann. 3,150,760.
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Nigrelli, Biagio J., Standley, Witmann, and Schaller. 3,130,602.

Standlick, Ronald E.: *See*—
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Trumbull, Donald E., and Standlick. 3,160,331.

Stanek, Eldon E. Adjustable fishing float. 3,161,983, 12–22–64, Cl. 43—44.90.

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Stanetzki, Lothar, to Markes & Co., Kommanditgesellschaft. Toy robot and actuating means therefor. 3,128,575, 4–14–64, Cl. 46—120.

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Stanford Research Institute: *See*—
Crane, Hewitt D. 3,145,367.
Frohbach, Hugh F. 3,131,256.
Geppert, Donovan V. 3,150,282.
Sedlacek, Rudolf. 3,122,916.

Stanford, William: *See*—
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Stang, Albert F., to Callery Chemical Co. Isomerization of ethyl pentaborane (9). 3,135,801, 6–2–64, Cl. 260—583.

Stange, Charles W., and H. R. Smith. Shopping bag. 3,142,435, 7–28–64, Cl. 229—54.

Stange Co.: *See*—
Rasmussen, Charles B. 3,151,988.

Stange, Hugo, to Olin Mathieson Chemical Corp. Preparation of alkylated decarborane. 3,158,653, 11–24–64, Cl. 260—606.5.

Stange, Hugo, to Olin Mathieson Chemical Corp. Gas turbine fuels. 3,163,507, 12–29–64, Cl. 44—74.

Stange, Hugo, E. A. Weilmuenster, and J. A. Zaslowsky, to Olin Mathieson Chemical Corp. Preparation of liquid reaction products of diborane and acetylene. 3,159,681, 12–1–64, Cl. 260—606.5.

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Soenksen, Hans, Stanger, Palm, and Schmidt. 3,153,096.

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Stanhope, Gordon P., to General Electric Co. X-ray tube with means to selectively deflect the electron beam to plural targets. 3,158,745, 11–24–64, Cl. 250—99.

Stanislao, Joseph, and E. B. Adamo, to Darlington Fabrics Corp. Capstans. 3,154,260, 10–27–64, Cl. 242—47.01.

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Stanley, Leonard A., and E. Marples, to The Kendall Co. Dimensionally stable, directionally stiff woven fabric. 3,163,185, 12–29–64, Cl. 139—420.

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Stanley, Mary E. Packages. 3,131,808, 5–5–64, Cl. 206—45.32.

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Stanley, Morris F. and M. W., to Ho-Maid Products Co. Apparatus for producing variegated ice cream. 3,129,673, 4–21–64, Cl. 107—101.

Stanley, Morris W.: *See—*
Stanley, Morris F. and M. W. 3,129,673.

Stanley, Oscar M. Supermarket cart. Re. 25,616, 7–14–64, Cl. 280—33.99.

Stanley, Richard B., E. Brinkley, and A. F. Rhino, to The Kartridg Pak Co. Apparatus for packaging fluid products. 3,148,759, 9–15–64, Cl. 198—22.

Stanley, Richard B., and E. Brinkley, to The Kartridg Pak Co. Apparatus for filling and sealing aerosol containers. 3,152,429, 10–13–64, Cl. 53—88.

Stanley, Richard B., and R. S. Rousseau, to The Kartridg Pak Co. Apparatus for production packaging of aerosol products. 3,157,974, 11–24–64, Cl. 53—88.

Stanley, Robert C., to White Sewing Machine Corp. Liquid level indicating gage. 3,119,268, 1–28–64, Cl. 73—331.

Stanley, Robert K., to Techniservice Corp. Method and apparatus for unwinding strand from a traverse-wound package or the like. 3,145,947, 8–25–64, Cl. 242—147.

Stanley, Vincent A., to Electric & Musical Industries Ltd. Photo-emissive devices. 3,119,037, 1–21–64, Cl. 313—94.

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Guest, Howard R., Stansbury, and Kiff. 3,127,449.

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Stansbury, Harry A., Jr., and H. R. Guest, to Union Carbide Corp. Process of producing 6-halo-2,5-dimethylhexanone-3. 3,122,587, 2–25–64, Cl. 260—593.

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Stansbury, Harry A., Jr., and D. T. Manning, to Union Carbide Corp. Process for producing glyoxal tetraethyl acetal. 3,130,234, 4–21–64, Cl. 260—615.

Stansbury, Harry A., Jr., J. A. Durden, Jr., and W. H. Catlette, to Union Carbide Corp. Polyfunctional aliphatic-bis-(v-triazole) compounds. 3,161,651, 12–15–64, Cl. 260—308.

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Stansfield, James R., to Hilger & Watts Ltd. Focussing arrangement for X-ray tubes. 3,143,679, 8–4–64, Cl. 313—57.

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Stanton, Arthur J., D. F. Anderson, R. E. Taylor, R. Butterworth, and R. T. Shawen, to United States of America, Navy. Automatic feed and control mechanism. 3,144,810, 8–18–64, Cl. 89—33.

Stanton, Arthur J., D. F. Anderson, and G. B. Boniface, to United States of America, Navy. Gun ejection mechanism. 3,152,511, 10–13–64, Cl. 89—33.

Stanton, Arthur J., D. F. Anderson, R. T. Shawen, and J. B. King, to United States of America, Navy. Ammunition transfer mechanism. 3,153,368, 10–20–64, Cl. 89—33.

Stanton, Edward W., and K. Perkins, to The Singer Co. Carrying case base for sewing machines. 3,162,406, 12–22–64, Cl. 248—20.

Stanton, Emmanuel J., to Standard Oil Co. Contacting apparatus. 3,130,014, 4–21–64, Cl. 23—288.

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Stanton, Walter O., to Pickering & Co., Inc. Magnetic phonograph pickup with compensating pole piece arrangement. 3,146,319, 8–25–64, Cl. 179—100.41.

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Stanulis, Leonard M., and G. D. Phillips, to Whirlpool Corp. Automotive dry cleaning machine with refrigeration means. 3,122,098, 3–3–64, Cl. 68—12.

Stanwick, Tad. Method and apparatus for anchor embedment. 3,118,417, 1–21–64, Cl. 114—206.

Stanwick, Tad. Swivel. 3,133,756, 5–19–64, Cl. 287—91.

Stanwyck, Edmund. Combined coil and coil form with integral conductive legs. 3,153,213, 10–13–64, Cl. 336—192.

Stanzel, George A., to Research Industries, Inc. Bunt bag. 3,118,427, 1–21–64, Cl. 119—157.

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Staples, Edmund B., and H. Schecter; said Staples assor. to United States of America, Air Force. Automatic ground-air communication system. 3,161,871, 12–15–64, Cl. 343—6.

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Staples, Robert L., R. R. Warnken, Jr., and C. H. Gleason, to Westinghouse Electric Corp. High energy neutron detector with evacuated chamber. 3,137,792, 6–16–64, Cl. 250—83.1.

Stapleton, John M., to Detrex Chemical Industries, Inc. Composition and method for coating stainless metal articles. 3,121,033, 2–11–64, Cl. 148—6.24.

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Stapp, Walter B., and F. W. Dietsch, to United States of America. Recoilless rifle firing mechanism. 3,144,808, 8–18–64, Cl. 89—1.7.
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Phillips, Benjamin, and Starcher. 3,158,590.
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Stark, Forest G., to Art Metal, Inc. Connector. 3,129,965, 4–21–64, Cl. 287—54.
Stark, Forest G., to Art Metal, Inc. Furniture construction. 3,157,446, 11–17–64, Cl. 312—195.
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Starks, Charles M., to Continental Oil Co. Alkanesulfonyl halide production from aluminum alkane sulfinates. 3,134,-809, 5–26–64, Cl. 260—543.
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Starp, Franz W. R., to Alfred Gauthier, G.m.b.H. Photographic camera control with manual and automatic selection. 3,136,235, 6–9–64, Cl. 95—64.
Starp, Franz W. R., to Alfred Gauthier, G.m.b.H. Photographic camera with built-in exposure meter. 3,148,603, 9–15–64, Cl. 95—10.
Starp, Franz W. R., to Alfred Gauthier G.m.b.H. Photographic intra-lens shutter construction having cover diaphragm. 3,154,000, 10–27–64, Cl. 95—64.
Starp, Franz W. R., E. Weller, and W. A. Erhard, to Alfred Gauthier G.m.b.H. Photographic shutter. 3,153,998, 10–27–64, Cl. 95—63.
Starr, Robert J. Net. 3,129,632, 4–21–64, Cl. 87—12.
Starr, Arthur T., to International Standard Electric Corp. Code converting arrangements for pulse code modulation systems. 3,136,988, 6–9–64, Cl. 340—347.
Starr, George N., and N. L. Pellerin Milnor Corp. Automatic imbalance control system for a clothes washing machine. 3,117,926, 1–14–64, Cl. 210—144.
Starre, Gerrit, to North American Philips Co., Inc. Head construction for a dry shaver. 3,125,808, 3–24–64, Cl. 30—43.
Starrett, James R., to The Bauer Bros. Co. Digester. 3,135,-651, 6–2–64, Cl. 162—237.
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Magers, Lloyd E. 3,149,724–7.

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Holman, Lee B. 3,158,569.
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Stebbins, Mark C. 3,131,669.
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Stedman, Robert J., to Smith Kline & French Laboratories. Intermediates for the preparation of antimicrobial agents and processes for their preparation. 3,124,576, 3–10–64, Cl. 260—243.
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Steele, Murphy, and H. R. Whitham, ⅓ to R. B. Gookins. Throwaway flashlight. 3,147,927, 9–8–64, Cl. 240—10.66.
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Steely, Betty R. Safety device for infants. 3,148,914, 9–15–64, Cl. 297—149.
Steen, Gottfrid W., to The Machlett Laboratories, Inc. Cooling system for anode sections separated by cylindrical X-ray window. 3,153,738, 10–20–64, Cl. 313—22.
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Stefani, Joseph P., R. A. Rawson, and P. L. Soldato, to General Electric Co. Adjustable sliding brush transformer. 3,160,841, 12–8–64, Cl. 336—137.
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Steffensen, Percy L., to Bethlehem Steel Co. Pelletizing apparatus. 3,154,806, 11–3–64, Cl. 18—1.
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Stegner, Harvey L. Sleeved deep draw cushion for punch presses. 3,130,962, 4–28–64, Cl. 267—1.
Stegner, Harvey L. Internally stabilized deep draw cushion for punch presses. 3,130,963, 4–28–64, Cl. 267—1.
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Steidinger, Arthur, H.-G. Hagenah, and G. Steinle. Portable sound instrument. 3,135,835, 6–2–64, Cl. 179—100.1.
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Steiger, Norbert, to Hoffmann-La Roche Inc. Oxazole formamidines of primary amines. 3,133,078, 5–12–64, Cl. 260—307.

Steiger, Norbert, to Hoffmann-La Roche Inc. Pyrimidine formamidines of primary amines. 3,135,755, 6–2–64, Cl. 260—256.4.
Steiger, Norbert, to Hoffmann-La Roche Inc. Phenylazo formamidines of primary amines. 3,153,033, 10–13–64, Cl. 260—205.
Steigerwald, Joseph F. Roller device for sliding closures. 3,137,028 6–16–64, Cl. 16—105.
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Steigerwald, Karl H. Apparatus for polymerization of liquid materials. 3,122,633, 2–25–64, Cl. 250—49.5.
Steigerwald, Karl H., to United Aircraft Corp. Method and apparatus for welding within an enclosure by means of a beam of charged particles. 3,151,231, 9–29–64, Cl. 219—121.
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Steimel, Karl, to Licentia Patent-Verwaltungs-G.m.b.H. Method and apparatus for regulating heat transfer. 3,123,980, 3–10–64, Cl. 62—3.
Stein, Benjamin. Adjustable support for curtain rods and the like. 3,128,075, 4–7–64, Cl. 248—265.
Stein, Donald P. Telescoping supports. 3,145,965, 8–25–64, Cl. 248—408.
Stein, Elmer A., to Coan Mfg. Co., Inc. Coin-operated gum machine. 3,139,168, 6–30–64, Cl. 194—71.
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Stein, John E. Valved shoe for pressure testing apparatus. 3,129,764. 4–21–64, Cl. 166—226.
Stein, Nathan, to Socony Mobil Oil Co., Inc. Plugging of permeable earth formations. 3,141,503, 7–21–64, Cl. 166—29.
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Stein, Werner, and R. Brockmann, to Henkel & Cie. G.m.b.H. Process for the percaboxylic acid epoxidation olefins in the presence of an aluminum oxide catalyst. 3,141,896, 7–21–64, Cl. 260—348.5.
Stein, Werner, and H. Schutt, to Henkel & Cie. G.m.b.H. Process for the production of aromatic di- and polycarboxylic acids. 3,156,695, 11–10–64, Cl. 260—295.
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Steinberg, Adalberto S. Friction clasp. 3,132,393, 5–12–64, Cl. 24—71.
Steinberg, Alfred A., to Republic Aviation Corp. Test apparatus for radar doppler navigators. 3,138,797, 6–23–64, Cl. 343—17.7.
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Steinberg, Howard, and A. L. McCloskey, to United States Borax & Chemical Corp. Method for preparing tris(alkylamino) boranes. 3,139,453, 6–30–64, Cl. 260—551.
Steinberg, Howard, D. L. Hunter, M. H. Pickard, and L. L. Petterson, to United States Borax & Chemical Corp. Preparation of organic monoborate salts. 3,163,506, 12–29–64, Cl. 44—76.
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Steinberg, John C., to Bell Telephone Laboratories, Inc. Torpedo control circuit. 3,118,409, 1–21–64, Cl. 114—23.
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Steinberg, Robert, and W. B. Schwab, to United States of America, National Aeronautics and Space Administration. Solid state power mapping instrument. 3,160,567, 12–8–64, Cl. 176—19.
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Steinbrecher, Lester, D. Y. Dollman, D. E. Buczkowski, and J. W. Harrison, to Amchem Products, Inc. Method and apparatus for measuring fluoride activity. 3,129,148, 4–14–64, Cl. 204—1.
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Steinemann, Willy, to Sandoz Ltd. Metallized dyes formed by coupling a benzene diazo component with a cyclic ketone. 3,146,226, 8–25–64, Cl. 260—148.
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Steiner, Fritz, also known as Friedrich Steiner, to International Standard Electric Corp. Direction finder or omnirange beacon with wide-aperture antenna system. 3,144,649, 8–11–64, Cl. 343—106.
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Steiner, James W., to International Telephone and Telegraph Corp. Frequency generator system. 3,144,623, 8–11–64, Cl. 331—178.
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Steiner, Maurice L. Device for obtaining a seal in a gas or oil well. 3,122,206, 2–25–64, Cl. 166—168.
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Steiner, Rene J. G., to Usines Tornos, Fabrique de Machines Moutier S.A. Safety device for a machine tool. 3,119,285, 1–28–64, Cl. 77—5.
Steiner, Richard F., to Lockheed Aircraft Corp. Multiple channel programmer for controlling a plurality of circuit operations in a predetermined time sequence. 3,124,722, 3–10–64, Cl. 317—139.
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Steingruebner, Arthur, to Wahl Bros. Zipper. 3,149,389, 9–22–64, Cl. 24—205.13.
Steingruebner, Arthur, to Wahl Brothers. Attaching method for slide fastener elements. 3,158,118, 11–24–64, Cl. 112—265.
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Lemin, Alan J., Steinhards, and Swank. 3,152,884.
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Steinmetz, Joseph N., Jr., and L. V. Giladett, to United States of America, Navy. Guillotine separation joint. 3,131,635, 5–5–64, Cl. 102—49.
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Steinwedel, Delmar C., to Seymour Tool & Engineering Co. Ironing table. 3,151,580, 10–6–64, Cl. 108—119.
Steiro, Harry. Concrete pipe making apparatus. 3,141,222, 7–21–64, Cl. 25—30.
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Stelzer, William, to Kelsey-Hayes Co. Divided output compound master cylinder. 3,140,587, 7–14–64, Cl. 60—54.6.
Stelzer, William, to Kelsey-Hayes Co. Brake pressure proportioning device. 3,143,125, 8–4–64, Cl. 137—38.
Stelzer, William, to Kelsey-Hayes Co. Divided output master cylinder. 3,143,860, 8–11–64, Cl. 60—54.6.
Stelzer, William, to Kelsey-Hayes Co. Booster brake mechanism. 3,143,926, 8–11–64, Cl. 91—369.
Stelzer, William, to Kelsey-Hayes Co. Vehicle brake mechanism. 3,147,042, 9–1–64, Cl. 303—6.
Stelzer, William, to Kelsey-Hayes Co. Brake pressure proportioning device. 3,147,045, 9–1–64, Cl. 303—24.
Stelzer, William, to Kelsey-Hayes Co. Brake pressure proportioning device. 3,147,046, 9–1–64, Cl. 303—24.
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Stencel, Fred B., to Stencel Aero Engineering Corp. Device for cushioning the landing of aerial loads. 3,116,901, 1–7–64, Cl. 244—138.
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Baker, Joseph W., and Stenseth. 3,152,146.
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Stenseth, Raymond E., and J. W. Baker, to Monsanto Chemical Co. Pentahalophenyl carbonates. 3,120,557, 2–4–64, Cl. 260—463.
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Stenstrom, Arthur J., and R. L. Walus, to R. L. Gannon. Body function sensor. 3,154,067, 10–27–64, Cl. 128—2.05.
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Stephan, Hallis N., to The New Britain Machine Co. Electric switch having selectively latched manually movable member. 3,139,491, 6–30–64, Cl. 200—5.
Stephan, Joseph, to C. Newman. Mineral recovery unit. 3,143,495, 8–4–64, Cl. 209—440.
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Stephens, Charles S., to Star Industrial Supply Corp. Plumbing equipment having eye-bolt securing means. 3,144,261, 8–11–64, Cl. 285—114.
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Stephens, Joe F., to General Electric Co. Anode electrode for electron discharge devices and method of making the same. 3,151,265, 9–29–64, Cl. 313—356.
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Stephens, John A., and G. H. Birum, to Monsanto Co. Microorganism toxic alpha-chloro-beta-cyanoethylaryl sulfones. 3,140,226, 7–7–64, Cl. 167—30.
Stephens, John A., and E. J. Prill, to Monsanto Co. Biological toxicant. 3,141,818, 7–21–64, Cl. 167—30.
Stephens, Joseph F., to Gustin-Bacon Mfg. Co. Acoustical insulation and method of making same. 3,124,212, 3–10–64, Cl. 181—33.
Stephens, Joseph F., to Gustin-Bacon Mfg. Co. Edge sealing insulation panels. 3,141,206, 7–21–64, Cl. 20—15.
Stephens, Lloyd D., to United States of America, Atomic Energy Commission. Apparatus for correcting sensitivity variations in photomultiplier tubes. 3,149,968, 9–22–64, Cl. 96—27.
Stephens, Paul B. Handkerchief holder. 3,135,967, 6–9–64, Cl. 2—279.
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Stephens, Richard G., to General Precision, Inc. Three-phase interferometer. 3,127,465, 3–31–64, Cl. 88—14.
Stephens, Thomas H. and J. H. Masonry cutter. 3,161,190, 12–15–64, Cl. 125—23.
Stephens, Vernon E. Cutting tool. 3,149,534, 9–22–64, Cl. 90—12.
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Stephens, Will R., to Barnard & Leas Mfg. Co., Inc. Method of producing a mixed liquid fertilizer containing nitrogen and phosphorus. 3,130,033, 4–21–64, Cl. 71—1.
Stephens, William E., Jr. Swing-type garment pocket having a combined re-inforcing patch and binding strip. 3,137,866, 6–23–64, Cl. 2—248.
Stephenson, Alvis D., Jr., to Texas Instruments Inc. Conductor laminate packaging of solid-state circuits. 3,118,016, 1–14–64, Cl. 174—68.5.
Stephenson, Carl G., C. L. Crocker, and E. Bismeyer, to Record King Sales Ltd. Phonograph record dispensing apparatus. 3,159,307, 12–1–64, Cl. 221—129.
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Stewart, Raymond M., and B. P. Petrich. Collapsible fish barge. 3,150,627, 9–29–64, Cl. 114—74.
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Stohr, Jacques-Andre, and M. Gauthron, to Commissariat a l'Energie Atomique. Fuel elements for nuclear reactors. 3,129,140, 4–14–64, Cl. 176—76.
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Stoker, Donald J., L. S. Mims, and S. Siegel, to North American Aviation, Inc. Steam superheat boiling water nuclear reactor. 3,150,052, 9–22–64, Cl. 176—54.
Stokes, Agnes B. Portable appliance for delineating a playing field for the game of hopscotch. 3,136,545, 6–9–64, Cl. 273—1.
Stokes, Charles A., G. B. Kistiakowsky, and G. A. Engelson; said Stokes and said Kistiakowsky, assors. to Cabot Corp. Method of preparing metallic oxides by hydrolysis of metallic halides. 3,130,008, 4–21–64, Cl. 23—140.
Stokes, Charles G.: *See*—
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Stokes, David E., to Pennsalt Chemicals Corp. Drying apparatus. 3,135,589, 6–2–64, Cl. 34—73.
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Stoll, Alice M., and L. R. Munroe, to United States of America, Navy. Method and apparatus for thermal analyses. 3,148,531, 9–15–64, Cl. 73—15.
Stoll, Christof, and T. Gunther. Chair with adjustable spring means. 3,133,763, 5–19–64, Cl. 297—304.
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Stoll, Robert F. Fishing line and float connector. 3,145,499, 8–25–64, Cl. 43—44.91.
Stoll, Willy, and H. Dietrich, to Geigy Chemical Corp. N'-substituted N-sulphonyl-ureas. 3,124,597, 3–10–64, Cl. 260—332.2.
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Stollenwerk, Hubert F.: *See*—
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Stoller, Frederick L., to Phillips Petroleum Co. Catalyst determination in the products of catalytic reaction by radioactive tracer. 3,124,688, 3–10–64, Cl. 250—106.
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Stoller, Hugh M., deceased, by M. M. Stoller, executrix, to United States of America, Army. Self-regulating power supply. 3,125,027, 3–17–64, Cl. 102—70.2.
Stoller, Hugh M., deceased; by M. M. Stoller, executrix, to United States of America, Army. Dynamo-electric machine construction. 3,130,337, 4–21–64, Cl. 310—258.
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Stoltman, Donald D., to General Motors Corp. Vehicle road speed control system. 3,120,874, 2–11–64, Cl. 180—82.1.
Stoltman, Donald D., to General Motors Corp. Friction feedback speed control. 3,155,188, 11–3–64, Cl. 180—82.1.
Stoltman, Donald D., and T. R. Beveridge, to General Motors Corp. Vehicle road speed control system. 3,125,178, 3–17–64, Cl. 180—82.1.
Stoltz, Herbert C., to AMP Inc. Connector applying tool. 3,135,310, 6–2–64, Cl. 153—1.
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Stone, Allen W., and W. H. Chapin. Protective covering for scaffolding. 3,121,470, 2–18–64, Cl. 182—129.
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Stone, Colwyn F., to S. Smith & Sons (England) Ltd. Automatic pilot for aircraft. 3,122,344, 2–25–64, Cl. 244—77.
Stone Container Corp.: *See*—
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Stone, Guthrie B. Potato ricer. 3,122,986, 3–3–64, Cl. 99—246.
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Stone, Herman J., to The Independent Nail Corp. Shoe heel and heel reinforcing pin attached tread element therefor. 3,134,180, 5–26–64, Cl. 36—36.
Stone, Horace A., to Molins Machine Co. Ltd. Mechanism for joining webs of material. 3,138,341, 6–23–64, Cl. 242—58.4.
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Stone, Jack T., and A. J. Luirette, to Whittaker Corp. Process of mixing glass flakes with a normally liquid resin in frozen, comminuted form. 3,151,095, 9–29–64, Cl. 260—37.
Stone, Jim E. Feed trough. 3,121,418, 2–18–64, Cl. 119—61.
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Murray, Thomas C., Stone, and Reese. 3,150,004.
Stone, Joseph J., Jr., to A. B. Dick Co. Electrostatic writing means. 3,136,917, 6–9–64, Cl. 315—12.
Stone, Joseph J., Jr., to A. B. Dick Co. Electrostatic printing tube having unique anode structure. 3,157,811, 11–17–64, Cl. 313—73.
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Stone, Lawrence H., to Pennsalt Chemicals Corp. Centrifuge having automatic means for controlling peripheral openings. 3,160,589, 12–8–64, Cl. 233—20.
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Stone, Leonard R., T. J. Radcliffe, and G. W. Sower, to Republic Steel Corp. Blast furnace stock level control comprising radioactive source and detector. 3,133,191, 5–12–64, Cl. 250—43.5.
Stone, Llewellyn E., and N. Hilt; said Hilt assor. to said Stone. Self-adjusting brake. 3,136,391, 6–9–64, Cl. 188—79.5.
Stone, Louis A., to Philip Morris Inc. Razor blade changing mechanism. 3,151,738, 10–6–64, Cl. 206—16.
Stone, Orison W., and E. P. Pioppo, to Riegel Paper Corp. Boxboard container. 3,124,299, 3–10–64, Cl. 229—81.
Stone, Richard S., to Anderson Controls, Inc. Solenoid having a rotatable back stop for the plunger. 3,117,257, 1–7–64, Cl. 317—186.
Stone, Richard W., A. W. Ackerman, and C. L. Nyquist, to Publisher's Vending Services, Inc. Book vending machine. 3,160,315, 12–8–64, Cl. 221—127.
Stone, Robert R., Jr., to United States of America, Navy. Coordinate system frequency synthesizer. 3,119,078, 1–21–64, Cl. 331—38.
Stone, Robert R., Jr., to United States of America, Navy. FSK keying system embodying phase coherence. 3,158,810, 11–24–64, Cl. 325—163.
Stone, Robert R., Jr., to United States of America, Navy. Narrow band f.s.k. system employing stabilized frequency control. 3,162,812, 12–22–64, Cl. 325—163.
Stone, Robert R., Jr., and H. F. Hastings. Digit control frequency synthesizer. 3,125,729, 3–17–64, Cl. 331—30.
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Stonebanks, David A., to Continental Can Co., Inc. Multiply fibre board containers. 3,159,326, 12–1–64, Cl. 229—14.
Stoneberg, Fred, and R. Dorweiler. Pressure control for flame cutting torches. 3,161,226, 12–15–64, Cl. 158—27.4.
Stonecipher, Ernest M. Electric welding torch. 3,151,232, 9–29–64, Cl. 219—139.
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Beaver, Wallace W., Paine, and Stonehouse. 3,150,975.
Stonehouse, Albert J., and R. M. Paine, to The Brush Beryllium Co. Intermetallic compositions and bodies. 3,150,968, 9–29–64, Cl. 75—150.
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Stookey, Kenneth W. Recuperator. 3,129,931, 4–21–64, Cl. 263—20.
Stookey, Stanley D., to Corning Glass Works. Method of forming metallic films on glass. 3,135,046, 6–2–64, Cl. 29—424.
Stookey, Stanley D., to Corning Glass Works. Low expansion glass-ceramic and method of making it. 3,157,522, 11–17–64, Cl. 106—52.
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Backstrom, Sven H., and Berglov. 3,131,037.
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Storchheim, Samuel, to De Vitre-Teja Industries Co. Process for strip cladding by hot rolling of particulate material. 3,142,560, 7–28–64, Cl. 75—208.
Storchheim, Samuel, to Alloys Research & Mfg. Corp. Method of making electrical resistance iron-aluminum alloys. 3,144,330, 8–11–64, Cl. 75—226.
Storchheim, Samuel, to Alloys Research & Mfg. Corp. Method of fabricating nuclear fuel elements and the like. 3,150,973, 9–29–64, Cl. 75—208.
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Storchheim, Samuel, to Alloys Research & Mfg. Corp. Method of making lead storage battery grids. 3,153,590, 10–20–64, Cl. 75—226.
Storchheim, Samuel, to Alloys Research & Mfg. Corp. Coating metal articles by powdered metals. 3,163,527, 12–29–64, Cl. 75—206.

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Peterson, Seymour, and Granath. 3,157,156.
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Stormann-Menninger, Heimo, R. Schönbeck, and E. Kloimstein, to Osterreichische Steckstoffwerke Aktiengesellschaft. 3 halogeno pyridazine-6-mercaptoalkanoic acid amides. 3,155,662, 11–3–64, Cl. 260—250.
Stormer, Joseph R., and J. C. Jacobs, to General Motors Corp. Shock absorber with preformed plastic gas cell. 3,123,347, 3–3–64, Cl. 267—1.
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Story, Roger F., to Northern Electric Co. Ltd. Hybrid feedback amplifier. 3,134,080, 5–19–64, Cl. 330—102.
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Green, Rowland P. 3,160,398.
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Stott, Louis L., to The Polymer Corp. Addition of carbonamides to polyethylene to increase abrasion resistance. 3,136,735, 6–9–64, Cl. 260—45.5.
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Stough, Gerald D., to Whitehead & Kales Co. Means for anchoring merchandise carrying racks within transport vehicles. 3,116,702, 1–7–64, Cl. 105—369.
Stough, Gerald D., to Whitehead & Kales Co. Bumper strut type rack structure. 3,132,603, 5–12–64, Cl. 105—369.
Stoughton, Lincoln D., J. M. Blocher, Jr., and N. D. Veigel, to United States of America, Atomic Energy Commission. Ceramic coated fuel particles. 3,121,047, 2–11–64, Cl. 176—69.
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Stout, William H. Mobile irrigation system. 3,163,361, 12–29–64, Cl. 239—212.
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Stout, Wylie A.: *See*—
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Stouth, Orlin W. Device for spacing furniture from walls. 3,137,090. 6–16–64, Cl. 45—137.
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Stover, William A., and W. S. Briggs, to W. R. Grace & Co. Process for the preparation of a clay cracking catalyst. 3,123,575, 3–3–64, Cl. 252—450.
Stover, William A., and W. S. Briggs, to W. R. Grace & Co. Preparation of cracking catalysts from clay. 3,130,170, 4–21–64, Cl. 252—450.
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Hughes, James W., and Stowell. 3,142,064.
Stowell, Nathan J., to J. W. Hughes. Public address apparatus. 3,129,782, 4–21–64, Cl. 181—31.
Stowell, Nathan J., to J. W. Hughes. Housing and mount for loud speakers. 3,129,783, 4–21–64, Cl. 181—31.
Stoy, Arthur, and M. Sivokova. Method of manufacturing colored oriented articles from acrylonitrile polymers and copolymers. 3,121,606, 2–18–64, Cl. 8—55.
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Strache, Horst, to Friedrich-Wilhelm Jeroch. Device for heating or cooling a medium, particularly air, by means of high pressure. 3,151,673, 10–6–64, Cl. 165—155.
Strack, Erich, and I. Lorenz, to VEB Berlin-Chemi. Production of pure D- and L-carnitine-nitrile-chloride. 3,151,149, 9–29–64, Cl. 260—465.5.
Stradella, Giuseppe. Locking device for pressure ring. 3,141,208, 7–21–64, Cl. 24—20.
Stradella, Giuseppe. Eccentric float device for the automatic actuation of the check valve of the breathing pipes of diving masks or the like. 3,141,469, 7–21–64, Cl. 137—41.
Strader, Don S., to The Frank G. Hough Co. Hydraulic control valve operating responsive to hydraulic load pressures. Re. 25,643, 9–22–64, Cl. 91—415.
Strader, Don S., to The Frank G. Hough Co. Packing set. 3,132,568, 5–12–64, Cl. 92—78.
Strader, Don S., to The Frank G. Hough Co. Valve for hydraulically operated clutches. 3,139,908, 7–7–64, Cl. 137—625.48.
Strader, Don S., to The Frank G. Hough Co. Ejector mechanism for tractor loaders. 3,140,001, 7–7–64, Cl. 214—140.
Strader, Don S., to The Frank G. Hough Co. Flow control valve. 3,156,257, 11–10–64, Cl. 137—494.
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Straley, James M., and R. C. Harris, to Eastman Kodak Co. 1,4 - dihydroxy - 2 - alkylaminoalkylaminoanthraquinone dye compounds and acrylic materials dyed therewith. 3,153,059, 10–13–64, Cl. 260—379.
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Stram, Harold E. Sonic fish bait. 3,142,927, 8–4–64, Cl. 43—42.31.
Stram, Le Roy, Jr., S. A. Genden, and H. C. Maskey, to Continental Aviation and Engineering Corp. Starting system. 3,124,933, 3–17–64, Cl. 60—39.82.
Stram, Oscar B., and E. V. Trocky, to Burroughs Corp. Magnetic storage arrangement. 3,156,905, 11–10–64, Cl. 340—174.
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Strandberg, Charles F., Jr., to Strandberg Engineering Laboratories, Inc. Automatic grain moisture control. 3,144,029, 8–11–64, Cl. 134—57.
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Strandberg, Charles F., Jr. 3,144,029.
Strandberg, Malcolm W. P. Photosensitive switching device in a waveguide. 3,143,655, 8–4–64, Cl. 250—239.
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Strang, Charles D., to Kiekhoefer Corp. Shift mechanism for outboard propulsion units. 3,136,172, 6–9–64, Cl. 74—378.
Strang, John M., and D. S. Ritchie, to Barr and Stroud Ltd. Periscopes with compensation for image motion caused by bending. 3,133,143, 5–12–64, Cl. 88—72.
Strange, Booth B., to Western Geophysical Co. of America. Dual seismic surveying system. 3,133,262, 5–12–64, Cl. 340—7.
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Strasmann, Albert, to Albert Strasmann Prazisions-Werkzeug- und Maschinenfabrik. Milling cutter. 3,129,492, 4–21–64, Cl. 29—103.
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Stratford, William M., to Texaco Development Corp. Generation of fuel gas from oil shale. 3,118,746, 1–21–64, Cl. 48—197.
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Stratienko, Andrew, to King of Prussia Research and Development Corp. Variable angle mixer drive. 3,120,948, 2–11–64, Cl. 259—111.
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Straub, Hermann, to Aktiengesellschaft Zahnradfabrik Friedrichshafen. Change speed gear with engine control. 3,118,319, 1–21–64, Cl. 74—472.
Straub, Hermann, A. Blum, and F. Bialek, to Zahnradfabrik Friedrichshafen, Aktiengesellschaft. Electromagnetic positive drive clutch. 3,157,260, 11–17–64, Cl. 192—84.
Straub, Joseph E., to Illinois Tool Works, Inc. Rotary solenoid. 3,136,930, 6–9–64, Cl. 317—192.
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Strauss, Leopold. Door operating apparatus. 3,161,909, 12–22–64, Cl. 16—70.
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Strauss, Margaret B., to Miles Laboratories, Inc. Water-insoluble whole inhalant complex and method of making same. 3,148,121, 9–8–64, Cl. 167—78.
Strauss, Margaret B., to Miles Laboratories, Inc. Water-insoluble whole pollen complex and method of making same. 3,148,122, 9–8–64, Cl. 167—78.
Strauss, Nathan J. Glove. 3,152,338, 10–13–64, Cl. 2—163.
Strauss, Raymond C. Vehicle controls. 3,145,537, 8–25–64, Cl. 60—54.6.
Strauss, Raymond C. Starter control. 3,153,943, 10–27–64, Cl. 74—472.

Strauss, Wennemar, to Dehydag, Deutsche Hydrierwerke G.m.b.H. Procedure for regeneration of nickel baths. 3,122,490, 2–25–64, Cl. 204—49.
Straussler, Nicholas P. S., to F. A. Hughes & Co., Ltd. Folding boat hull. 3,116,496, 1–7–64, Cl. 9—2.
Straussler, Nicholas P. S. Vehicle wheel. 3,163,199, 12–29–64, Cl. 152—324.
Straw, Douglas, to General Aniline & Film Corp. Alkali-soluble resins with non-colloidal silica for precoating diazotype materials. 3,163,535, 12–29–64, Cl. 96—75.
Straw, Jesse H., and W. F. Aller, to The Sheffield Corp. Method of making a nozzle. 3,150,442, 9–29–64, Cl. 29—157.
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Strebinger, Richard R., D. L. Criswell, and W. C. Wintrode, to The Bendix Corp. Power turbine speed control for turboprop engines. 3,139,894, 7–7–64, Cl. 137—34.
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Strecker, Harold A., to The Standard Oil Co. Process for rejuvenation hydrocracking catalysts. 3,158,563, 11–24–64. Cl. 208—111.
Street, Eugene L., to Varian Associates. Gaseous discharge control device. 3,136,919, 6–9–64, Cl. 315—39.
Street, Eugene L., and H. A. Sleeper, to Varian Associates. Microwave transmission gaseous discharge control device having gas reservoir. 3,147,395, 9–1–64, Cl. 313—174.
Street, Frederick G., to Air Reduction Co., Inc. Capped film resistors. 3,153,219, 10–13–64, Cl. 338—273.
Street, Grover W. Combined golf ball and golfer's feet positioning device. 3,141,675, 7–21–64, Cl. 273—187.
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Hechelhammer, Wilhelm, and Streib. 3,155,756.
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Strickland, Gerald, R. Johnson, F. L. Horn, and C. B. H. Barlett, to United States of America, Atomic Energy Commission. Method of reprocessing nuclear fuel elements. 3,145,078, 8–18–64, Cl. 23—14.5.
Strickland, Richard G., and A. J. Wennerstrom, to Aircraft Armaments, Inc. Means for launching projectiles. 3,129,636, 4–21–64, Cl. 89—1.7.
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Strid, Carl J., to Stratovalve & Engineering Co. Quick release pneumatic control valve. 3,125,380, 3–17–64, Cl. 303—69.
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Strief, Dean A., to Avco Corp. Frequency spectrum generator utilizing diode and RC combination to effect amplification and harmonic generation. 3,158,752, 11–24–64, Cl. 307—88.5.
Striegl, George. Rotary compressors, pumps and the like. 3,129,669, 4–21–64, Cl. 103—157.
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Strnad, James J., and H. B. Van Auken, to Lempco Products, Inc. Platen-leveling control system for hydraulically-actuated brake presses. 3,120,799, 2–11–64, Cl. 100—46.
Strobel, Albert F., and S. C. Catino, to General Aniline & Film Corp. α-cyano-2-alkenoxy-1-naphthaleneacrylic acid esters. 3,149,146, 9–15–64. Cl. 260—465.
Strobel, Charles W., to Phillips Petroleum Co. Process of preparing gel free block copolymers by using a non-polymerizable nitrogen-containing compound; and products prepared thereby. 3,144,429, 8–11–64, Cl. 260—45.5.
Strobel, Charles W., to Phillips Petroleum Co. Polymerization initiators. 3,157,604, 11–17–64, Cl. 252—431.
Strobel, Howard E., to Eastman Kodak Co. Flash reflector with improved corner illumination. 3,132,812, 5–12–64, Cl. 240—41.35.
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Strock, Lester W., to Sylvania Electric Products Inc. Process for increasing the brightness of electro-luminescent phosphors. 3,152,995, 10–13–64, Cl. 252—301.6.
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Shansky, David, and Strohmeier. 3,140,400.
Strohmeyer, Charles, Jr., to Gilbert Associates, Inc. Steam generator by-pass systems for a steam-electric generating plant. 3,159,145, 12–1–64, Cl. 122—1.
Strohmeyer, Charles, Jr., to Gilbert Associates, Inc. Fluid circulation system for a once-through type steam generator. 3,162,179, 12–22–64, Cl. 122—406.
Strohmeyer, Max, and H. Friederich, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Purification of 2,5-dihydrofuran. 3,163,660, 12–29–64, Cl. 260—346.1.
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Stromberg, Ralph O., to Stromberg Hydraulic Brake & Coupling Co. Hydraulic brake for automotive vehicles. 3,137,369, 6–16–64, Cl. 188—112.
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Strope, Thom C., to The Goodyear Tire & Rubber Co. Shoe heel containing grooves around insert. 3,154,867, 11–3–64, Cl. 36—35.
Strother, Roscoe S. Door block. 3,124,382, 3–10–64, Cl. 292—343.
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Strub, Henry M., Jr., to The Duplan Corp. Yarn treating method and apparatus for knitting machines. 3,139,741, 7–7–64, Cl. 66—125.
Strubberg, Ronald J., to Curtiss-Wright Corp. Thermal time relay with large time constant. 3,123,695, 3–3–64, Cl. 200—122.
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Struble, Arthur D., Jr. Balloon and parachute combination. 3,154,268, 10–27–64, Cl. 444—32.
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Strum, Ralph E., and R. H. Morgan, to The Bendix Corp. Distributed amplifier with low noise. 3,127,568, 3–31–64, Cl. 330—54.
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Strumpf, Richard. Fishing clip. Re. 25,650, 10–6–64, Cl. 43—43.12.
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Stryker, Seymour F., to Air-Mite Devices Inc. Exhaust valve silencer with sintered metal silencing disc. 3,163,255. 12–29–64, Cl. 181—50.

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Stuart, Frank A., and R. G. Anderson, to California Research Corp. Lubricating oil compositions containing N-substituted alkenyl succinimides in combination wth polyamines. 3,131,150, 4–28–64, Cl. 252—34.7.

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Stuart, Frank A., and W. Lowe, to California Research Corp. Amido-bis-imidazolines in lubricating oil compositions. 3,152,080, 10–6–64, Cl. 252—51.5.

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Stuart, Whitfield M. P. Current supply including high frequency component for spark erosion machining apparatus. 3,161,752, 12–15–64, Cl. 219—69.

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Stuart-Williams, Raymond, to Ampex Corp. Magnetic information-storage device. 3,162,845, 12–22–64, Cl. 340—174.

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Stubblefield, Thomas A., ⅓ to J. F. Brooks and J. H. Hancock. Drapery-operating system. 3,119,443, 1–28–64, Cl. 160—345.

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Stuckens, Leo J., to American Photocopy Equipment Co. Photocopy device. 3,139,017, 6–30–64, Cl. 95—75.

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Stuckwisch, Clarence G., and N. F. Blau, to United States of America, Army. 3-thiosteroids and method of preparation. 3,158,626, 11–24–64, Cl. 260—397.2.

Stucky, Clifford P. and O. P. Rain gage. 3,127,769, 4–7–64, Cl. 73—171.

Stucky, Mabel G., and H. M. Balzer. Memorial guest book holder. 3,139,696, 7–7–64, Cl. 45—60.

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Stüdli, Hans, Sr. Multiple screw press. 3,124,061, 3–10–64, Cl. 100—146.

Stuessel, John K., and G. K. Segerlund, to Flexiflor Electrical Systems, Inc. Accessories for electrical wiring systems. 3,118,558, 1–21–64, Cl. 220—3.4.

Stuetzer, Otmar M., to General Mills, Inc. Method of producing an aerosol. 3,118,843, 1–21–64, Cl. 252—305.

Stuetzer, Otmar M., to Litton Systems, Inc. Ice warning device. 3,134,563, 5–26–64, Cl. 244—134.

Stuetzer, Otmar M., to Litton Systems, Inc. Magnetohydrodynamic pump. 3,135,208, 6–2–64, Cl. 103—1.

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Stulen, Frank L., and A. C. Ballauer, to Parsons Corp. Composite construction for helicopter rotor blades and the like. 3,123,144, 3–3–64, Cl. 170—159.

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Stull, Herman L. Live fish container. 3,141,257, 7–21–64, Cl. 43—55.

Stull, John A., to Salisbury Corp. Tire buffing machine. 3,162,233, 12–22–64, Cl. 157—13.

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Stump, Eugen, and P. E. Strifler, to Daimler-Benz Aktiengesellschaft. Double axle suspension and steering arrangement. 3,155,397, 11–3–64, Cl. 280—81.5.
Stumpers, Frans L. H. M., and R. Schutte, to North American Philips Co., Inc. Device for stereophonic reproduction of signals. 3,123,673, 3–3–64, Cl. 179—15.
Stumpers, Frans L. H. M., and R. Schutte, to North American Philips Co., Inc. Circuit arrangement for producing the sum and difference of two low-frequency signals. 3,123,-779, 3–3–64, Cl. 330—69.
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Stumpf, Frank M., to United States Mineral Wool Co. Apparatus for wetting dry materials. 3,118,459, 1–21–64, Cl. 134—155.
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Stupfel, Clifford L., and J. H. R. Gelissen, to Crown Zellerbach Corp. Method and apparatus for sorting automatically logs and like objects. 3,138,258, 6–23–64, Cl. 209—82.
Sturdevant, Albert G., P. E. Cope, and R. B. Vanderman, to The Procter & Gamble Co. Composite package. 3,160,326, 12–8–64, Cl. 222—183.
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Ruger, William B., and Sefried. 3,142,924.
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Stutz, William, and C. N. Premo, to Springfield Cast Products, Inc. Automatic molding press. 3,159,875, 12–8–64, Cl. 18—5.
Stutzke, Robert E. Combined target, globular raceway and adjustable projector. 3,117,787, 1–14–64, Cl. 273—101.
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Suchland, Fred G. Spring powered bowling ball projector with adjustable cam controlled release. 3,142,292, 7–28–64, Cl. 124—7.
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Suchodolski, John E., G. Fehlberg, and W. W. Lunzman, to Menasha Corp. Paperboard carton end construction. 3,118,585, 1–21–64, Cl. 229—16.
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Suckling, Charles W., and J. Raventos, to Imperial Chemical Industries Ltd. 1,1,1-Trifluoro-2-bromo-2-chloroethane and a process of making it. Re. 25,544, 3–31–64, Cl. 167—52.
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Sudrow, Lyle K. V., to Helipod, Inc. Automatic auto-rotating means for aircraft sustaining rotor. 3,126,967, 3–31–64, Cl. 170—160.13.
Sudrow, Lyle K. V., to Helipod, Inc. Ducted sustaining rotor for aircraft. 3,127,093, 3–31–64, Cl. 230—123.
Sudrow, Lyle K. V., to Helipod, Inc. Directional control means for rotor sustained aircraft. 3,127,131, 3–31–64, Cl. 244—50.
Sudrow, Lyle K. V., to Helipod, Inc. Ducted rotor aircraft. 3,135,481, 6–2–64, Cl. 244—23.
Sueki, Tometaro. Telephone dial. 3,134,860, 5–26–64, Cl. 179—90.
Suerkemper, Wilhelm, to International Standard Electric Corp. Electromagnetic track apparatus, particularly for axle-counting systems in railway safety installations. 3,144,227, 8–11–64, Cl. 246—249.
Suerkemper, Wilhelm, and H. Zeeh, to International Standard Electric Corp. Arrangement for evaluating the pulses in railway axle-counting systems. 3,144,225, 8–11–64, Cl. 246—77.
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Sugarman, Harry. Slip cover. 3,116,953, 1–7–64, Cl. 297—225.
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Sugawara, Masao: *See*—
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Sugi, Masao, and K. Murai, to Sumitomo Electric Industries, Ltd. Coaxial conductor having parallel connected stranded layers of different pitch for equalizing inductance and current distribution. 3,163,836, 12–29–64, Cl. 333—96.

Sugihara, Akira: *See*—
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Sugihara, Takashi F., and L. Kline, to United States of America, Agriculture. Making cake doughnut mixes with yolk-containing egg products. 3,152,910, 10–13–64, Cl. 99—94.

Sugino, Kiichiro, K. Shirai, and R. Kitawaki, to Nippon Carbide Kogyo Kabushiki Kaisha. Manufacturing method of alkylenedicyanamide. 3,130,224, 4–21–64, Cl. 260—551.

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Sugioka, Isao: *See*—
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Suh, Nam P., D. F. Stewart, and R. M. Lamade, to Sweetheart Plastics Inc. Method for making and forming plastic material. 3,159,698, 12–1–64, Cl. 264—210.

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Suhre, Pearce E., to Clary Corp. Engine cooling and silencing system. 3,147,814, 9–8–64, Cl. 180—54.

Suisse, Marcel, ½ to Regie Nationale des Usines Renault. Automobile air conditioning means. 3,118,362, 1–21–64, Cl. 98—2.

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Suits, Kingsley S., and A. L. Evers, to Hollis E. Suits Family Laundry. Ironing machine. 3,118,239, 1–21–64, Cl. 38—55.

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Sulkowski, Theodore S., and S. J. Childress, to American Home Products Corp. 5-aryl-3,1,4-benzoxadiazepine-2(1H)-ones. 3,152,145, 10–6–64, Cl. 260—333.

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Sullivan, Alfred D., to American Radiator & Standard Sanitary Corp. Sequence changer. 3,122,003, 2–25–64, Cl. 62—157.

Sullivan, Charles J. Educational scoring device. 3,126,649, 3–31–64, Cl. 35—48.

Sullivan, Edward J., to The Dow Chemical Co. Aqueous suspension clarification method. 3,146,193, 8–25–64, Cl. 210—54.

Sullivan, Frederick, and R. F. Larsen, to Arthur D. Little, Inc. Chewing gum and process of making the same. 3,117,872, 1–14–64, Cl. 99—135.

Sullivan, George C., and A. B. Vosseller, to Lockheed Aircraft Corp. Apparatus for making laminated building panels of cellular structure. 3,139,369, 6–30–64, Cl. 156—563.

Sullivan, George H., to Spacelabs Inc. Electrode for electromedical equipment. 3,151,619, 10–6–64, Cl. 128—417.

Sullivan, George H., and A. D. Bredon, to Spacelabs, Inc. Dynamic fluid pressure transducer. 3,124,132, 3–10–64, Cl. 128—2.05.

Sullivan, George W., to Union Carbide Corp. Process for making molds. 3,151,369, 10–6–64, Cl. 22—193.

Sullivan, Herbert D., and G. O. Tufts, to International Harvester Co. Knot stripper for balers. 3,127,204, 3–31–64, Cl. 289—15.

Sullivan, Herbert D., and H. N. Grillot, to International Harvester Co. Agricultural apparatus. 3,139,969, 7–7–64, Cl. 198—128.

Sullivan, Ivan S., 40% to Reelfoot Alfalfa Mill. Combined feeder, conditioner, and dewaterer for a dehydrator. 3,144,818, 8–18–64, Cl. 100—98.

Sullivan, Jack G. Reversible sliding door panels. 3,136,396, 6–9–64, Cl. 189—46.

Sullivan, Jack O., and D. H. Vogel, to Fansteel Metallurgical Corp. Boring bar. 3,152,493, 10–13–64, Cl. 77—58.

Sullivan, James F., to Overstrom & Sons, Inc. Tensioned ribbon screen. 3,123,558, 3–3–64, Cl. 210—389.

Sullivan, James L., and F. P. Papasso, to United States of America, Navy. Automatic frequency control. 3,121,221, 2–11–64, Cl. 343—5.

Sullivan, John J. Automobile parking meter. 3,144,114, 8–11–64, Cl. 194—84.

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Sullivan, John W., to Varian Associates. Traveling wave tubes having helix derived slow-wave circuits with tapered support stubs and loading means. 3,142,777, 7–28–64, Cl. 315—3.5.

Sullivan, Lawrence R., Jr., ⅓ to L. F. Muccino, and ⅓ to R. C. Laurelli. Slip resistant grip for handles of golf clubs. 3,147,012, 9–1–64, Cl. 273—165.

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Sullivan, Miles V., to Bell Telephone Laboratories, Inc. Method for polishing gallium arsenide. 3,156,596, 11–10–64, Cl. 156—17.

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Sullivan, Ross J., to A. B. Chance Co. Method of installing earth anchors. 3,148,510, 9–15–64, Cl. 61—53.68.

Sullivan, Timothy J. Pressure and temperature protector for automatic full flow shut-off valve. 3,140,721, 7–14–64, Cl. 137—73.

Sullivan, Veida L., and J. Dorsey, to Baldwin-Lima-Hamilton Corp. Electric strain gage. 3,138,775, 6–23–64, Cl. 388—2.

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Summerour, Benjamin F. Automatic chicken feeder and manure remover. 3,158,137, 11–24–64, Cl. 119—22.

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Suofy, Hugh M. Workpiece transfer device. 3,138,128, 6–23–64, Cl. 113—38.
Suofy, Hugh M. Work transfer mechanism for punch presses. 3,155,241, 11–3–64, Cl. 214—1.
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Suozzo, Leonard S. Spring support device. 3,148,870, 9–15–64, Cl. 267—1.
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Swanke, Roy, and D. G. Lord, to Landers, Frary & Clark. Rotary switch with U-shaped rotatable contact structure. 3,140,364, 7–7–64, Cl. 200—11.
Swann, Carl C.: *See*—
Glynn, Theodore W., and Swann. 3,141,592.
Swann, James S., to Stanray Corp. Roof for railway car and method of making same 3,148,481, 9–15–64, Cl. 50—38.
Swanson, Allen K.: *See*—
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Swanson, Arthur F., to Ideal Industries, Inc. Insulating protector. 3,139,481, 6–30–64, Cl. 174—138.
Swanson, Arthur M., to Wisconsin Alumni Research Foundation. Sterile cream product. 3,117,879, 1–14–64, Cl. 99—212.
Swanson, Bror W. Utility clamp assembly. 3,161,393, 12–15–64, Cl. 248—113.
Swanson, Carl A. Coil winding machine. 3,136,493, 6–9–64, Cl. 242—9.
Swanson, Carl E., to Duro-Test Corp. Fluorescent lamp. 3,121,183, 2–11–64, Cl. 313—204.
Swanson, Charles E., to Minneapolis-Honeywell Regulator Co. Insertion type control with remote setting means. 3,136,483, 6–9–64, Cl. 236—51.
Swanson, Clifford D. Plastic gravel stop and fascia. 3,132,445, 5–12–64, Cl. 50—66.
Swanson, Clifford D. Article dispenser having article withdrawing means. 3,161,320, 12–15–64, Cl. 221—255.
Swanson, Donald W., to Motorola, Inc. Method for metallizing non-conductors. 3,122,449, 2–25–64, Cl. 117—213.
Swanson, Douglas L., and C. O. Merchant, to Swanson-Erie Corp. Assembly machine. 3,143,792, 8–11–64, Cl. 29—208.
Swanson, Edward E.: *See*—
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Swanson, Edwin C., to Greenlee Bros. & Co. Pumping unit. 3,139,221, 6–30–64, Cl. 222—255.
Swanson, Ely. Agricultural spraying apparatus. 3,138,329, 6–23–64, Cl. 239—77.
Swanson, Emery C., C. K. Sherck, and M. E. Cook, to The Pillsbury Co. Collapsible disposable container and nursing unit. 3,143,429, 8–4–64, Cl. 99—171.
Swanson, Eric R., and W. E. Davis; said Swanson assor. to United States of America, Navy, and said Davis assor. to Philco Corp. System and method for obtaining medium accuracy navigation. 3,161,880, 12–15–64, Cl. 343—105.
Swanson-Erie Corp.: *See*—
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Swanson, F. V., S. G. Knight, P. R. Pueschner, R. O. Erickson, and W. O. Bechman, to Drott Mfg. Corp. Tree cutting device. 3,126,927, 3–31–64, Cl. 144—34.
Swanson, Frank B. Root cleaner deflector assembly. 3,160,904, 12–15–64, Cl. 15—104.3.

Swanson, Fred R., and C. F. Erikson, to Sundstrand Corp. Tool supporting adapter having means to coact with a transport means for orientation of the adapter with the spindle head. 3,135.980, 6–9–64, Cl. 10—129.
Swanson, Fred R., and C. F. Erikson, to Sundstrand Corp. Flanged tool adapter. 3,136,217, 6–9–64, Cl. 90—11.
Swanson, Fred R., and C. F. Erikson, to Sundstrand Corp. Tool supporting adapter. 3,136,563, 6–9–64, Cl. 279—83.
Swanson, George J., to The Bendix Corp. Electrical connector. 3,125,395, 3–17–64, Cl. 339—176.
Swanson, Gosta. Manual projector for a bowling ball. 3,149,-840, 9–22–64, Cl. 273—129.
Swanson, Gunnar E. Catch for a packing case or the like. 3,145,038, 8–18–64, Cl. 292—113.
Swanson, Herbert F., to Market Forge Co. Kettle elevating mechanism. 3,119,530, 1–28–64, Cl. 222—166.
Swanson, John L.: *See*—
Benedict, Glen E., and Swanson. 3,154,379.
Swanson, Kenneth P., to Progressive Engineering, Inc. Top roll cradle. 3,129,467, 4–21–64, Cl. 19—255.
Swanson, Kenneth P., to Progressive Engineering, Inc. Trumpet for a spinning frame. 3,133,320, 5–19–64, Cl. 19—288.
Swanson, Larry: *See*—
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Swanson, Norman: *See*—
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Swanson, Ralph G., to E. I. du Pont de Nemours and Co. Coating compositions and metal substrates coated therewith. 3,136,653, 6–9–64, Cl. 117—75.
Swanson, Richard M., to Bell Telephone Laboratories, Inc. Information checking system utilizing odd and even digit checks. 3,135,945, 6–2–64, Cl. 340—146.1.
Swanson, Robert E., to Railway Appliance Research Ltd. Pneumatic sound reproducing devices. 3,117,552, 1–14–64, Cl. 116—142.
Swanson, Ronald R., to General Mills, Inc. Liquid-liquid extraction recovery of cobalt values using a quaternary ammonium extractant. 3,131,998, 5–5–64, Cl. 23—87.
Swanson, Ronald W., to Air Products and Chemicals, Inc. Manufacture of triethylenediamine. 3,146,236, 8–25–64, Cl. 260—268.
Swanson, Ronald W., to Air Products and Chemicals, Inc. Triethylenediamine production. 3,148,190, 9–8–64, Cl. 260—268.
Swanson, Theodore F., to Towlsaver, Inc. Method and apparatus for cutting a bearing surface in hollow cored roll of toweling. 3,157,094, 11–17–64, Cl. 90—14.
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Swanstrom, Klas A., to Penn Engineering & Mfg. Corp. Screw with cavity head. 3,127,919, 4–7–64, Cl. 151—41.73.
Swanstrom, Klas A., to Penn Engineering & Mfg. Corp. Nut having segmented locking extension. 3,142,325, 7–28–64, Cl. 151—21.
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Swardlick, Murray. Shuffleboard cue. 3,163,422, 12–29–64, Cl. 273—129.
Swarthout, Rassele E., to Challenge-Cook Bros., Inc. Tiltable transit mixer. 3,131,913, 5–5–64, Cl. 259—161.
Swarthout, Rassele E., to Challenge-Cook Bros. Sealed apparatus for drying, warming and aerating materials. 3,143-,398, 8–4–64, Cl. 34—203.
Swarts, Donald E.: *See*—
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Bryan, William L., and Swarts. 3,153,684.
Swarts, Richard E., to Sperry Rand Corp. Method of fabricating intricate internal shapes. 3,155,477, 11–3–64, Cl. 65—23.
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Swartz, John G. Heater compartment for lunch box. 3,154,-668, 10–27–64, Cl. 219—43.
Swartz, John H., to Linear Inc. Apparatus for continuous and automatic molding of separate articles. 3,121,917, 2–25–64, Cl. 18—20.
Swartz, Paul S., to General Electric Co. Superconductive device. 3,158,793, 11–24–64, Cl. 317—158.
Swartz, Paul S., to General Electric Co. Superconductive device. 3,158,794, 11–24–64, Cl. 317—158.
Swartz, Paul S., to General Electric Co. High field superconductive device. 3,161,809, 12–15–64, Cl. 317—158.
Swartz, Paul S., and C. H. Rosner, to General Electric Co. Superconductive devices. 3,158,792, 11–24–64, Cl. 317—158.
Swartz, Richard L.: *See*—
Highsmith, William D., and Swartz. 3,128,093.
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Swartz, William E., and D. M. Stough, to Calgon Corp. Method of controlling the temperature while smoking meat. 3,139,349, 6–30–64, Cl. 99—229.
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Voyce, Donald K., and Swasey. 3,160,181.
Swasey, Samuel E., and K. R. Bagley., to Sylvania Electric Products Inc. Incandescent lamp mount. 3,156,843, 11–10–64, Cl. 313—271.
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Swatsick, Michael J. Ice chip making machine. 3,126,719, 3–31–64, Cl. 62—320.
Swatsick, Michael J. Auger type ice chip making machine. 3,139,740, 7–7–64, Cl. 62—320.
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Swearingen, Judson S., to Electronic Specialty Co. Process and apparatus for eliminating fixed gas from an absorption refrigeration system. 3,146,602, 9–1–64, Cl. 62—85.
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Sweatt, Albert E., and N. Baskevitch, to Schuly Tool and Mfg. Co. Relief valve. 3,126,909, 3–31–64, Cl. 137—471.
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Sweeney, Alexander, and R. Meyer. Detachable ladder handrail. 3,136,384. 6–9–64, Cl. 182—106.
Sweeney, David F., to Anelex Corp. Control system for high speed printers. 3,142,247, 7–28–64, Cl. 101—93.
Sweeney, Dura W., to International Business Machines Corp. Divider device for skipping a string of zeros or radix-minus-one digits. 3,145,296, 8–18–64, Cl. 235—164.
Sweeney, Edward C.: *See*—
Cross, Allen S. 3,124,124.
Sweeney, Gerald C. Portable power fish cable tool. 3,145,-972, 8–25–64, Cl. 254—134.3.
Sweeney, Harold E., to Westinghouse Electric Corp. Attenuation network automatically controlled by level of signal carrier. 3,153,189, 10–13–64, Cl. 323—66.
Sweeney, James C. Rotary index table. 3,120,134, 2–4–64, Cl. 74—823.
Sweeney, Maxwell P. Apparatus for combustion of fuels. 3,119,379, 1–28–64, Cl. 122—4.
Sweeney, Patrick M., and L. L. Eberhart, to Consolidated Kinetics Corp. Glass fiber pad construction. 3,120,381, 2–4–64, Cl. 267—1.
Sweeney, Robert, to Sweeney's Enterprises, Inc. Disposable sanitary station for pet animals. 3,154,052, 10–27–64, Cl. 119—1.
Sweeney, Theodore J., to Chicago United Products Co., Inc. Panel assembly having a trim piece attached thereto without perforation of the panel. 3,153,468, 10–20–64, Cl. 189—88.
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Sweet, Cary L. Tape splicing apparatus and method. 3,125,-632, 3–17–64, Cl. 178—5.8.
Sweet, Corlise M. Cutting wood by the forming process. 3,129,735, 4–21–64, Cl. 143—133.
Sweet, Corlise M. Tandem lathe tools that adjust the thickness of the chip by rotating. 3,145,600, 8–25–64, Cl. 82—36.
Sweet, Harold C. Line marker assembly. 3,130,440, 4–28–64, Cl. 15—503.
Sweet, Ray D., A. G. Monka, and W. Weisz, to The Singer Co. Compressible resistance pile motor controller. 3,118,123, 1–14–64, Cl. 338—108.
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Swenck, George F., and W. B. McMullin, to Reynolds Metals Co. Interlocking extrusions and means for unlocking the same. 3,142,898, 8–4–64, Cl. 29—270.
Swengel, Robert C., to AMP Inc. Spring clip terminal for printed circuit board. Re. 25,591, 6–9–64, Cl. 339—17.
Swensen, Elmer H., to Minneapolis-Honeywell Regulator Co. Gas cleaning apparatus. 3,143,403, 8–4–64, Cl. 55—156.
Swenson, Alfred G., to General Electric Co. Steam iron with self-cleaning valve assembly. 3,161,971, 12–22–64, Cl. 38—77.
Swenson, Armound R. A., and E. K. Thomson, to Continental Carbon Co. Filling spout. 3,137,328, 6–16–64, Cl. 141—315.
Swenson, Arthur W. Fishing lure. 3,137,085, 6–16–64, Cl. 43—42.36.
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Swenson, Gordon C. Heater for injection molding machines. 3,118,184, 1–21–64, Cl. 18—30.
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Swenson, Oscar J. Rotary impact tools. 3,156,309, 11–10–64, Cl. 173—93.
Swenson, Paul F., and M. T. Cooperrider, to Iron Fireman-Webster Inc. Space air conditioning system and thermostatic control therefor. 3,145,925, 8–25–64, Cl. 236—1.
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Swett, James B., to Rexall Drug and Chemical Co. Meat keeper and tray. 3,155,267, 11–3–64, Cl. 220—17.
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Swett, Leo R.: *See*—
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Swett, Leo R., and R. G. Stein, to Abbott Laboratories. N-(diethylaminoethyl)-N-propargylbenzylamines. 3,118,941, 1–21–64, Cl. 260—570.5.
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Swick, Clarence. Bumper means for scraper-loaders and the like. 3,139,290, 6–30–64, Cl. 280—481.
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Swick, George E., Jr., and R. J. May, to Aeroquip Corp. Segmented fitting. 3,117,808, 1–14–64, Cl. 285—149.
Swick, Joseph S. Vacuum molding apparatus and thermoplastic sheet working generally. 3,153,813, 10–27–64, Cl. 18—19.
Swift, Betty K. Cigarette packaging. 3,159,272, 12–1–64, Cl. 206—41.
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Swift, Elijah K., Jr., R. C. Hare, and W. Baron, to Whitin Machine Works. Spindle brakes. 3,122,875, 3–3–64, Cl. 57—88.
Swift, Eugene C., to Saginaw Industries Co. Table construction. 3,162,495, 12–22–64, Cl. 312—223.
Swift, George H., Jr., to International Business Machines Corp. Character recognizer. 3,152,318, 10–6–64, Cl. 340—146.3.
Swift, Gilbert, to Well Surveys, Inc. Geophysical prospecting method by means of nuclear radiation. 3,121,164, 2–11–64, Cl. 250—83.3.
Swift, Gilbert, to Dresser Industries, Inc. Electrical analog dip computer. 3,127,509, 3–31–64, Cl. 235—188.
Swift, Hallock F. Capacitor fault indicator including resistance voltage divider. 3,125,720, 3–17–64, Cl. 324—51.
Swift, Harvey C.: *See*—
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Swift, Harvey C., to Kelsey-Hayes Co. Internally expanding vehicle brake. 3,118,518, 1–21–64, Cl. 188—78.
Swift, Harvey C., to Kelsey-Hayes Co. Automatic brake adjusting mechanism. 3,118,519, 1–21–64, Cl. 188—79.5.
Swift, Harvey C., to Kelsey-Hayes Co. Automatic brake adjusting mechanism. 3,126,074, 3–24–64, Cl. 188—79.5.
Swift, Harvey C., to Kelsey-Hayes Co. Automatic brake adjusting mechanism. 3,128,847, 4–14–64, Cl. 188—79.5.
Swift, Harvey C., to Kelsey-Hayes Co. Automatic brake adjusting mechanism. 3,128,848, 4–14–64, Cl. 188—79.5.
Swift, Harvey C., to Kelsey-Hayes Co. Automatic brake adjusting mechanism. 3,128,849, 4–14–64, Cl. 188—79.5.
Swift, Harvey C., to Kelsey-Hayes Co. Automatic brake adjusting mechanism. 3,131,787, 5–5–64, Cl. 188—79.5.
Swift, Harvey C., to Kelsey-Hayes Co. Anchor pin and wheel cylinder assembly for brakes. 3,145,808, 8–25–64, Cl. 188—78.
Swift, Harvey C., to Kelsey-Hayes Co. Hold-down device for brake shoe. 3,152,664, 10–13–64, Cl. 188—78.
Swift, Howard R., and T. B. O'Connell, to Libbey-Owens-Ford Co. Process and apparatus for collecting dust in a heated environment. 3,123,458, 3–3–64, Cl. 65—27.
Swift, John F., to International Harvester Co. Hydromechanical power transmission means with fluid power takeoff. 3,151,456, 10–6–64, Cl. 60—53.
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Swindle, Kenneth C., to Jack Spencer. Firearm barrel with grooves and projectile with fins fitting in said grooves. 3,151,412, 10–6–64, Cl. 42—76.
Swindler, Harry M. Apparatus for cutting vegetation. 3,141,283, 7–21–64, Cl. 56—25.4.
Swinehart, Merle R., to Cutler-Hammer, Inc. Means for electrical testing of the effectiveness of closure of elctrical contacts. 3,128,426, 4–7–64, Cl. 324—28.
Swinehart, Merle R., to Cutler-Hammer, Inc. Electric switch having arcing and current carrying contacts of bridging type. 3,132,225, 5–5–64, Cl. 200—146.
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Swinnertron, John W.: *See*—
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Swinney, John J., to Bradshaw Mfg. Co., Inc. Trough support. 3,145,007, 8–18–64, Cl. 248—149.
Swinney, Louis E. Automatic stabilization system for unstable vehicles. 3,124,007, 3–10–64, Cl. 74—5.22.
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Swisher, Horton E., to Sunkist Growers, Inc. Process for producing de-waxed citrus oils. 3,155,648, 11–3–64, Cl. 260—236.6.
Swisher, Jno. H., & Son, Inc.: *See*—
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Swiss Knitting Co.: *See*—
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Switzer, George W., Jr., to Gilbert Associates, Inc. Boiler waste heat recovery process. 3,148,665, 9–15–64, Cl. 122—1.
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Swoboda, Thomas J., to E. I. du Pont de Nemours and Co. Ferromagnetic compositions and their preparation. 3,126,-345, 3–24–64, Cl. 252—62.5.
Swoboda, Thomas J., to E. I. du Pont de Nemours and Co. Magnetic antimonides and arsmides and their preparation. 3,126,347, 3–24–64, Cl. 252—62.5.
Swoboda, Thomas J., to E. I. du Pont de Nemours and Co. Ferromagnetic energy devices. 3,126,492, 3–24–64, Cl. 310—4.
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Tack, Carl E., to Amsted Industries Inc. Tread brake arrangement. 3,119,467, 1–28–64, Cl. 188—52.
Tack, Carl E., to Amsted Industries Inc. Lateral motion freight car truck. 3,141,421, 7–21–64, Cl. 105—190.
Tack, Carl E., and F. E. Bachman, to Amsted Industries Inc. Railway truck side bearing. 3,158,414, 11–24–64, Cl. 308—138.
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Tadanier, John S., and J. W. Cole, to Abbott Laboratories. 3-aminosteroids. 3,119,817, 1–28–64, Cl. 260—239.55.
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Tadewald, Albert O., to The Trane Co. Serpentined heat exchanger. 3,147,800, 9–8–64, Cl. 165—164.
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Taguchi, Satoru, A. Sakakura, and T. Yasunari, to Yawata Iron and Steel Co., Ltd. Method for producing silicon steel strips having cube-on-face orientation. 3,163,564, 12–29–64, Cl. 148—111.
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Takahashi, Shuichiro, Y. Honda, K. Ishikawa, H. Uchikoshi, and T. Kubota. Method of preparing hollow type high density ceramic nuclear fuel elements. 3,124,875, 3–17–64, Cl. 29—473.3.
Takahashi, Torizo, H. Fujimura, and Y. Hamashima, to Chugai Seiyaku Kabushiki Kaisha. N-camphoryl-amino acetamides. 3,130,227, 4–21–64, Cl. 260—557.
Takahashi, Torizo, H. Fujimura, and Y. Hamashima, to Chugai Seiyaku Kabushiki Kaisha. Alpha-lower alkyl, alpha camphorimides acetamides. 3,163,650, 12–29–64, Cl. 260—281.
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Takamizawa, Akira, Y. Hamashima, and H. Sato, to Shionogi & Co., Ltd. Pyrazolopyrimidine derivative. 3,157,655, 11–17–64, Cl. 260—256.4.
Takamizawa, Akira, and K. Hirai, to Shionogi & Co., Ltd. Thiamine derivatives. 3,158,613, 11–24–64, Cl. 260—256.5.
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Takesue, Edward, J. J. Hlavka, and J. H. Boothe, to American Cyanamid Co. Potentiation of tetracycline by phosphinic acid. 3,159,537, 12–1–64, Cl. 167—55.
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Takimoto, Hideyo H., and J. B. Rust, to Hughes Aircraft Co. Ordered organo-silicon-chelated titanium oxide copolymers and methods of making same. 3,153,000, 10–13–64, Cl. 260—2.
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Talentinow, John, and F. B. Headley, to General Electric Co. Combined electrical connector and support means for hollow electrical components. 3,132,288, 5–5–64, Cl. 317—100.
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Tallentire, Arthur G., and C. Green, to Imperial Chemical Industries Ltd. Plaster compositions. 3,153,596. 10–20–64, Cl. 106—115.
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Tanaka, Kuniyoshi, K. Mizuno, Y. Sanno, and Y. Hamuro, to Takeda Chemical Industries, Ltd. Sulfonic acid cation exchange resin purification of nucleotides. 3,157,635, 11–17–64, Cl. 260—211.5.
Tanaka, Ryoma, J. Yurimoto, H. Ryu, and Y. Shioji, to Sumitomo Chemical Co., Ltd. Method for manufacturing high purity aluminum. 3,155,493, 11–3–64, Cl. 75—68.
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Tanaka, Yukio, to Kokusai Denki Kabushiki Kaisha. Fluid powder, electric furnace. 3,136,836, 6–9–64, Cl. 13—9.
Tanaka, Yukio, to Kokusai Denki Kabushiki Kaisha. Fluid-motion powder, electric bath furnace. 3,137,781, 6–16–64, Cl. 219—50.
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Tanczyn, Harry, to Armco Steel Corp. Alloy steel and method. 3,123,469, 3–3–64, Cl. 75—128.
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Tanguy, Denis R., to Schlumberger Well Surveying Corp. Apparatus for electromagnetically investigating earth formations including means for obtaining a resistivity signal directly. 3,150,314, 9–22–64, Cl. 324—6.
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Tsujihata, Keiji, Harada, Shimizu, Fukagawa, and Tanigawa. 3,146,088.
Tanis, Edward, and H. H. Ramsey. Pull-through leader seal. 3,143,765, 8–11–64, Cl. 18—6.
Taniyama, Masakazu, and M. Hatano, to Toho Rayon Kabushiki Kaisha. Process for the continuous manufacture of high grade acrylic fibers. 3,135,812, 6–2–64, Cl. 264—182.
Tank Seal Products Co.: *See*—
Korn, Donald L. 3,131,104.
Tanke, Willard H., to Allis-Chalmers Mfg. Co. Planter. 3,161,164, 12–15–64, Cl. 111—52.
Tankus, Harry, to Crane Packing Co. Hydraulically balanced rotary mechanical seal with double sealing wedges. 3,162,-452, 12–22–64, Cl. 277—86.
Tankus, Harry, and V. E. Vorhees, to Crane Packing Co. Rotary seal with wedge sealing element. 3,152,808, 10–13–64, Cl. 277—84.
Tann Corp.: *See*—
Tann, David. 3,140,128.
Tann, David: *See*—
Edwards, Charles F. 3,129,601.
Tann, David, to Tann Corp. Self-lubricating bearing. 3,140,-128, 7–7–64, Cl. 308—36.4

Tann, David. Self-lubricating bearing. 3,140,131, 7–7–64, Cl. 308—240.
Tann, Herman: *See*—
Edwards, Charles F. 3,129,601.
Tannenbaum, Jerome, and W. S. Bartky, to International Telephone and Telegraph Corp. Apparatus for measuring small capacitance valves independent of stray capacitance. 3,135,916, 6–2–64, Cl. 324—60.
Tanner, Charles L. Seal ring means. 3,163,431, 12–29–64, Cl. 277—206.
Tanner, Charles S., Co.: *See*—
Wagner, Josef. 3,116,879.
Tanner, David: *See*—
Magat, Eugene E., and Tanner. 3,152,054.
Magel, Bernard, Matray, Palmer, and Tanner. 3,128,528.
Tanner, David, to E. I. du Pont de Nemours and Co. Composite filament. 3,117,906, 1–14–64, Cl. 161—177.
Tanner, Fred W., Jr., and J. L. Sardinas, to Chas. Pfizer & Co., Inc. Microbiological oxidation of kojic acid to comenic acid. 3,140,239, 7–7–64, Cl. 195—30.
Tanner, Loyd H., and T. H. Device for collecting cutting samples from well drilling operations. 3,135,685, 6–2–64, Cl. 209—269.
Tanner, Maurice C., and L. Lowes, to United Kingdom Atomic Energy Authority. Liquid-liquid contacting apparatus. 3,134,650, 5–26–64, Cl. 23—267.
Tanner, Ralph A. Device for removing sickle bar sections. 3,124,288, 3–10–64, Cl. 225—103.
Tanner, Ted H.: *See*—
Tanner, Loyd H., and T. H. 3,135,685.
Tanner, Troy B. Applicator. 3,162,885, 12–29–64, Cl. 15—541.
Tanquary, Albert C., to Minnesota Mining and Mfg. Co. Tobacco smoke filter. 3,119,396, 1–28–64, Cl. 131—10.
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Tansey, John P. 3,147,831.
Tansey, Jerome J., to American Urethane, Inc. Hot wire contour cutting. 3,117,211, 1–7–64, Cl. 219—19.
Tansey, John P., to The Tansey Co. Door hinge structure. 3,147,831, 9–8–64, Cl. 189—46.
Tansey, Robert P., to Strong Cobb Arner Inc. Sustained release therapeutic tablet compositions comprising organic solvent-gelled gums. 3,133,863, 5–19–64, Cl. 167—82.
Tansey, Robert P., to Strong Cobb Arner Inc. Anhydrous thixotropic gel sustained release therapeutic compositions and method of preparation. 3,136,695, 6–9–64, Cl. 167—82.
Tantlinger, Keith W., to Fruehauf Corp. Spreader bar for containers. 3,148,909, 9–15–64, Cl. 294—81.
Tantlinger, Keith W., and R. G. Flagan, to Fruehauf Corp. Shipping apparatus. 3,132,883, 5–12–64, Cl. 287—108.
Tantlinger, Keith W., and R. G. Flagan, to Fruehauf Corp. Alignment ramp. 3,144,141, 8–11–64, Cl. 214—10.5.
Tantlinger, Keith W., R. G. Flagan, and R. T. Fujioka, to Fruehauf Corp. Container handling apparatus. 3,151,904, 10–6–64, Cl. 294—67.
Tantlinger, Keith W., and R. T. Fujioka, to Fruehauf Corp. Automatic container tie. 3,161,316, 12–15–64, Cl. 220—23.4.
Tanuma, Kazuo. Hard-boiled egg cutting tool. 3,116,770, 1–7–64, Cl. 146—2.
Tanuma, Kazuo. Tool for opening holes in can containers. 3,153,851, 10–27–64, Cl. 30—16.
Tapeshkin, Vasily T.: *See*—
Balitsky, Nicolay V., Volodin, Zmijevsky, Savchenko, Selezniova, Nepomniashtshy, and Tapeshkin. 3,146,-475.
Tapeswitch Corp. of America: *See*—
Koenig, Robert H. 3,118,984.
Taplin, John F. Rolling seal diaphragms. 3,137,215, 6–16–64, Cl. 92—103.
Tapp, Ernest T. J., and D. Walker, to Walkers and County Cars Ltd. Apparatus for compacting material for loading on to vehicles. 3,135,400, 6–2–64, Cl. 214—41.
Tapp, Ernest T. J., and D. Walker, to Walkers and County Car Ltd. Vehicles for transporting refuse. 3,137,400, 6–16–64, Cl. 214—82.
Tapp, Ernest T. J., and J. Davey, to County Commercial Cars Ltd. Driving transmissions for the rear and front wheels of motor vehicles. 3,145,798, 8–25–64, Cl. 180—44.
Tapp, James S.: *See*—
Holsten, John R., and Tapp. 3,160,600.
Tappan Co., The: *See*—
Constance, Frederick G., and Perl. 3,160,164.
Divelbiss, Dalton L. 3,120,224.
Hartson, Oliver E. 3,123,064.
Mayer, Charles M., Dalenberg, and Constance. 3,130,719.
Perl, Richard L. 3,117,582.
Perl, Richard L. 3,140,388.
Perl, Richard L., and Millikin. 3,152,723.
Pollock, Earl S. 3,144,863.
Pollock, Earl S., and Divelbiss. 3,156,232.
Tappan, Peter W.: *See*—
Tatter, Ernest O. P., and Tappan. 3,143,352.
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Zurit, David, and Parisi. 3,144,237.
Tapscott, Carl, Jr., and V. L. Hayes, Jr., to Phillips Petroleum Co. Method of sealing leaky well tubing. 3,154,144, 10–27–64, Cl. 166—14.
Tarantur, Sam, to Admiral Corp. Television tuning indicator. 3,129,283, 4–14–64, Cl. 178—5.4.
Tarantur, Sam, to Admiral Corp. Transistor reflex amplifier with direct current amplification. 3,138,756, 6–23–64, Cl. 325—319.
Tarasevich, Michael, and M. A. Telian, to American Bosch Arma Corp. Liquid metal floated gyroscope. 3,127,776, 4–7–64, Cl. 74—5.
Taraud, Bernard M., to Societe d'Electronique et d'Automatisme. Printed circuit manufacturing process. 3,138,503, 6–23–64, Cl. 156—3.
Tarbox, Brook J.: *See*—
Spongberg, Gordon, Tarbox, and Sittnick. 3,145,765.
Tarbuck, Robert R., to Burroughs Corp. Pneumatic sheet separator. 3,158,367, 11–24–64, Cl. 271—26.
Tarbutton, James S. Telemetering system. 3,156,910, 11–10–64, Cl. 340—345.
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Fogagnolo, Mario, Rinaudo, Bondi, Soldano, and Tardani. 3,132,143.
Tardoskegyi, Louis V., to Electrovert Mfg. Co., Ltd. Ultrasonic processing apparatus. 3,123,084, 3–3–64, Cl. 134—182.
Tardrew, Philip L., and M. A. Nyman, to Abbott Laboratories. Hypocholesterolemic agent M-850 and method of preparation. 3,127,315, 3–31–64, Cl. 167—65.
Tarjan, Endre, and A. Kolar, to Brown, Boveri & Cie, Aktiengesellschaft. Protective system for synchronous electrical machines. 3,127,541, 3–31–64, Cl. 317—13.
Tarkan, Stuart E., and E. G. Wojtowicz, to Chromalloy Corp. Production of sintered slender shapes. 3,145,100, 8–18–64, Cl. 75—200.
Tarkington, Terry W., and C. D. Whitt, to Monsanto Co. Stabilized acrylonitrile polymer compositions. 3,156,742, 11–10–64, Cl. 260—895.
Tarpey, Constance M., to John H. Breck, Inc. Maleic anhydride and ethylene oxide copolymers in hair preparations. 3,130,127, 4–21–64, Cl. 167—87.1.
Tarpinian, Haig D. Electro-mechanical value-averaging instrument. 3,158,737, 11–24–64, Cl. 235—179.
Tarr, Charles O.: *See*—
Smith, Raymond, and Tarr. 3,129,120.
Tarrant, Paul, to Dow Corning Corp. 1,1-bis(trifluoromethyl) ethyl silanes and siloxanes. 3,127,433, 3–31–64, Cl. 260—448.2.
Tarrant, Raymond G.: *See*—
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Tarrington Co., The: *See*—
Cowles, John H. 3,133,770.
Tarsey, Jason I. Parking meter control unit. 3,148,013, 9–8–64, Cl. 346—20.
Tartaglia, Richard A.: *See*—
Remington, Frederic, and Tartaglia. 3,124,273.
Tarter, Carl M. Multiple crystal growing head. 3,144,308, 8–11–64, Cl. 23—273.
Tarter, Ralph E., to General Motors Corp. Internal combustion engine ignition system and tachometer. 3,144,012, 8–11–64, Cl. 123—148.
Tartter, Arnold: *See*—
Eisele, Julius, Federkiel, Schuster, Gehm, Tartter, Graser, Rohland, and Stoeckl. 3,154,533.
Eisele, Julius, Federkiel, Schuster, Gehm, Tartter, Graser, Rohland, and Stoeckl. 3,154,567.
Hensel Hans R., Baumann, Tartter, and Weissauer. 3,126,367.
Hensel, Hans R., Baumann, Tartter, and Weissauer. 3,126,369.
Tartter, Arnold, H. R. Hensel, and H. Baumann, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Pyridazonylphthalocyanines. 3,126,377, 3–24–64, Cl. 260—242.
Tarukawa, Tomiji. Apparatus for the automatic mixing and accumulation of several kinds of stock-materials. 3,133,-726, 5–19–64, Cl. 259—3.
Tarwid, Wesley, to American Can Co. Plasticized vinyl polymer organosol composition. 3,153,638, 10–20–64, Cl. 260—32.8.
Tarzian, George M., to Automation Devices, Inc. Multi-station processing machine. 3,131,455, 5–5–64, Cl. 29—38.
Tashjian, Albert L., to Maxson Electronics Corp. Side-by-side slotted waveguides coupled to an angularly disposed feed guide. 3,137,856, 6–16–64, Cl. 343—771.
Tashlick, Irving, and H. M. Culbertson, to Monsanto Co. Process for producing cross-linked sulfone polymers and product thereof. 3,153,021, 10–13–64, Cl. 260—79.3.
Task Corp.: *See*—
Ward, Elmer F. 3,158,102.
Tasker, Homer G., and A. W. Meyer, to Tasker Instruments Corp. Simultaneous equation solver. 3,143,646, 8–4–64, Cl. 235—180.
Tasker Instruments Corp.: *See*—
Daspit, John I. 3,140,391.
Tasker, Homer G., and Meyer. 3,143,646.
Thomas, Donald C., and Horth. 3,129,325.
Tasopé Ltd.: *See*—
Martz, Charles S., and Hillhouse. 3,136,323.
Martz, Charles S., and Hillhouse. 3,136,671.
Tassara, Luigi. Apparatus for vacuum metallizing hollow ceramic rods. 3,123,499, 3–3–64, Cl. 118—49.
Tassell Hardware Co.: *See*—
Tassell, Leslie E. 3,143,981.
Tassell, Leslie E. 3,160,453.
Tassell, Leslie E., to Tassell Hardware Co. Demountable partition. 3,143,981, 8–11–64, Cl. 108—108.

Tassell, Leslie E., to Tassell Hardware Co. Rotating door and shelf for corner cabinets and the like. 3,160,453, 12–8–64, Cl. 312—238.
Tassie, Douglas P., and L. K. Wetzel, to United States of America, Army. Feed belt booster with demand control. 3,126,790, 3–31–64, Cl. 89—33.
Tassie, Harry B. Vending machine. 3,162,494, 12–22–64, Cl. 312—35.
Tassler, Milford C., to E. I. du Pont de Nemours and Co. Stretching of thermoplastic film to improve thickness uniformity. 3,161,711, 12–15–64, Cl. 264—289.
Tata, Raymond V., to Leesona Corp. Feed rolls. 3,119,572, 1–28–64, Cl. 242—47.08.
Tate, Bryce E., and R. L. Miller, to Chas. Pfizer & Co., Inc. Preparation of gamma-pyrones. 3,130,204, 4–21–64, Cl. 260—345.9.
Tate, Bryce E., and R. P. Allingham, to Chas. Pfizer & Co., Inc. Preparation of gamma-pyrones. 3,159–652, 12–1–64, Cl. 260—345.9.
Tate, Cilton W.: *See*—
Congiundi, Nicholas R., and Tate. 3,160,610.
Tate, Francis E. G.: *See*—
Wild, James H., and Tate. 3,144,452.
Tate, Joseph B., Jr., and L. W. Erath. Depth charge firing control system. 3,162,119, 12–22–64, Cl. 102—18.
Tate, Kenneth L., and H. R. Jaquith, to Taylor Instrument Companies. Force balance measuring instrument. 3,160,-007, 12–8–64, Cl. 73—205.
Tate, Lawrence A.: *See*—
Newman, Ernest G., Chang, and Tate. 3,150,358.
Tate, Lawrence A., to International Business Machines Corp. Stored address memory. Re. 25,599, 6–16–64, Cl. 340—172.5.
Tate, Malcolm C., to The A. H. Emery Co. Weighing apparatus. 3,145,795, 8–25–64, Cl. 177—208.
Tate, Willard R., and R. E. Hendrickson, to Hughes Aircraft Co. Electric potentiometer. 3,148,350, 9–8–64, Cl. 338—143.
Tateishi, Arthur K. Portable stereophonic record player. 3,135,837, 6–2–64, Cl. 179—100.4.
Tatel, Howard E., and L. S. Skaggs, to United States of America, Navy. Proximity fuze. 3,116,691, 1–7–64, Cl. 102—70.2.
Tatibana, Hideo. Apparatus for filling bottles with metered quantities of liquid. 3,116,853, 1–7–64, Cl. 222—68.
Tatibana, Hideo. Apparatus for automatically sealing ampules. 3,124,445, 3–10–64, Cl. 65—270.
Tatibana, Hideo, Bottle filling apparatus. 3,146,807, 9–1–64, Cl. 141—230.
Tatra, narodni podnik: *See*—
Bottger, Josef, and Klos. 3,117,565.
Tatter, Ernest O. P., to Warwick Electronics Inc. Record changer. 3,163,427, 12–29–64, Cl. 274—10.
Tatter, Ernest O. P., and P. W. Tappan, to Warwick Mfg. Corp. Portable sound translating device. 3,143,352, 8–4–64, Cl. 274—9.
Tattle, William I., to Canadian General Electric Co., Ltd. Method for inserting tubular linings or draw-strings into conduits. 3,119,599, 1–28–64, Cl. 254—134.4.
Tatum, David. Elastic cutting element for a lawn mower. 3,133,398, 5–19–64, Cl. 56—25.4.
Tatum, David, and M. S. Maltenfort, to Ametek Inc. Pressure responsive instrument. 3,129,589, 4–21–64, Cl. 73—398.
Tatz, Abraham, and F. H. Battle, Jr., to Cutler-Hammer, Inc. Aircraft landing system. 3,157,877, 11–17–64, Cl. 343—108.
Taub, David: *See*—
Wendler, Norman L., and Taub. 3,142,674.
Wendler, Norman L., and Taub. 3,142,690.
Wendler, Norman L., Taub, and Hoffsommer. 3,136,760.
Taub, David, N. L. Wendler, and H. L. Slates, to Merck & Co., Inc. 3α-lower alkanoyloxy-16-lower alkyl-15α-bromo-16-pregnene-11,20-dione and process therefor. 3,136,791, 6–9–64, Cl. 260—397.45.
Taub, William, to Calenda-Stiftung, Institut fur Wissenschaftliche und technische Forschung Azetidine derivatives. 3,119,813, 1–28–64, Cl. 260—239.
Taube, Carl: *See*—
Böckmann, Klaus, and Taube. 3,141,728.
Taube, Carl, E. Messmer, and K.-H. Freytag, to Farbenfabriken Bayer Aktiengesellschaft. Metallisable trisazo-dyestuffs. 3,135,733, 6–2–64, Cl. 260—157.
Taubenblat, Pierre P.: *See*—
Sunday, Elmer G., and Taubenblat. 3,123,465.
Taubenblat, Pierre W.: *See*—
Saarivirta, Matti J., and Taubenblat. 3,146,098.
Tauber, Arthur: *See*—
Kohn, Jack A., Savage, and Tauber. 3,162,603.
Tauber, Arthur, and R. O. Savage, Jr., to United States of America, Army. Method of growing single crystals. 3,149,-910, 9–22–64, Cl. 23—50.
Tauber, Francis W., and R. N. Olson, to Union Carbide Corp. Rapid processing of comminuted meat emulsions. 3,121,-638, 2–18–64, Cl. 99—109.
Tauber, Francis W., and R. N. Olson, to Union Carbide Corp. Rapid processing of frankfurters. 3,125,017, 3–17–64, Cl. 99—443.
Taubes, Ernest P., to Picker X-Ray Corp., Waite Mfg. Division, Inc., and Ideax Corp. Photographic camera. 3,125,-940, 3–24–64, Cl. 95—34.
Taubman, Julius P., to Fallout Assemblies Corp. Parachute discharged from multistaged projectile. 3,124,899, 3–17–64, Cl. 46—86.
Taul, Horst, and E. Sommer, to Vereinigte Glanzstoff-Fabriken AG. Optical brightening. 3,137,655, 6–16–64, Cl. 252—301.2.
Taulli, Thomas A., to Monsanto Chemical Co. Novel silica aerogels and processes for preparing same. 3,131,072, 4–28–64, Cl. 106—306.
Taulli, Thomas A., to Monsanto Chemical Co. Thickened compositions. 3,131,148, 4–28–64, Cl. 252—28.
Tauschek, Max J., and R. E. Cummings, to Thompson Ramo Wooldridge Inc. Method and apparatus for minimizing combustible gas contents of engine exhaust gases. 3,147,-588, 9–8–64, Cl. 60—30.
Tauscher, Edward F., to Allied Products Corp. Threaded fastener and retained washer. 3,135,308, 6–2–64, Cl. 151—37.
Tauscher, Henry. Rotary power device. 3,136,304, 6–9–64, Cl. 123—16.
Tauscher, Henry. Temperature responsive seal. 3,136,557, 6–9–64, Cl. 277—26.
Tauser, Charles H. Punching apparatus with a novel die mounting. 3,133,467, 5–19–64, Cl. 83—582.
Taushman, Joseph: *See*—
Kelk, George F., and Taushman. 3,142,762.
Tauson, Peter O., to Armco Steel Corp. Hydraulic transmissions. 3,156,095, 11–10–64, Cl. 60—54.
Taussig, Howard L. Multi-purpose container for clothing. 3,139,165, 6–30–64, Cl. 190—43.
Tautner, Erwin, and D. G. Kerker, to North American Philips Co., Ltd. Process of producing single-oriented silicon vice. 3,159,795, 12–1–64, Cl. 330—2.
Tavis, John R., to Edcliff Instrument. Variable reluctance transducer. 3,118,121, 1–14–64, Cl. 336—30.
Tavis, John R., to Edcliff Instruments, Inc. Force controlled variable reactance transducer. 3,140,450, 7–7–64, Cl. 331—40.
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Tawney, Pliny O., to United States Rubber Co. Bis-3,3,3-trinitropropyl sulfone. 3,146,270, 8–25–64, Cl. 260—607.
Tayco Developments, Inc.: *See*—
Taylor, Paul H. 3,117,397.
Taylor, Alan F., and J. T. Stockdale, to United Kingdom Atomic Energy Authority. Nuclear reactor fuel elements. 3,158,929, 12–1–64, Cl. 29—474.4.
Taylor, Alfred C., to Hunter Douglas International (Quebec) Ltd. Apparatus for punching slat assemblies. 3,161,221, 12–15–64, Cl. 153—10.
Taylor, Allen R.: *See*—
Allen, Charles L., and Taylor. 3,128,378.
Taylor, Anthony J.: *See*—
Picton, James S., and Taylor. 3,144,918.
Taylor, Anthony J., to Babcock & Wilcox Ltd. Nuclear power plant heat exchanger control. 3,151,030, 9–29–64, Cl. 176—20.
Taylor, Arthur B.: *See*—
Crouch, Lindsey B., and Taylor. 3,151,600.
Taylor, Arthur S., and W. P. Konazewski, to American Cyanamid Co. Marked rim bottle closure. 3,121,505, 2–18–64, Cl. 215—38.
Taylor, Arthur S., and I. S. Danielson, to American Cyanamid Co. Multiple disposable intracutaneous injector package. 3,123,212, 3–3–64, Cl. 206—63.4.
Taylor, Arthur S. and W. P. Konazewski, to American Cyanamid Co. Capsule forming die roll with guard rings. 3,124,840, 3–17–64, Cl. 18—21.
Taylor, Arthur S., and E. R. Sandhage, to American Cyanamid Co. Two-compartment aspirating hypodermic syringe. 3,161,195, 12–15–64, Cl. 128—220.
Taylor, Bernard M., Jr. Perspective or orthographic plotter. 3,145,474, 8–25–64, Cl. 33—18.
Taylor, Bernard M., Jr. Projection system including converting points in a three-dimensional coordinate system to two-dimensional planar projections. 3,153,224, 10–13–64, Cl. 340—172.5.
Taylor, Beverly W. Marble tube toy. 3,135,512, 6–2–64, Cl. 273—109.
Taylor, Beverly W. Kaleidoscopes. 3,160,056, 12–8–64, Cl. 88—15.
Taylor, Billy W., to Fisher Scientific Co. Method for blood gas analysis. 3,118,736, 1–21–64, Cl. 23—230.
Taylor, Billy W., and A. A. Poli, Jr., to Fisher Scientific Co. Method and apparatus for the separation and storage of fluids by chromatography. 3,141,323, 7–21–64, Cl. 73—23.
Taylor, Bruce G. Aircraft having wing with arcuate shaped trailing edge. 3,129,905, 4–21–64, Cl. 244—42.
Taylor, Carl S., to Dura Corp. Turning radius gauge. 3,161,-965, 12–22–64, Cl. 33—203.
Taylor, Cecil I., to Leslie Hartridge Ltd. Injection nozzle tester. 3,117,444, 1–14–64, Cl. 73—119.
Taylor, Cecil I., to Leslie Hartridge Ltd. Injection pump and nozzle tester. 3,119,258, 1–28–64, Cl. 73—168.
Taylor, Charles F. Vehicle. 3,145,797, 8–25–64, Cl. 180—21.
Taylor, Charlton A. Method for direct reduction of metal oxides. 3,157,488, 11–17–64, Cl. 75—34.
Taylor, Christopher G., to Service Distributors, Inc. Coin controlled metering device. 3,140,766, 7–14–64, Cl. 194—84.
Taylor, Clarence E.: *See*—
Mosher, Robert E., Taylor, and Townsend. 3,147,798.

Taylor, Clarence G., to Products Design, Inc. Lift-propulsion device for aircraft. 3,117,746, 1–14–64, Cl. 244—12.

Taylor, Clarence R.: *See*—
Henriksson, Sven F., and Taylor. 3,117,654.
Hodges, Howard T., Swing, and Taylor. 3,143,948.
Knab, Clarence S., and Taylor. 3,161,283.

Taylor, Clarence R. Staple removing device. 3,126,195, 3–24–64, Cl. 254—28.

Taylor, Clyde E., A. L. Hunt, and J. E. Omohundro, to United States of America, Atomic Energy Commission. Process and device for cryogenic adsorption pumping. 3,144,200, 8–11–64, Cl. 230—69.

Taylor-Creager Music Corp.: *See*—
Taylor, William B. 3,130,624.

Taylor, Daniel D., and C. C. Brawner, to Beckman Instruments, Inc. Electrical detonator. 3,155,553, 11–3–64, Cl. 149—21.

Taylor, David L. Water flow indicator. 3,161,175, 12–15–64, Cl. 116—118.

Taylor, Donald J.: *See*—
Pellegrino, Frank G., Taylor, and Berardino. 3,147,180.

Taylor, Donald R., Jr., to Philco Corp. Circuit for discriminating between signal components. 3,122,608, 2–25–64, Cl. 178—7.3.

Taylor, Donald R., Jr., to Philco Corp. Multi-function tube circuits for electrical signal processing. 3,146,303. 8–25–64, Cl. 178—5.8.

Taylor, Donald R., Jr., to Philco Corp. Multi-function system for television receivers. 3,146,304, 8–25–64, Cl. 178—5.8.

Taylor, Douglas E., and W. F. Mitchell, to Dictaphone Corp. Automatic volume control system for a dictating machine and the like. 3,132,213, 5–5–64, Cl. 179—100.1.

Taylor, Douglas W., to Motorola, Inc. Television receiver cabinet with pivoted vertical monopole mounted thereon. 3,154,785, 10–27–64, Cl. 343—702.

Taylor, Edith: *See*—
Taylor, Howard F. 3,117,554.

Taylor, Edward W.: *See*—
Bostrom, Mark R., and Taylor. 3,145,304.
Momberg, James W., and Taylor. 3,141,429.

Taylor, Ernest A., Jr., to Monsanto Chemical Co. Apparatus for controlling the application of heat. 3,127,497, 3–31–64, Cl. 219—19.

Taylor, Ernest A., Jr., to Monsanto Co. Stroboscopic speed ratio indicator. 3,148,327, 9–8–64, Cl. 324—69.

Taylor, Ernest H.: *See*—
Welch, Thomas R., and Taylor. 3,147,349.

Taylor, Felix E. Method of producing smoke oil and product. 3,152,914, 10–13–64, Cl. 99—140.

Taylor, Frederick H.: *See*—
Watson, Albert R., and Taylor. 3,144,323.

Taylor, Halsey W., Co.: *See*—
Kistler, Gerald A. 3,137,141.

Taylor, Harold M., to Eli Lilly and Co. Preparation of substituted acetamides. 3,141,041, 7–14–64, Cl. 260—558.

Taylor, Harold W.: *See*—
Rankin, Alexander B. C., Buffery, Taylor, and French. 3,121,325.

Taylor, Harry E., to Becton, Dickinson and Co. Magazine unit for dispensable disks. 3,119,521, 1–28–64, Cl. 221—287.

Taylor, Harvey C., to Dorr Sales & Engineering Co., Inc. Die mounting machine having removable cylinder and method of removing and replacing its cylinder. 3,161,129, 12–15–64, Cl. 101—212.

Taylor, Herbert S., to D. W. Galbraith, trusteee for the stockholders of Agriform Chemical Co., Inc. Reactor apparatus. 3,153,578, 10–20–64, Cl. 23—260.

Taylor, Howard D., to Automatic Canteen Co. of America. Magnetic biasing means. 3,133,618, 5–19–64, Cl. 194—18.

Taylor, Howard F., to E. Taylor. Bird feeder. 3,117,554, 1–14–64, Cl. 119—52.

Taylor, Howard F., and R. G. Powell. Shell mold compositions. 3,116,522, 1–7–64, Cl. 22—129.

Taylor, Howard S., to Airguide Instrument Co. Marine speedometer. 3,126,738, 3–31–64, Cl. 73—182.

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Taylor, John E., and D. P. Ross, to Thompson Ramo Wooldridge Inc. Spike control for jet engines. 3,131,534, 5–5–64, Cl. 60—35.6.

Taylor, John K., and S. W. Smith, to United States of America, Commerce. Coulometric titration coulometer. 3,131,348, 4–28–64, Cl. 324—94.

Taylor, Joseph W., B. A. Abercrombie, and V. B. Scott, to U.S. Industries, Inc. Sequentially operable valves. 3,143,143, 8–4–64, Cl. 137—629.

Taylor, Keith M., and G. L. Wofford, to Monsanto Co. Preparation of trichloroethanes. 3,138,643, 6–23–64, Cl. 260—658.

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Taylor, Lloyd F., to Scovill Mfg. Co. Electric irons. 3,129,523, 4–21–64, Cl. 38—78.

Taylor, Lockhart, and D. F. Walker, to Ferranti, Ltd. Delay lines. 3,127,665, 4–7–64, Cl. 29—155.5.

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Taylor, Maurice K., to Ferranti Ltd. Magnetically operated sign. 3,140,553, 7–14–64, Cl. 40—28.

Taylor, Owen L., to Westinghouse Electric Corp. Wiring device and securing means therefor. 3,125,629, 3–17–64, Cl. 174—53.

Taylor, Paul H., to Tayco Developments, Inc. Honing apparatus and workholder. 3,117,397, 1–14–64, Cl. 51—48.

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Taylor, Robert L., and F. Zuschek, to Diamond Laboratories, Inc. Diagnostic test for hog cholera. 3,124,511, 3–10–64, Cl. 167—84.5.

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Taylor, Thomas D., and F. W. Hopkins. Apparatus for preventing freeze-up of refrigerator doors. 3,135,100, 6–2–64, Cl. 62—275.

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Taylor, William E., to American Can Co. Container. 3,140,808, 7–14–64, Cl. 229—4.5.

Taylor, William E., to American Can Co. Fluid-tight container body. 3,162,347, 12–22–64, Cl. 229—4.5.

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Thomas, André. Method and apparatus for biological sterilization and related processes. 3,117,832, 1–14–64, Cl. 21—58.
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Thomas, Boyd F., to Young Spring & Wire Corp. Method of making honeycomb core. 3,123,905, 3–10–64, Cl. 29—429.
Thomas, Boyd F., to Utility Metal Products Division of Young Spring and Wire Corp. Method of making honeycomb structure. 3,123,907, 3–10–64, Cl. 29—455.
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Thomas, Donald C., and T. C. Horth, to Tasker Instruments Corp. Equation solver. 3,129,325, 4–14–64, Cl. 235—180.
Thomas, Edmund P., to The White Motor Co. Compressor valve. 3,143,133, 8–4–64, Cl. 137—454.4.
Thomas, Edward C., to Great Lakes Carbon Corp. Graphite joints of highly uniform electrical resistance. 3,161,580, 12–15–64, Cl. 204—288.
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Thomas, Eugene P., to Westinghouse Electric Corp. Movable X-ray tube support apparatus. 3,121,793, 2–18–64, Cl. 250—91.
Thomas, Eugene P., and H. E. Koerner, to Westinghouse Electric Corp. Fully counterbalanced ceiling-mounted telescopic column for X-ray tube support. 3,118,066, 1–14–64, Cl. 250—91.

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Thomas, Frank S., Jr. Lint removal roller with renewable surface adhesive roll. 3,148,398, 9–15–64, Cl. 15—104.

Thomas, Gareth. Process for improving stress-corrosion resistance of age-hardenable alloys. 3,133,839, 5–19–64, Cl. 148—12.7.

Thomas, George A., 33⅓% to J. R. Hatch, 33⅓% to D. Craven, and ⅓ to Republic National Bank of Dallas. Device for use in pressurizing well tubing and the like and for releasing such pressure. 3,141,506, 7–21–64, Cl. 166—226.

Thomas, George A., 33⅓ each to J. R. Hatch, D. Craven, and Republic National Bank of Dallas. Apparatus for actuating sleeve valves and the like in wells. 3,147,809, 9–8–64, Cl. 166—98.

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Thomas, Glen H., T. Ongaro, and E. R. Lucka, to International Research & Development Corp. Plane resolvers. 3,143,888, 8–11–64, Cl. 73—462.

Thomas, Gordon H., and J. Fried, to Olin Mathieson Chemical Corp. 12α-lower alkyl steroids and their method of preparation. 3,143,559, 8–4–64, Cl. 260—397.45.

Thomas, Gordon H., and J. Fried, to Olin Mathieson Chemical Corp. 9-halo-12-alkyl-11-oxygenated progesterones. 3,151,135, 9–29–64, Cl. 260—397.45.

Thomas, Harold A., to General Dynamics Corp. Radiation detection system comprising a pulse integrator. 3,157,789, 11–17–64, Cl. 250—83.6.

Thomas, Harold A., and C. E. Clifford, to General Dynamics Corp. Rod drive system for use with negative temperature coefficient reactor. 3,162,579, 12–22–64, Cl. 176—36.

Thomas, Harrison N., to United States of America, National Aeronautics and Space Administration. Electronic motor control system. 3,147,422, 9–1–64, Cl. 318—271.

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Osborne, Fred H., and Thomas. 3,127,179.

Thomas, Howard M., H. E. W. Bode, and J. R. Brand, to The Wurlitzer Co. Electronic musical instrument switch means. 3,155,760, 11–3–64, Cl. 84—1.01.

Thomas, Howard P., to T-A Mfg. Corp. Camera head. 3,163,387, 12–29–64, Cl. 248—183.

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Thomas, James E., ½ to New England Electrotype Co. and ½ to Clyde H. Thomas, Trust. Flexible electrotype printing plate and method of manufacture. 3,124,068, 3–0–64, Cl. 101—401.1.

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Thomas, Jim B. Handle structure for pressure-regulator and gauge for gas cylinders. 3,139,902, 7–7–64, Cl. 137—557.

Thomas, John P., and H. M. Cooke, to Stratoflex, Inc. Lip seal case fitting. 3,140,106, 7–7–64, Cl. 285—149.

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Thomas, John R., and L. de Vries, to California Research Corp. Lubricant composition. 3,119,776, 1–28–64, Cl. 252—51.5.

Thomas, John V. Float operated device. 3,157,196, 11–17–64, Cl. 137—434.

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Thomas, Ralph H., to Bristol-Myers Co. Roller dispenser. 3,134,131, 5–26–64, Cl. 15—571.

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Thomas, Richard O., J. V. Duffy, and W. D. Stewart, to Atlantic Research Corp. Polyamide based solid propellants. 3,162,559, 12–22–64, Cl. 149—19.

Thomas, Robert M., to Olin Mathieson Chemical Corp. Process for the simultaneous preparation of 2-bromopyridine and 2-chloropyridine. 3,153,045, 10–13–64, Cl. 260—290.

Thomas, Robert M., and M. C. Blaich, to Olin Mathieson Chemical Corp. Process for the preparation of tolylene diisocyanates. 3,119,856, 1–28–64, Cl. 260—453.

Thomas, Robert S. Protective rifle sight covering. 3,131,477, 5–5–64, Cl. 33—50.

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Thomas, Samuel B., to Shell Oil Co. Hydrocarbon isomerization process. 3,152,197, 10–6–64, Cl. 260—683.75.

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Thomas, Terry, and R. D. Dafrico, to United States of America, Navy. Focal plane shutter mechanism. 3,148,606, 9–15–64, Cl. 95—57.

Thomas, Thomas G., to General Motors Corp. Method of fusing metal articles. 3,133,178, 5–12–64, Cl. 219—9.5.

Thomas, Thomas R., to Auto Research Corp. Lubrication. 3,140,664, 7–14–64, Cl. 103—47.

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Thomas, Valerie C.: *See*—
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Thomas, Wilbur E. Collator mechanism. 3,122,363, 2–25–64, Cl. 270—58.

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Thomas, Wilford H., to Ethyl Corp. Production of sodium. 3,119,756, 1–28–64, Cl. 204—68.

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Thomas, Wilford H., and S. E. Cook, to Ethyl Corp. Stable lead alkyl compositions and a method for preparing the same. 3,133,100, 5–12–64, Cl. 260—437.

Thomas, Wilford H., and S. E. Cook, to Ethyl Corp. Stable lead alkyl compositions and a method for preparing the same. 3,133,101, 5–12–64, Cl. 260—437.

Thomas, Wilford H., and S. E. Cook, to Ethyl Corp. Stable lead alkyl compositions and a method for preparing the same. 3,133,102, 5–12–64, Cl. 260—437.

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Thomas, William C., to Eastman Kodak Co. Device for handling a plurality of informational mediums. 3,157,425, 11–17–64, Cl. 294—87.

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Thomasma, John C. and C. W., to Sanitor Mfg. Co. Paper sheet forwarding apparatus. 3,133,672, 5–19–64, Cl. 221—26.

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Thomason, Harry E. Solar heat collector. 3,145,707, 8–25–64, Cl. 126—271.

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Thommen, Hans, and R. Reimann, to Brown, Boveri & Cie, Aktiengesellschaft. Compressed air actuated electric switch. 3,133,166, 5–12–64, Cl. 200—148.
Thommes, Glen A., to E. I. du Pont de Nemours and Co. Process for conditioning photopolymerizable elements. 3,144,-331, 8–11–64, Cl. 96—27.
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Thompson, Elmer G. Apparatus for pouring ingots. 3,158,-911, 12–1–64, Cl. 22—139.
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Thompson, Francis T., to United States of America, Navy. Target acquisition time reduction circuit for tracking radar. 3,158,860, 11–24–64, Cl. 343—7.3.
Thompson, Frank S., to T. C. Thompson & Son Ltd. Interrupter for rotary printing machines. 3,163,110, 12–29–64, Cl. 101—247.
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Thompson, George W., to Continental Can Co., Inc. Apparatus and method for applying side seam sealing compound to can body blanks. 3,155,535, 11–3–64, Cl. 117—102.
Thompson, Gordon B., and D. G. Vice, to Northern Electric Co., Ltd. Variable gain amplifiers. 3,119,970, 1–28–64, Cl. 330—123.
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Thompson, John E. Process for producing prime steam lard. 3,142,576, 7–28–64, Cl. 99—118.
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Thompson, Benny L. 3,129,013.
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Thompson, Lionel D., and E. A. Tsakiris, to Curtiss-Wright Corp. Torsionally resilient drive connection. 3,159,987, 12–8–64, Cl. 64—27.
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Thompson, Millard V. Apparatus for cleaning motion picture film and the like. 3,157,900, 11–24–64, Cl. 15—100.
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Thompson, Quentin E., to Monsanto Co. Ozonization and reduction of unsaturated organic compounds. 3,145,232, 8–18–64, Cl. 260—586.
Thompson, Ralph. Universal joint assembly. 3,122,901, 3–3–64, Cl. 64—2.
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Tiedemann, Herman H., to General Aniline & Film Corp. Culinary mixes containing a polyvinyl pyrrolidone. 3,153,595, 10–20–64, Cl. 99—94.

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Tiemann, Jerome J., to General Electric Co. Negative resistance semiconductor mixer with only two resonant branches. 3,139,583, 6–30–64, Cl. 325—449.

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Tiffany, Burris D., to The Upjohn Co. Automatic fraction collector. 3,124,173, 3–10–64, Cl. 141—251.

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Tigrett, John B., and J. L. Cupples, to Tigrett Industries, Inc. Expansible nursery unit. 3,162,866, 12–29–64, Cl. 5—98.

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Toby, Max E. and D. J., to Toby Enterprises. Slicing machine feed apparatus. 3,162,226, 12–22–64, Cl. 146—95.

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Todd, Hoyt H., to Electro-Optical Systems, Inc. Brazing method and composition. 3,150,446, 9–29–64, Cl. 29—475.

Todd, John A., and W. J. Dubsky, to Symington Wayne Corp. Submersible pump. 3,135,212, 6–2–64, Cl. 103—87.

Todd, Paul G., to Trygon Electronics, Inc. Voltage regulator power supply. 3,163,814, 12–29–64, Cl. 323—22.

Todd, Paul H., Jr., to Kalamazoo Spice Extraction Co. Vegetable base food coloring for oleomargarine and the like. 3,162,538, 12–22–64, Cl. 99—148.

Todd, Ramsay V.: *See*—
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Todisco, Carmine V. Speaker enclosure. 3,142,353, 7–28–64, Cl. 181—31.
Todt, Gerhard, and W. R. Bernhardt, to Aircraft Systems Corp. Automatic pneumatic tube carrier. 3,117,743, 1–14–64, Cl. 243—39.
Todt, Joachim H., to Maico Electronics, Inc. Accoustical device. 3,132,215, 5–5–64, Cl. 179—115.5.
Todt, Joachim H., to Maico Electronics, Inc. Display panel comprised of a plurality of magnetically-controlled, movable, light reflecting thin panels. 3,161,726, 12–15–64, Cl. 178—7.3.
Toedtman, John A., to Jasper Blackburn Corp. Hot line clamp. 3,121,601, 2–18–64, Cl. 339—265.
Toedtman, John A., to Jasper Blackburn Corp. Compressible electrical connector with internal deformable ribs. 3,156,764, 11–10–64, Cl. 174—94.
Toegel, Adolph, to Parsons Corp. Matched mold construction of hollow reinforced laminated plastic airfoils. 3,123,509, 3–3–64, Cl. 156—191.
Toensing, James W., to Remmele Engineering, Inc. Removable cam assembly. 3,130,600, 4–28–64, Cl. 74—568.
Toensing, James W., to Minnesota Mining and Mfg. Co. Taping apparatus. 3,159,325, 12–1–64, Cl. 226—150.
Toesca, René A. M.: *See*—
Burion, Etienne P., and Toesca. 3,162,357.
Toettcher, Fred C.: *See*—
Siegart, William R., Henry, Odell, and Toettcher. 3,125,525.
Siegart, William R., Odell, Toettcher, and Kay. 3,125,523.
Siegart, William R., Odell, Toettcher, and Kay. 3,125,524.
Tofano, Frank J., to Dun & Bradstreet, Inc. Plate cylinder for wrap-around printing plate and method of converting same from cylinder equipped to carry thicker printing plates. 3,126,825, 3–31–64, Cl. 101—415.1.
Toffin, Nicholas. Knife drive for a reciprocating mower. 3,157,018, 11–17–64, Cl. 56—296.
Tofflemire, Benjamin F. Pre-contoured dental matrix band. 3,145,472, 8–25–64, Cl. 32—63.
Tofflemire, Benjamin F. Dental instrument with matrix retainer and crimping pliers for band retaining clamp. 3,145,473, 8–25–64, Cl. 32—63.
Toffolo, Dominic S. High current signal translating circuit for use with three phase converter. 3,118,104, 1–14–64, Cl. 321—21.
Toft, John D. Process for cooking and canning sardines. 3,137,581, 6–16–64, Cl. 99—188.
Tognola, Tullio, to The Bendix Corp. Magneto-electric motion detecting transducer. 3,129,347, 4–14–64, Cl. 310—15.
Toho Rayon Kabushiki Kaisha: *See*—
Kanda, Ichiro, Nakajima, and Amiya. 3,121,765.
Sawa, Natsuo, Tsujino, Kishizoe, and Yoshida. 3,142,702.
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Tye, Joseph F., and Foss. 3,130,871.
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Bruce, William F., and Tokolics. 3,135,750.
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Bruce, William F., and Tokolics. 3,135,792.
Bruce, William F., and Tokolics. 3,135,793.
Tokumitsu, Hideo: *See*—
Nagano, Masamitsu, and Tokumitsu. 3,124,415.
Tokunaga, Schizuka, to Nihon Parkerising Kabushiki Kaisha. Method of inactivating metal surfaces. 3,140,204, 7–7–64, Cl. 148—6.2.
Tokutake, Norio, to Shionogi & Co., Ltd. 16β-lower alkylthio-1,4-dihydro-3,17β-estradiol 3-lower alkyl ether and production thereof. 3,153,064, 10–13–64, Cl. 260—397.5.
Tokuyama, Takashi: *See*—
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Tolaas, William M., to Waldorf Paper Products Co. Display folder and method of making same. 3,157,275, 11–17–64, Cl. 206—45.14.
Toland, Thomas J., to Ford Motor Co. Sealing means for a drain opening. 3,158,176, 11–24–64, Cl. 137—525.
Toland, Wayne G., to International Harvester Co. Selectively reversible and vertically adjustable hitch structure. 3,123,382, 3–3–64, Cl. 280—417.
Toland, Wayne G., and D. F. Christofferson, to International Harvester Co. Tilting dump body latch. 3,117,820, 1–14–64, Cl. 298—38.
Toland, William G., Jr., to California Research Corp. β-(o-carboxybenzylmercapto) propiontrile. 3,137,722, 6–16–64, Cl. 260—465.
Tolbert, Joseph A., to General Electric Co. Luminaire with lamp temperature control. 3,141,621, 7–21–64, Cl. 240—51.11.
Tolbert, Nathan E., to Research Corp. Method of controlling relative stem growth of plants. 3,156,554, 11–10–64, Cl. 71—2.7.
Tolbert, Nathan E., to Research Corp. Method of controlling relative stem growth. 3,156,555, 11–10–64, Cl. 71—2.7.
Toledo-Beaver Tools, Inc.: *See*—
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Toledo Scale Corp.: *See*—
Adler, Clarence E. 3,128,041.
Adler, Clarence E., and Carroll. 3,122,995.
Bell, Robert E. 3,119,326.
Bell, Robert E. 3,130,802.
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Bell, Robert E., and Loshbough. 3,147,470.
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De Lamater, Paul F. 3,123,180.
Haas, Arthur W. 3,139,095.
Haas, Arthur W. 3,141,618.
Hall, Donivan L., and Williams. 3,162,325.
Moring, Walter G., Jr., and Weihs. 3,141,516.
Nikazy, Walter A. Re. 25,665.
Robson, Frederick W. 3,141,467.
Seed, Aniese E., and Golding. 3,136,157.
Tolegian, Manuel J. Magnetic electrical coupling. 3,144,527, 8–11–64, Cl. 200—51.09.
Tolin, Ernest D., to Phillips Petroleum Co. Fractionation control. 3,158,557, 11–24–64, Cl. 202—160.
Tolin, Ernest D., and D. E. Berger, to Phillips Petroleum Co. Automatic process control method and apparatus. 3,130,187, 4–21–64, Cl. 260—94.9.
Tolin, Joe E. Vacuum cleaning tool. 3,136,986, 6–9–64, Cl. 15—375.
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Toll, Richard F. Bulk roof stock recoiler. 3,132,820, 5–12–64, Cl. 242—67.1.
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Tolleson, Robert E. Continuous strip photo apparatus. 3,128,686, 4–14–64, Cl. 95—31.
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Tolman, Harold J. Stripper for coaxial cables. 3,161,088, 12–15–64, Cl. 81—9.5.
Tolson, Charles D.: *See*—
Kirkconnell, Thomas W., and Tolson. 3,146,663.
Tolson, Charles G., to American Air Filter Co., Inc. Air heaters. 3,145,978, 8–25–64, Cl. 263—19.
Toma, Daniel N., to General Electric Co. Washing machine with improved tub cover. 3,121,317, 2–18–64, Cl. 68—23.
Tomaino, Paul B., to Grace, W. R., & Co. Rewettable battery separator. 3,154,436, 10–27–64, Cl. 136—146.
Tomaiuolo, Theodore J. Combination dustpan-waste receptacle cover. 3,156,941, 11–17–64, Cl. 15—257.1.
Toman, James T., ½ to D. H. Lipsey. Fluid actuated reciprocating mechanism and controls therefor. 3,148,593, 9–15–64, Cl. 91—331.
Toman, James T., ½ to D. H. Lipsey. Fluid actuated reciprocating mechanism and controls therefor. 3,162,094, 12–22–64, Cl. 91—335.
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Tomarkin, Leandro W., to American Machine & Foundry Co. Synethetic bowling pins. 3,147,974, 9–8–64, Cl. 273—82.
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Tomasetti, Amelia. Toilet lid cover. 3,118,149, 1–21–64, Cl. 4—242.
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Tomaszewski, Thaddeus W., and H. Brown, to The Udylite Corp. Electrodeposition of fine-grained lustrous nickel. 3,152,971, 10–13–64, Cl. 204—41.
Tomaszewski, Thaddeus W., and H. Brown, to The Udylite Corp. Electrodeposition of lustrous nickel. 3,152,973, 10–13–64, Cl. 204—41.
Tomatis, Charlotte, to Societe dite: S.A.F.A.S. Societe Anomyme de Fabrication d'Appareils Scientifiques. Indicator means for spectrometers. 3,152,208, 10–6–64, Cl. 88—14.
Tomberlin, Bill M., to Petro-Electronics Corp. Apparatus for the application of electrical energy to subsurface formations. 3,133,592, 5–19–64, Cl. 166—60.
Tomchak, Joseph A. Tire treating apparatus. 3,121,437, 2–18–64, Cl. 134—123.
Tomcufcik, Andrew S.: *See*—
Seeger, Doris R., and Tomcufcik. 3,134,784.

Tomcufcik, Andrew S., S. D. Willson, and A. W. Vogel, to American Cyanamid Co. N-(3-halopropionamidomethyl) acrylamides. 3,134,810, 5–26–64, Cl. 260—561.
Tomek, Arthur R., and R. J. Haskell, to Sperry Rand Corp. Floating mark data transfer system. 3,118,135, 1–14–64, Cl. 340—174.1.
Tomek, Reinhold E., to International Business Machines Corp. Coupling means for control systems. 3,135,903, 6–2–64, Cl. 318—31.
Tomes, Adam E., to St. Luke's Hospital Research Foundation, Inc. Synchronized recording device. 3,163,486, 12–29–64, Cl. 346—33.
Tomes, Sidney R., to Powertron Corp. Magnetostrictive sensing devices. 3,139,544, 6–30–64, Cl. 310—26.
Tomic, Ernst A., to E. I. du Pont de Nemours and Co. Process for preparing caprolactam. 3,153,037, 10–13–64, Cl. 260—239.3.
Tomioka, Tatsuo: *See*—
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Tomkins, Alan G., to The British Oxygen Co. Ltd. Fusion welding. 3,137,936, 6–23–64, Cl. 29—475.
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Tomkinson, John G., to Minneapolis-Honeywell Regulator Co. Photographic flash tube and reflector. 3,127,113, 3–31–64, Cl. 240—1.3.
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Hungerford, Philip C., Jr., and Tomko. 3,128,864.
Sajovec, Frank M., Jr., and Tomko. 3,153,352.
Tomko, Donald R., to Curtiss-Wright Corp. Spring clutch mechanisms. 3,128,863, 4–14–64, Cl. 192—81.
Tomlinson, Arthur R., to FMC Corp. Method and apparatus for spinning artificial filaments. 3,130,448, 4–28–64, Cl. 18—8.
Tomlinson, Barnard E. Frozen material shaving and mixing apparatus. 3,154,123, 10–27–64, Cl. 146—68.
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Tomlinson, Earl E., L. J. and M. L. Blade mounting means for a double sickle mower. 3,121,303, 2–18–64, Cl. 56—297.
Tomlinson, George H., II: *See*—
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Tomlinson, Joseph R., to United States of America, Army. Encapsulation of electronic circuits. 3,153,694, 10–20–64, Cl. 174—52.
Tomlinson, Kenneth D. Freight car construction. 3,159,112, 12–1–64, Cl. 105—367.
Tomlinson, Lila J.: *See*—
Tomlinson,Earl E., L. J., and M. L. 3,121,303.
Tomlinson, Marques L.: *See*—
Tomlinson, Earl E., L. J., and M. L. 3,121,303.
Tomlinson, Richard W., to Imperial Chemical Industries Ltd. Purification of phthalic anhydride. 3,155,688, 11–3–64, Cl. 260—346.7.
Tomono, Masami, T. Takagi, T. Tokuyama, and E. Yamada to Kabushiki Kaisha Hitachi Seisakusho. Method of producing PN junctions. 3,154,445, 10–27–64, Cl. 148—179.
Tomono, Rihei, to Okuno Chemical Industry Co. Chromate process. 3,159,509, 12–1–64, Cl. 148—6.16.
Tompers, Theodore C. Fireplace front or fixture. 3,162,188, 12–22–64, Cl. 126—140.
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Tompkins, Sherman A., and W. O. Jackson, to Johns-Manville Corp. Reinforced thermal insulation having facing sheets secured to the reinforcement. 3,152,034, 10–6–64, Cl. 161—113.
Tompos, Donald J., to Industrial Nucleonics Corp. Radioactive source capsule with capsule retaining and releasing means. 3,122,643, 2–25–64, Cl. 250—106.
Toms, Lee. Dispensing cup assembly containing a food concentrate. 3,121,636, 2–18–64, Cl. 99—78.
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Tone, John W., and W. D. Taylor, to Ronson Corp. Mashing and whipping implement. 3,132,851, 5–12–64, Cl. 259—134.
Tone, John W., G. A. Oberg, and E. S. Erickson, to Ronson Corp. Engaging and opening mechanism for a can opener. 3,142,902, 8–4–64, Cl. 30—4.
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Tong, Duncan. Artificial floral display. 3,158,524, 11–24–64, Cl. 161—27.
Tong, Duncan. Stem mounting for artificial flowers. 3,161,559, 12–15–64, Cl. 161—30.
Tong, Duncan. Artificial Christmas trees. 3,163,574, 12–29–64, Cl. 161—24.
Tongue, Ben H., to Blonder-Tongue Electronics. Unilateralized transistor relay system. 3,156,872, 11–10–64, Cl. 330—27.
Tonkin, Kenneth J., and R. J. Gies, to A. B. Dick Co. Dampening system for lithographic printing presses. 3,146,706, 9–1–64, Cl. 101—148.
Tonkin, Stephen W., and R. Pedlar, to Bristol Aircraft Ltd. Flight control of aircraft. 3,130,946, 4–28–64, Cl. 244—77.
Tonne, Friedrich. Control device for conveying pipes for dispatch tubes. 3,138,346, 6–23–64, Cl. 243—16.
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Toohig, Michael F., and A. J. Knight, to International Telephone and Telegraph Corp. Method of forming bowl shaped screen for electron discharge tubes. 3,152,384, 10–13–64, Cl. 29—25.18.
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Toomim, Hershel, to Electrosolids Corp. High gain superregenerative detectors. 3,151,297, 9–29–64, Cl. 325—429.
Toone, Brian, F. Arklass, and A. M. Barham, to Rolls-Royce Ltd. Combustion equipment with catalytic fuel/gas ignition means. 3,136,125, 6–9–64, Cl. 60—39.82.
Toorell, Sture E., to Atvidabergfacit, Aktiebolaget. Calculating machines. 3,157,353, 11–17–64, Cl. 235—62.
Tooth, Arthur C., to Fluxello Castors & Wheels Ltd. Sockets for castors. 3,128,495, 4–14–64, Cl. 16—43.
Tooth, Peter J. I. Automatic metering device. 3,158,736, 11–24–64, Cl. 235—164.
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Topfer, Alvin R., to Philco Corp. Apparatus for measuring dimensions by means of pulsed radiant energy. 3,146,350, 8–25–64, Cl. 250—83.3.
Topper, Bernard, to B. C. Kaufman. Self inflating ball. 3,119,617, 1–28–64, Cl. 273—58.
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Torell, Bruce N., to United Aircraft Corp. Fuel control for jet engines. 3,139,727, 7–7–64, Cl. 60—39.28.
Torelv, Tore S. R. Windshield wiper and washer assembly. 3,143,753, 8–11–64, Cl. 15—250.04.
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Torii, Giichi. Canopy tilting device. 3,145,720, 8–25–64, Cl. 135—20.
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Hollands, George. 3,126,049.
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Tornqvist, Erik, to Esso Research and Engineering Co. Polymerization catalyst. 3,121,063, 2–11–64, Cl. 252—429.
Tornqvist, Erik, C. W. Seelbach, and A. W. R. Langer, to Esso Research and Engineering Co. Preparation of partially reduced transition metal halide catalyst compositions. 3,128,252, 4–7–64, Cl. 252—429.
Tornqvist, Erik, and A. W. Langer, Jr., to Esso Research and Engineering Co. Cocrystallized catalyst preparation process. 3,130,003, 4–21–64, Cl. 23—887.
Tornqvist, Erik, and P. A. Argabright, to Esso Research and Engineering Co. Cocrystallized aluminum chloride vanadium chloride-titanium chloride-polymerization catalyst. 3,139,419, 6–30–64, Cl. 260—93.7.
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Torok, Julius J., to Owens-Illinois Glass Co. Press-molding machine with heat flow control. 3,148,047, 9–8–64, Cl. 65—305.

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Torow, Dorothy L. Curry comb type implement or shedder. 3,160,142, 12–8–64, Cl. 119—92.
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Torr, Ralph P., to Andre Rubber Co. Ltd. Cable spacers for multi-conductor electrical overhead transmission lines. 3,157,731, 11–17–64, Cl. 174—40.
Torr, Ralph P., to Andre Rubber Co. Ltd. Clamps of spacing devices for overhead electrical conductors. 3,161,721, 12–15–64, Cl. 174—40.
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Torrey, Rodney J., and L. W. Marxer, to Eriez Mfg. Co. Feeder and spring with inherent damping. 3,158,256, 11–24–64, Cl. 198—220.
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Benson, Carl F. 3,162,025.
Benson, Carl F., and Cowles. 3,158,165.
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Torstenson, Stig A., to Burroughs Corp. Ink transfer article for preparation of offset masters and method of making same and composition therefore. 3,138,477, 6–23–64, Cl. 117—36.1.
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Fox, John J. 3,142,403.
Toschkoff, Dimitar: *See*—
Norberg, Carl W., and Toschkoff. 3,141,417.
Toschkoff, Dimitar, to General Motors Corp. Dual diaphragm pressure responsive flow control valve. 3,123,094, 3–3–64, Cl. 137—505.13.
Toschkoff, Dimitar, to General Motors Corp. Pump with lost motion structure about diaphragm plunger. 3,135,218, 6–2–64, Cl. 103—150.
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Tosoni, Anthony L., and D. A. J. Ives, ½ to The Governors of the University of Toronto, and ½ to Astra Pharmaceutical Products, Inc. Production of high activity fibrinolytic agents. 3,140,984, 7–14–64, Cl. 195—66.
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Tothero, Dwight L., to Carrier Corp. Motor protection arrangement. 3,127,531, 3–31–64, Cl. 310—68.
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Totten, Thomas B., to C & M Products Ltd. Fluorescent fixture. 3,146,957, 9–1–64, Cl. 240—51.11.
Touborg, Jens, to Tecumseh Products Co. Lubrication of refrigeration compressors. 3,154,244, 10–27–64, Cl. 230—206.
Touey, George P., and H. E. Davis, to Eastman Kodak Co. Resinous compositions as detergent additives. 3,152,993, 10–13–64, Cl. 252—152.
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Toulmin, Harry A., Jr. Method and apparatus for making honeycomb structures. 3,121,925, 2–25–64, Cl. 22—57.
Toulmin, Harry A., Jr., to The Commonwealth Engineering Co. Jet or rocket fuel. 3,122,429, 2–25–64, Cl. 44—51.
Toulmin, Harry A., Jr., to The Commonwealth Engineering Co. of Ohio. Punch and die construction. 3,125,974, 3–24–64, Cl. 113—49.
Toulmin, Harry A., Jr., to The Commonwealth Engineering Co. of Ohio. Apparatus for simultaneously pumping and heating a fluid. 3,130,287, 4–21–64, Cl. 219—39.
Toulmin, Harry A., Jr., to The Commonwealth Engineering Co. Apparatus for welding. 3,134.893, 5–26–64, Cl. 219—74.
Toulmin, Harry A., Jr., to The Commonwealth Engineering Co. of Ohio. Arrangement for reading out symbolically recorded information in color. 3,138,783, 6–23–64, Cl. 340—173.
Toulmin, Harry A., Jr., to The Commonwealth Engineering Co. of Ohio. Jet or rocket fuel. 3,147,091, 9–1–64, Cl. 44—51.
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Tourtellotte, Frederick, to United States Rubber Co. Automatic signal-translating apparatus. 3,160,865, 12–8–64, Cl. 340—174.1.
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Elder, Max E., Moore, and Tousignant. 3,146,107.
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Tousignant, William F., to The Dow Chemical Co. 1,1-dihalo-2-oxirane derivatives of cyclopropane. 3,159,655, 12–1–64, Cl. 260—348.
Tousignant, William F., to The Dow Chemical Co. Self-extinguishing compositions of alkenyl aromatic/halophenyl acrylate and methacrylate copolymers with tris(haloalkyl)-phosphate compounds incorporated therein. 3,162,613, 12–22–64, Cl. 260—45.7.
Tousignant, William F., and W. E. Walles, to The Dow Chemical Co. Autogenous gas-producing compositions containing polymeric oxazolidinone and a solid inorganic oxidizer. 3,124,494, 3–10–64, Cl. 149—19.
Tousignant, William F., and W. J. Tacey, to The Dow Chemical Co. Anti-caking agent and composition. 3,127,444, 3–31–64, Cl. 260—539.
Tousignant, William F., and W. E. Walles, to The Dow Chemical Co. Molecular complexes of halogen and cyclic carbamate. 3,133,904. 5–19–64, Cl. 260—88.3.
Toussaint, Jean E. J., to International Standard Electric Corp. Electrical encoding system. 3,136,978, 6–9–64, Cl. 340—172.5.
Touzalin, Robert E., to Interlake Iron Corp. Method and means for operating a blast furnace. 3,153,532, 10–20–64, Cl. 263—19.
Touzalin, Robert E., and M. J. Greaves, to Inland Steel Co. Pressure stabilizing apparatus. 3,126,906, 3–31–64, Cl. 137—253.
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Towle, Jack L., to The Harshaw Chemical Co. Manufacture of diaminodiphenylether. 3,140,316, 7–7–64, Cl. 260—580.
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Townhill, Arthur. Piston and method of making same. 3,123,899, 3–10–64, Cl. 29—156.5.
Townley, Eustace R., and H. L. Frost, to S. Smith & Sons (England) Ltd. Processing of photographic material. 3,143,943, 8–11–64, Cl. 95—14.
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Towns, Raymond W., Jr., to The Dow Chemical Co. Blending apparatus. 3,145,975, 8–25–64, Cl. 259—4.
Townsend, Albert W., to Automotive Products Co. Ltd. Ball-and-socket joints. 3,154,333, 10–27–64, Cl. 287—87.
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Townsend, Stephen E., to General Dynamics Corp. Electronic shaft position indicator having error cancelling means. 3,122,735, 2–25–64, Cl. 340—347.
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Traugott, Wilfred F., deceased; B. D. Traugott, executrix. Rubber bushing remover and replacer. 3,123,901, 3–10–64, Cl. 29—263.

Traugott, Wilfred F., deceased; B. D. Traugott, executrix. Vehicle idler arm mounting. 3,124,369, 3–10–64, Cl. 280—95.

Traugott, Wilfred F., deceased; B. D. Traugott, executrix. Adjustable pivotal mounting for wheel control arm. 3,124,370, 3–10–64, Cl. 280—96.2.

Traugott, Wilfred F., deceased; B. D. Traugott, executrix. Adjustable pivotal wheel mounting. 3,163,441, 12–29–64, Cl. 280—96.2.

Traugott, Wilfred F., and W. A. Scheublein, Jr., to Moog Industries, Inc. Ball joint adjuster. 3,127,192, 3–31–64, Cl. 280—96.1.

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Trautman, Bernard J., W. R. Shaver, and E. L. Thompson, to Pullman Inc. Long travel hydraulic cushion device. 3,128,884, 4–14–64, Cl. 213—43.

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Travis, Elmer W., and C. L. Wagner, Jr., to United States of America, Navy. Aero fin removal system. 3,141,409, 7–21–64, Cl. 102—7.

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Travis, Lawrence R., and W. R. Petrick, to Westinghouse Electric Corp. Remote control apparatus. Re. 25,559, 4–21–64, Cl. 74—472.

Travis, Lewis F., to Bell Telephone Laboratories, Inc. Magnetic control circuit. 3,134,911, 5–26–64, Cl. 307—88.

Travis, Merton A. Adjustable storage rack. 3,120,200, 2–4–64, Cl. 108—107.

Travis, Ralph L. Combination fog, straight stream, and spray nozzle. 3,163,363, 12–29–64, Cl. 239—441.

Trax, Alan M., and J. J. Monagle, to Radio Corp. of America. Method of processing cathode ray tubes. 3,162,933, 12–29–64, Cl. 29—155.5.

Traycoff, Phillip S., and J. T. Heckel, Jr. Food service cart. 3,129,041, 4–14–64, Cl. 312—236.

Trayer Products, Inc.: *See*—
Mullin, Newell D. 3,133,743.

Traylor, Patricia I.: *See*—
Harris, Guy H., Traylor, and Fischback. 3,129,246.

Traylor, Teddy G.: *See*—
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Treacy, Clement J., to General Electric Co. Automatic character reader utilizing infrared radiation. 3,163,758, 12–29–64, Cl. 250—83.3.

Treacy, Cyril S. Safety tread for bath equipment floor. 3,124,811, 3–17–64, Cl. 4—173.

Treacy, John J., & Co., Inc.: *See*—
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Treadwell, Richard J.: *See*—
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Treadwell, Richard J., to S. Smith & Sons (England) Ltd. Electric switching circuits. 3,136,923, 6–9–64, Cl. 317—29.

Treaftis, Harry N., and C. E. Watts, Jr., to General Electric Co. Superconductive materials. 3,156,539, 11–10–64, Cl. 29—194.

Treat, John W., Jr., R. L. Hall, and R. F. Robinson, to United States of America, Army. Gas seal for rotatable cartridge drum. 3,159,938, 12–8–64, Cl. 42—59.

Trebilcock, John W., to E. I. du Pont de Nemours, and Co. Werner complex compounds of chromium and polycarboxylic acids. 3,136,796, 6–9–64, Cl. 260—438.

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De Neergaard, Leif E. 3,127,592.

Tredennick, William T., and J. R. Miller, to Resco Products, Inc. Universal circle ladle brick. 3,140,333, 7–7–64, Cl. 266—43.

Tredwell, John: *See*—
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Treen, John P. Motion converting means. 3,163,049, 12–29–64, Cl. 74—50.

Treesdale Laboratories, Inc.: *See*—
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Hill, Jack R. 3,148,421.

Trefileries et Laminoirs de Precision Gilby-Fodor (Societe Anonyme): *See*—
Perret, Marcel. 3,137,384.

Trefileries et Laminoirs du Havre: *See*—
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Tregubenko, Nicolas. Optical amusement device. 3,156,758, 11–10–64, Cl. 88—75.

Treileborgs Gummifabrik Aktiebolag: *See*—
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Borglin, Nils A., and Appelgren. 3,121,652.

Treirat, Eduard, to Specialties Development Corp. Over-speed shut-off mechanism for turbines and the like. 3,145,970, 8–25–64, 253—59.

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Tremblay, Raymond M.: *See*—
Demetrakopoulos, George, Hitchcock, Reinhold, and Tremblay. 3,134,981.
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Tremblay, Raymond M., to United Shoe Machinery Corp. Staple having a leg configuration for securing wood or metal studding. 3,128,667, 4–14–64, Cl. 85—49.

Tremco Mfg. Co., The: *See*—
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Tremolada, Goffredo. Vending machine with hydraulic actuating mechanism. 3,134,473. 5–26–64, Cl. 194—10.

Tremouilles, Francis J. G.: *See*—
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Trench, Anthony B., to H & T Electrical Products. Electrical reciprocating motor. 3,149,255, 9–15–64, Cl. 310—30.

Trenchard, John R., to Automatic Electric Laboratories, Inc. Voltage regulating arrangement. 3,124,697. 3–10–64, Cl. 307—51.

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Trendle, Carl F., to Roto Actuator Corp. Sealing and stop means for fluid motors. 3,128,679, 4–14–64, Cl. 92—13.

Trenner, Lewis E., to Denver-Golden Research and Development Corp. Construction materials. 3,146,155, 8–25–64, Cl. 161—139.

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Trent, Jane K. and W. R. Combination juvenile furniture. 3,135,970, 6–9–64, Cl. 5—2.

Trent, Robert L., to Texas Instruments Inc. Matched seal header. 3,136,932, 6–9–64, Cl. 317—234.

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Trentini, Bernard: *See*—
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Trentini, Ernest J. Arc reflectors. 3,122,330, 2–25–64, Cl. 240—47.

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Trepanier, Donald L., to The Dow Chemical Co. Novel 6-phenyl dihydro-oxadiazines and method of preparation thereof. 3,122,537, 2–25–64, Cl. 260—244.

Trepanier, Donald L., to The Dow Chemical Co. Pyridinyl-oxadiazines. 3,135,747, 6–2–64, Cl. 260—244.

Trepanier, Donald L., to The Dow Chemical Co. (N-acylamino)-ephedrines. 3,158,618, 11–24–64, Cl. 260—295.

Trepaud, Georges. Heat exchanger and boiler, particularly to use the heat given off by nuclear reactors. 3,129,697, 4–21–64, Cl. 122—34.

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Treseder, Robert C., to International Business Machines Corp. Random access file with stationary records. 3,144,642, 8–11–64, Cl. 340—174.1.

Tresilian, Stewart S., and A. J. A. Mitchell, to Bristol Siddeley Engines Ltd. Vehicles of use on land and in the air. 3,152,776, 10–13–64, Cl. 244—23.

Tressel, Lawrence E., 50% to E. Kohlhepp. Elevator safety control system. 3,144,917, 8–18–64, Cl. 187—29.

Trethewey, Thomas E.: *See*—
Hindenburg, Eugene D., and Trethewey. 3,146,645.

Trethewey, Thomas E., and C. M. Vipond, Jr., to Ideal Industries, Inc. Bench stripper. 3,135,145, 6–2–64, Cl. 81—9.51.

Trevaskis, Henry W., to Dunlop Rubber Co. Ltd. Securing means for inflatable inlet device. 3,119,581, 1–28–64, Cl. 244—53.

Trevaskis, Henry W., to Dunlop Rubber Co. Ltd. Tyre building machines. 3,121,653, 2–18–64, Cl. 156—403.

Trevaskis, Henry W., to Dunlop Rubber Co. Ltd. Production of pneumatic tyres. 3,157,542, 11–17–64, Cl. 156—133.

Treverton, Richard W., to The Gleason Works. Face mill cutter and machine for cutting gears. 3,138,995, 6–30–64, Cl. 90—5.

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Triangle Painting Service: *See*—
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Tribbett, Murray C., to The French Oil Mill Machinery Co. Molding press with press plates movable out of the press. 3,142,093, 7–28–64, Cl. 18—16.

Tribe, Thomas F., ½ to British Federal Welder and Machine Co. Ltd. Clinching tools and units. 3,130,770, 4–28–64, Cl. 153—12.

Tribe, Thomas F. ½ to British Federal Welder and Machine Co. Ltd. Manufacturing metal structures. 3,131,286, 4–28–64, Cl. 219—80.

Tribe, Thomas F., ½ to British Federal Welder and Machine Co. Ltd. Clinching tools and units. 3,142,329, 7–28–64, Cl. 153—12.

Tribe, Thomas F., ½ to British Federal Welder and Machine Co. Ltd. Clinching apparatus. 3,143,095, 8–4–64, Cl. 113—54.

Tribe, Thomas F., ½ to British Federal Welder and Machine Co. Ltd. Metal working dies. 3,147,725, 9–8–64, Cl. 113—52.

Tribe, Thomas F., ½ to British Federal Welder and Machine Co. Ltd. Clinching apparatus. 3,147,726, 9–8–64, Cl. 113—54.

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Trick, Kuno, T. Schulte, F. Herr, and R. Wolber. Motion converter for electrically driven rotary oscillators. 3,122,879, 3–3–64, Cl. 58—28.

Trickett, Kenneth A., to United States of America, Atomic Energy Commission. Article handling device. 3,130,841, 4–28–64, Cl. 214—28.

Trickett, Kenneth A., and J. T. Rogers, Jr., to United States of America, Atomic Energy Commission. Pressure vessels. 3,121,046, 2–11–64, Cl. 176—52.

Trickett, Kenneth A., and M. R. Grassmann, to United States of America, Atomic Energy Commission. Support structures. 3,123,328, 3–3–64, Cl. 248—1.

Trico Products Corp.: *See*—
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Deibel, Raymond A., Riester, and Page. 3,118,164.
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Glynn, Brian. 3,147,508.

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Trimble, Cebern B., to The National Cash Register Co. Electro-optical multivibrator using electroluminescent and photoconductive elements. 3,146,352, 8–25–64, Cl. 250—209.
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Tringali, Dominick, to General Time Corp. Indexing clutch assembly for a secondary clock correction mechanism. 3,148,499, 9–15–64, Cl. 58—34.
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Triolo, Louis. Phonograph record envelope. 3,162,356, 12–22–64, Cl. 229—68.
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Tripoli, Joseph V. Diaphragm valve. 3,154,288, 10–27–64, Cl. 251—331.
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Troeger, Henry, to The Bendix Corp. Method of making a flexural pivot. 3,124,873, 3–17–64, Cl. 29—416.
Troeger, Henry, to The Bendix Corp. Method of making a flexural pivot device. 3,142,888, 8–4–64, Cl. 29—149.5.
Troeleman, Adriaan J., and C. R. Delagrange, to Celanese Corp. of America. Process for making ribbons. 3,151,011, 9–29–64, Cl. 156—180.
Troeppl, William M., ½ to G. A. Petersen and ½ to A. E. Petersen. Tooth for digging equipment used in caliche and similar strata. 3,136,077, 6–9–64, Cl. 37—142.
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Hall, Jesse E., Sr. 3,120,271.
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Trost, Wayne C., to Barber-Colman Co. Spooler type winder. 3,121,541, 2–18–64, Cl. 242—35.5.
Trotin, Etienne, to Societe Rhodiaceta. Brushes. 3,153,800, 10–27–64, Cl. 15—159.
Trotman, Herbert H., to Phillips Petroleum Co. Air-carrying flexible layer for under-body ventilating. 3,162,487, 12–22–64, Cl. 297—453.
Trotman, Herbert H., to Phillips Petroleum Co. Hinged and marginally stiffened under-body ventilating pad. 3,162,488, 12–22–64, Cl. 297—453.
Trotman, Herbert H., to Phillips Petroleum Co. Forced air under-body ventilating pad devices. 3,162,489, 12–22–64, Cl. 297—453.
Trott, Mervyn L. Phonograph needle play timing apparatus. 3,123,361, 3–3–64, Cl. 274—1.
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Troutner, Arthur L. Composite truss. 3,137,899, 6–23–64, Cl. 20—.5.
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Troxell, Harold M. Cable reel apparatus. 3,146,865, 9–1–64, Cl. 191—12.4.
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Troy, Leonard. Internally expanding vehicle brake shoe construction with exterior actuators. 3,135,362, 6–2–64, Cl. 188—78.
Troy, Leonard. Brake drum. 3,151,709, 10–6–64, Cl. 188—218.
Troy, Leonard. Thermally compensating brake drum. 3,151,710, 10–6–64, Cl. 188—218.
Troy, Leonard. Self-leveling and self-contained vehicle suspension strut. 3,163,412, 12–29–64, Cl. 267—15.
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Trudeau, Urban P.: *See*—
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Trudeau, Urban P., to Owens-Illinois Glass Co. Method and apparatus for removing and transferring finished glass articles. 3,137,394, 6–16–64, Cl. 214—1.
Trudeau, Urban P., to Owens-Illinois Glass Co. Apparatus for distributing gobs of glass to plural forming machines. 3,147,102, 9–1–64, Cl. 65—225.
True, Cecil W. Freezeless water supply. 3,120,600, 2–4–64, Cl. 219—38.
True Mfg. Co., Inc.: *See*—
Trulaske, Frank R. 3,136,983.
True, Martin E., and G. Boer, to Jersey Production Research Co. Drilling barge. 3,118,283, 1–21–64, Cl. 61—46.5.
True, Thomas T.: *See*—
Good, William E., and True. 3,155,871.
True, Thomas T., to General Electric Co. Bridged-T termination network. 3,155,927, 11–3–64, Cl. 333—32.
Trueb, Robert E., and A. M. Walkow, to Texas Instruments Inc. Container closure method. 3,136,050, 6–9–64, Cl. 29—470.
Truesdale, Cavour L., to Plastic Products, Inc. Drapery heading seam. Re. 25,613, 7–7–64, Cl. 160—330.
Truesdale, Gordon K.: *See*—
Currey, Charles H., Brown, Holbrook, Truesdale, and Freeman. 3,143,705.
Currey, Charles H., Freeman, Holbrook, and Truesdale. 3,148,245.
True Temper Corp.: *See*—
Eastman, Wesley J. 3,118,327.
Holahan, Joseph M. 3,160,363.
Holahan, Joseph M., Jr. 3,128,059.
Pettigrew, William L., McDaniels, and Reagan. 3,120,193.
Sivon, Robert L. 3,127,847.
Sutch, Harold E. 3,159,198.
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Weaver, Paul J. 3,136,127.
Weaver, Paul J. 3,142,213.
Weaver, Paul J. 3,156,144.
Weaver, Paul J. 3,156,155.
Weaver, Paul J. 3,161,095.
Truffert, Louis M. A., and L. M. P. Walter. Buoyant protective device for boats. 3,145,682, 8–25–64, Cl. 114—121.
Trufitt, Alton D., to Diamond National Corp. Paper making apparatus. 3,132,990, 5–12–64, Cl. 162—317.
Truhan, Andrew. Controlled environment room system. 3,124,903, 3–17–64, Cl. 47—17.
Truhon, John A. Stroke limit means for hand presses. 3,157,112, 11–17–64, Cl. 100—231.
Truitt, James K.: *See*—
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Pevere, Ernest F., and Truitt. 3,151,162.
Truitt, Thomas D., and L. P. Neuwirth, to Electronic Associates Inc. Incremental differential analyzer. 3,148,273, 9–8–64, Cl. 235—152.
Truk-A-Door Co., Inc.: *See*—
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Trulaske, Frank R., to True Mfg. Co., Inc. Payment indicator for a beverage cooler. 3,136,983, 6–9–64, Cl. 340—220.
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Gilchrist, James R. 3,142,855.
Gilchrist, James R., and Park. 3,148,401.
Truman, Chester A. Flexible rod pusher tool. 3,140,077, 7–7–64, Cl. 254—134.3.
Trumbull, Donald E., and R. E. Standlick, to Pyles Industries, Inc. Automatic meter valve. 3,132,775, 5–12–64, Cl. 222—453.
Trumbull, Donald E., and R. E. Standlick, to Pyles Industries, Inc. Material dispensing device including a metering chamber. 3,160,331, 12–8–64, Cl. 222—309.
Trumbull, Harold E.: *See*—
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Grimm, James J., and Trumbull. 3,122,455.
Trumbull, Harold E., to Xerox Corp. Xerographic reproducing apparatus. 3,148,601, 9–15–64, Cl. 95—1.7.
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Trümpelmann, Ernst, K. Westinger, E. Altenburger, and O. Hirt, to Olympia-Werke A.G. Calculators. 3,116,873, 1–7–64, Cl. 235—63.
Trümpelmann, Ernst, K. Westinger, and E. Altenburger, to Olympia Werke A.G. Division apparatus for calculators. 3,116,874, 1–7–64, Cl. 235—63.
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Trundy, Alvin S. Fabric fastening device. 3,149,386, 9–22–64, Cl. 24—157.
Truog, Daniel S., and K. W. Dyer, to Crimsco, Inc. Unit for maintaining food at a constant temperature. 3,148,676, 9–15–64, Cl. 126—246.
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Trupp, Bernard: *See*—
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Trupp, Garrison and B. Dental prophylactic. 3,144,867, 8–18–64, Cl. 128—234.
Trupp, Hermann A., and L. I. Kownurko, to Philco Corp. Two-speed transmission mechanism for washing machine. 3,124,968, 3–17–64, Cl. 74—217.
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Trutna, William R., to E. I. du Pont de Nemours and Co. Process for the preparation of thiuram monosulfides. 3,133,966, 5–19–64, Cl. 260—567.
Trutner, Donald G.: *See*—
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Truxa, Leslie, to Dominion Engineering Works Ltd. Breast-roll retraction mechanism for paper machine fourdriniers. 3,140,223, 7–7–64, Cl. 162—273.
Truxa, Leslie, to Dominion Engineering Works Ltd. Adjustable drainage foil for paper machines. 3,140,225, 7–7–64, Cl. 162—352.
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Tryhorn, Donald W., and J. J. Smith, to Sir W. A. Armstrong Whitworth and Co. (Engineers) Ltd. Exhaust systems for gas producing units. 3,153,318, 10–20–64, Cl. 60—13.
Tryon, Edward J., to Standard Change-Makers, Inc. Coin dispenser. 3,125,104, 3–17–64, Cl. 133—5.
Tryzna, Joseph J., to Continental Can Co., Inc. Liquid coating composition and metal substrate coated therewith. 3,123,582, 3–3–64, Cl. 260—43.
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Tsang, Sien M., and C. E. Lewis, to American Cyanamid Co. Pyridinium azo dyes and process for their production. 3,151,106, 9–29–64, Cl. 260—156.
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Tschantz, Edward E., to United Shoe Machinery Corp. Blind rivet setting tools. 3,127,045, 3–31–64, Cl. 218—42.
Tschirner, Henry J., and L. A. Williams, to Sherritt Gordon Mines Ltd. Non-ferrous recovery process. 3,127,264, 3–31–64, Cl. 75—108.
Tschudin, Oswald. Striking mechanisms for clocks. 3,154,911, 11–3–64, Cl. 58—38.
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Tsiang, Sih H., to Westinghouse Air Brake Co. Information transfer in automatic railroad classification yards. 3,128,976, 4–14–64, Cl. 246—182.
Tsien, Hsue C., to Esso Research and Enginering Co. Apparatus for analyzing irregular motions of machinery. 3,159,024, 12–1–64, Cl. 73—71.2.

Tsochatzopoulos, Photios P., to Becton, Dickinson and Co. Blood collecting assembly. 3,141,460, 7–21–64, Cl. 128—276.
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Tsou, Kwan C., to The Borden Co. Polyamide resins and process. 3,145,195, 8–18–64, Cl. 260—86.1.
Tsou, Kwan C., to The Borden Co. Polymers of alpha-(N-aziridino) alcohols. 3,119,790, 1–28–64, Cl. 260—67.5.
Tsou, Kwan C., A. Lyem, and B. D. Halpern, to The Borden Co. Dinitropolystyrene explosive composition. 3,154,448, 10–27–64, Cl. 149—19.
Tsou, Kwan C., and E. A. Blommers, to The Borden Co. Epoxidized polyamides. 3,159,612, 12–1–64, Cl. 260—89.7.
Tsou, Michael T.: *See*—
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Tsuchiya, Yoshio: *See*—
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Tsuda, Kyosuke, S. Nozoe, and Y. Okada, to Sankyo Co. Ltd. New hydroxy-oestrane compounds. 3,129,234, 4–14–64, Cl. 260—397.45.
Tsugawa, Ryuichiro: *See*—
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Okumura, Shinji, Tsugawa, Tsunoda, Motozaki, Suyama, and Kanao. 3,123,536.
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Tsujihata, Keiji, and Y. Sawada, to Yawata Iron & Steel Co., Ltd. Raw material charging device in the top part of a blast furnace. 3,131,821, 5–5–64, Cl. 214—35.
Tsujihata, Keiji, G. Harada, H. Shimizu, R. Fukagawa, and K. Tanigawa, to Yawata Iron & Steel Co. Method of baking ore briquettes. 3,146,088, 8–25–64, Cl. 75—5.
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Tsukada, Seiichi, K. Kimura, M. Osumi, and H. Yamamoto, to Shin-Mitsubishi Jukogyo Kabushiki Kaisha. Method of spot welding light metal. 3,141,951, 7–21–64, Cl. 219—91.
Tsukamoto, Kenkichi. Miniaturized aluminum movable coil. 3,142,786, 7–28–64, Cl. 317—158.
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Okumura, Shinji, Tsugawa, Tsunoda, Motozaki, Suyama, and Kanao. 3,123,536.
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Tsunoo, Toshihiko, and M. Uruma, to Sumitomo Kinzoku Kogyo Kabushiki Kaisha. Magnetic circuit for the deflection of flux leakage. 3,134,057, 5–19–64, Cl. 317—201.
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Tsuzuki, Akira. Time setting mechanism in watch. 3,151,-441, 10–6–64, Cl. 58—85.5.
Tu, Shu-Tung, to United Shoe Machinery Corp. Manufacture of leather-like open fibrous materials. 3,136,682, 6–9–64, Cl. 162—151.
Tu, Shu-Tung, and R. A. Whitmore, to United Shoe Machinery Corp. Process of making leather-like material. 3,122,599, 2–25–64, Cl. 264—299.
Tuba, Zoltán, L. Szporny, and J. Tóth, to Richter Gedeon Vegyészeti Gyár RT. 21-piperazine derivatives of hydrocortisone and prednisolone. 3,123,598, 3–3–64, Cl. 260—239.5.
Tubb, Reginald J., to Engineering Research and Application Ltd. Carburetors. 3,147,320, 9–1–64, Cl. 261—51.
Tubbs, Elton H., to El-Flo Machinery Corp. Apparatus for harvesting articles such as nuts lying upon the ground. 3,148,493, 9–15–64, Cl. 56—328.
Tubbs, Howard A. Yard hydrant. 3,158,170, 11–24–64, Cl. 137—218.
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Tucci, Anthony E., S. E. Torrey, and W. D. Hallermeier, to United States of America, Army. Weapon and target simulator. 3,143,811, 8–11–64, Cl. 35—25.
Tuchel, Ulrich. Connector. 3,121,602, 2–18–64, Cl. 339—275.
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Tuck, Norman G. M., and G. H. Tomlinson, II, to Howard Smith Paper Mills Ltd. Method and apparatus for separating gas from liquid rich foams or liquids containing entrained air. 3,163,508, 12–29–64, Cl. 55—46.
Tuck, Robert M., P. B. Pritchard, and M. E. Fisher, to General Motors Corp. Transmission. 3,157,607, 11–17–64, Cl. 74—754.
Tucker, Augustine J. Material handling apparatus. 3,122,-398, 2–25–64, Cl. 302—58.
Tucker, Burnell A. Power unit including a refrigerant power cycle and hydraulic system for driving generator. 3,124,-696, 3–10–64, Cl. 290—52.
Tucker, Carl L., to The Singer Co. No-freeze refrigerant control. 3,150,502, 9–29–64, Cl. 62—197.
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Tucker, David G., and L. Kay, to National Research Development Corp. Frequency-modulation echo-sounder. 3,135,-942, 6–2–64, Cl. 343—3.
Tucker, Eli J., Jr. Method of preserving animal tissue, such as bone, including method of making bone paste. 3,126,-884, 3–31–64, Cl. 128—1.
Tucker, Emmitt M., Sr., to Tucker & Sons. Endless track unit. 3,154,351, 10–27–64, Cl. 305—48.
Tucker, Frank P. Base bracket for shelves. 3,157,252, 11–17–64, Cl. 189—28.
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Tucker, John H., and C. R. Wilder, to Phillips Petroleum Co. Polyolefin-rubber bond and method therefor. 3,157,564, 11–17–64, Cl. 161—243.
Tucker, Joseph E., and E. D. Pinkham, to United States of America, Navy. Sine-cosine multi-rotation servo. 3,139,-571, 6–30–64, Cl. 318—28.
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Tucker, Morton. Window structure. 3,159,883, 12–8–64, Cl. 20—52.2.
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Tucker, Theodore. Dead locks. 3,120,970, 2–11–64, Cl. 292—39.
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Miller, Walter L., and Tudor. 3,133,873.
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Tufts, Lewis E., to Hooker Chemical Corp. Controlled process for producing alkali metal bifluoride and substantially anhydrous gaseous hydrogen fluoride. 3,157,469, 11–17–64, Cl. 23—153.

Tufts, William F. Garment hanger. 3,148,809, 9–15–64, Cl. 223—87.

Tugen, Robert G., and G. F. Flanagan, to Commonwealth Scientific and Industrial Research Organizaiton. Apparatus for the manufacture of molded felt. 3,148,435, 9–15–64, Cl. 28—14.

Tuggle, Dewey R., Sr. Grass sodding and planting tool. 3,163,455, 12–29–64, Cl. 294—50.5.

Tuhtar, Eugene W. Church pew. 3,158,400, 11–24–64, Cl. 297—460.

Tuite, Robert J., to Eastman Kodak Co. Magenta-forming couplers. 3,152,896, 10–13–64, Cl. 96—22.

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Tull, Roger J., and J. M. Chemerda, to Merck & Co., Inc. Process for preparing sulfonylureas. 3,121,102, 2–11–64, Cl. 260—397.7.

Tull, Roger J., and E. W. Tristram, to Merck & Co., Inc. Preparation of pyrimidine derivatives by ether cleavage. 3,161,642, 12–15–64, Cl. 260—256.4.

Tullar, Benjamin F., to Sterling Drug Inc. Preparation of tertiary-aminoalkyl amino-alkoxy-benzoates. 3,134,805, 5–26–64, Cl. 260—472.

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Tulleners, Anthony J., to Union Oil Co. of California. Hydrocracking process with the use of a hydrogen donor. 3,147,206, 9–1–64, Cl. 208—56.

Tullock, Charles W., to E. I. du Pont de Nemours and Co. N-trifluoromethyl amino-sulfur compounds. 3,121,112, 2–11–64, Cl. 260—543.

Tullos, Frank N., to Jersey Production Research Co. Electrical signal generator. 3,119,097, 1–21–64, Cl. 340—168.

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Tully, John C., B. P. Franklin, and L. O. Richardson, to H. K. Porter Co. Sanding machine with orbital and reciprocating motions. 3,136,099, 6–9–64, Cl. 51—170.

Tully, John W., Jr., to The Ryan Aeronautical Co. Short circuit protector for transistorized circuits. 3,120,635, 2–4–64, Cl. 323—22.

Tulp, Theodorus J., and H. A. R. De Miranda, to North American Philips Co., Inc. Transistor circuit for producing current pulses through a variable impedance. 3,163,774, 12–29–64, Cl. 307—88.5.

Tumavicus, Julius W., to United Aircraft Corp. Double thickness wall construction for rockets. 3,127,667, 4–7–64, Cl. 29—157.

Tumer, Huseyin V., and E. R. Cousins, to United States of America, Agriculture. Process for preparing Raney nickel catalyst. 3,139,408, 6–30–64, Cl. 252—466.

Tumino, Carmen G.: *See*—
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Tung, Ching C.: *See*—
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Tuozzo, Michael R., to South Chester Corp. Retractable screw fastener. 3,126,935, 3–31–64, Cl. 151—69.

Tuozzo, Michael R., and S. J. Mundell, Jr., to South Chester Corp. Retainer ring adapted to be snapped through the workpiece aperture. 3,138,188, 6–23–64, Cl. 151—69.

Tupman, Kenneth: *See*—
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Tupman, Kenneth, and D. R. Irving, to The British Petroleum Co. Ltd. Treatment of petroleum fractions to lower the pour point. 3,125,505, 3–17–64, Cl. 208—143.

Tupman, Kenneth, and R. W. Willoughby, to The British Petroleum Co. Ltd. Hydrofining hydrocarbon fractions. 3,125,507, 3–17–64, Cl. 208—216.

Tupman, Kenneth, and P. T. White, to The British Petroleum Co. Ltd. Treatment of hydrocarbon fractions. 3,125,510, 3–17–64, Cl. 208—264.

Tupman, Kenneth, and P. T. White, to The British Petroleum Co. Ltd. Treatment of hydrocarbon fractions to obtain a lower pour point product. 3,125,511, 3–17–64, Cl. 208—264.

Tupper, Earl S., to Rexall Drug and Chemical Co. Removable frame and handle assembly. 3,137,423, 6–16–64, Cl. 224—45.

Tupper, Earl S., to Rexall Drug and Chemical Co. Discardable or reusable plastic package. 3,155,233, 11–3–64, Cl. 206—46.

Tupper, Myron D., to General Electric Co. Fractional horsepower electric motor. 3,145,313, 8–18–64, Cl. 310—42.

Turansky, Clement J.: *See*—
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Turato, Luigi. Process and apparatus for spreading out and vacuum drying of wet dressed and/or colored hides. 3,151,952, 10–6–64, Cl. 34—92.

Turato, Sergio: *See*—
Bille, Mario, and Turato. 3,160,899.

Turbak, Albin F.: *See*—
Rutkowski, Alfred J., and Turbak. 3,121,737.
Rutkowski, Alfred J., and Turbak. 3,133,949.

Turbak, Albin F., to Esso Research and Engineering Co. Blending polyolefin with chelating agent to improve dyeability. 3,148,936, 9–15–64, Cl. 8—42.

Turbett, Robert J., to Union Carbide Corp. Adduct of thioglycolic acid and polyethylene wax, emulsions thereof and method of preparing same. 3,144,348, 8–11–64, Cl. 106—271.

Turbo Dynamics Corp.: *See*—
Bennett, Charles R., Jung, and Pigott. 3,118,773.

Turbo Machine Co.: *See*—
Berger, Emil J., and West. 3,131,840.
Berger, Emil J., and West. 3,162,031.
Brownell, John R. 3,151,797.
Carruthers, George A. 3,139,664.
Pegon, Alexander A., Franklin, and Rosander. 3,144,165.
Wyatt, William K. 3,145,398.

Turcat, Andre, to Nord-Aviation Societe Nationale de Constructions Aeronautiques. Aircraft instrument for the control of an air-intake of variable shape for a supersonic engine. 3,141,300, 7–21–64, Cl. 60—35.6.

Turchi, Anthony J., and N. H. Lieb, to Star Dental Mfg. Co., Inc. Dental drill with collet. 3,120,706, 2–11–64, Cl. 32—27.

Turcott, Garth A.: *See*—
Hofer, Walter D. 3,155,170.

Turek, Thomas J., to Bendix-Westinghouse Automotive Air Brake Co. Load controlled valve for vehicle air springs. 3,145,032, 8–18–64, Cl. 280—124.

Turetzky, Melvin N.: *See*—
Katz, Leon, and Turetzky. 3,125,586.
Katz, Leon, Turetzky, and Tullsen. 3,117,974.

Turetzky, Melvin N., to General Aniline & Film Corp. Process for preparing perylene. 3,132,187, 5–5–64, Cl. 260—668.

Turetzky, Melvin N., and L. Katz, to General Aniline & Film Corp. Basic anthraquinone dyestuffs. 3,123,605, 3–3–64, Cl. 260—247.

Turgeon, Joseph A., to Eastern Power Devices Ltd. Operating mechanism for disconnect switches. 3,143,608, 8–4–64, 200—48.

Turiansky, Iwan W., to Ethicon, Inc. Surgical package. 3,143,209, 8–4–64, Cl. 206—63.3.

Turk, Chester F.: *See*—
Krapcho, John, and Turk. 3,155,649.

Turkat, Michael, to Space Age Materials Corp. Internally cooled rocket nozzle. 3,137,132, 6–16–64, Cl. 60—35.6.

Turkat, Michael, to Space Age Materials Corp. Tungsten resistance elements. 3,140,460, 7–7–64, Cl. 338—309.

Turkevich, John: *See*—
Schwarzenbek, Eugene F., and Turkevich. 3,144,402.

Turkewitsch, William, to The Scholl Mfg. Co., Inc. Dihydroxybenzoic acid for use in delaminating epithelium. 3,161,566, 12–15–64, Cl. 167—61.

Turlay, Joseph D., to General Motors Corp. Resilient support assembly. 3,139,250, 6–30–64, Cl. 248—10.

Turnage, Richard W., and C. K. Dunlap, Jr., to Sonoco Products Co. Container construction. 3,144,975, 8–18–64, Cl. 229—4.5.

Turnblom, Carl H.: *See*—
Armstrong, Desmond R., and Turnblom. 3,131,326.

Turnbull Elevator Ltd.: *See*—
Prucha, Carl T. 3,146,872.

Turnbull, Neil C., and S. J. Roschuk, to Norton Co. Casting of abrasive material. 3,137,751, 6–16–64, Cl. 264—336.

Turnbull, Roger F., to Lamb Grays Harbor Co., Inc. Interlocking crimping machines. 3,139,716, 7–7–64, Cl. 53—380.

Turner, Almerin W.: *See*—
Hurst, Thomas L., and Turner. 3,117,063.
Hurst, Thomas L., and Turner. 3,137,639.
Turner, Benjamin R., to Rohn Mfg. Co. Tower structure. 3,119,471, 1–28–64, Cl. 189—12.
Turner Bros. Asbestos Co. Ltd.: *See*—
Hicks, Alfred C., and Hambley. 3,155,302.
Turner, Charles F., to Olin Mathieson Chemical Corp. Liquid propellant cartridge. 3,162,123, 12–22–64, Cl. 102—39.
Turner, Charles R., and J. H. Hilldale, Jr., to The Proctor-Silex Corp. Ironing table. 3,143,086, 8–4–64, Cl. 108—81.
Turner, Clarence A., 49% to W. Y. Bell. Can puncturing device. 3,152,395, 10–13–64, Cl. 30—8.
Turner, Clyde T. Gas and oil well casing head assembly. 3,158,389, 11–24–64, Cl. 285—133.
Turner Corp.: *See*—
Lagreid, Magnus. 3,132,970.
Lagreid, Magnus, and Lindgren. 3,140,740.
Lindgren, William L. 3,125,153.
Lindgren, William L. 3,143,107.
Lindgren, William L., and Lagreid. 3,143,253.
Turner, Delber W., to Petrolite Corp. Apparatus for creating uniform streams in flow passages. 3,141,000, 7–14–64, Cl. 252—360.
Turner, Delber W., to Petrolite Corp. Electric treater and method. 3,148,133, 9–8–64, Cl. 204—188.
Turner, Donald F.: *See*—
Brown, Robert S., Turner, and Welter. 3,150,608.
Turner, Edward D., to United Shoe Machinery Corp. Injection moulding machine. 3,121,919, 2–25–64, Cl. 18—30.
Turner, Eugene L.: *See*—
Kuyt, Frits, and Turner. 3,153,690.
Turner, Eugene L., to Bausch & Lomb Inc. Fluid flow responsive timing mechanism. 3,162,736, 12–22–64, Cl. 200—81.9.
Turner, Frank J., and G. R. Watson, to Warner-Lambert Pharmaceutical Co. Diagnostic preparation for detection of pseudomonas. 3,122,480, 2–25–64, Cl. 167—84.5.
Turner, Frank T.: *See*—
Buckingham, William D., Turner, and Snider. 3,147,380.
Turner, Frederick J. L., to Creed & Co. Ltd. Perforating apparatus. 3,144,205, 8–11–64, Cl. 234—34.
Turner, Frederick J. L., B. S. Mason, and H. G. Webberley, to Creed & Co. Ltd. Perforating apparatus. 3,132,797, 5–12–64, Cl. 234—110.
Turner, Gary F. Drilling assembly. 3,143,902, 8–11–64, Cl. 77—55.
Turner, George W.: *See*—
Arnold, Julian R., and Turner. 3,126,094.
Turner, Gilbert M., to E. I. du Pont de Nemours and Co. Polymerization process for polyester films. 3,161,710, 12–15–64, Cl. 264—216.
Turner, Greg F.: *See*—
Bale, Alton G., Jr., and Turner. 3,125,176.
Turner, Harlan, Jr.: *See*—
Ebbets, Raymond B., Hallett, and Turner. 3,146,750.
Turner, Harold H., to The Ingersoll Milling Machine Co. Cam cutting machine. 3,148,588, 9–15–64, Cl. 90—13.5.
Turner, Henry C. Treatment of articles made of leather-like material. 3,130,083, 4–21–64, Cl. 134—7.
Turner, Henry H. Nut cracker. 3,127,917, 4–7–64, Cl. 146—15.
Turner, Horace G., to The Plessey Co. Ltd. Acceleration-control devices for use in liquid-fuel supply systems, more particularly of gas turbines. 3,131,750, 5–5–64, Cl. 158—36.4.
Turner, Horace G., to The Plessey Co. Ltd. Fuel control in internal-combustion turbine engines. 3,146,591, 9–1–64, Cl. 60—39.28.
Turner, James B., to Shell Oil Co. Wheel and rim construction. 3,145,755, 8–25–64, Cl. 152—401.
Turner, James O., to Emerson-Garden Electric Co., Inc. Cable puller. 3,121,557, 2–18–64, Cl. 254—134.3.
Turner, John D., to Barber-Greene Co. Variable calibration scale for measuring bulk materials. 3,128,014, 4–7–64, Cl. 222—29.
Turner, John J.: *See*—
Rifenbergh, Clare M. 3,143,637.
Turner, John M., to Canadian Industries Ltd. Polyolefine antioxidants. 3,117,947, 1–14–64, Cl. 260—45.9.
Turner, John R.: *See*—
Carriere, Maurice M., Casey, Ervine, Hamil, Schimpf, Smith, and Turner. 3,123,959.
Turner, Laurence C., Jr.: *See*—
Hester, Waitus C., Jr. 3,145,476.
Turner, Mable A. Colostomy aid. 3,123,074, 3–3–64, Cl. 128—283.
Turner, Norman, to National Research Development Corp. Preparation of wood for bending. 3,132,674, 5–12–64, Cl. 144—327.
Turner, Philip G., to The International Nickel Co., Inc. Method of making blanks for coining. 3,131,472, 5–5–64, Cl. 29—528.
Turner, Richard F.: *See*—
Koutz, Stanley L., Turner, and Fortescue. 3,135,665.
Turner, Thomas M., W. H. Jaques, and J. J. Bradley, to FMC Corp. Breaker bar for web rewinding machine. 3,148,843, 9–15–64, Cl. 242—56.
Turner, Vernon E.: *See*—
Leonard, Edward J. 3,135,488.
Turner, Walter S., to Marlboro Mfg., Inc. Hydraulic door closer. 3,129,453, 4–21–64, Cl. 16—52.
Turner, Walter S., and J. E. Felix, to Lake Park Tool & Die Co. Door latch and locking means. 3,147,608, 9–8–64, Cl. 70—146.
Turner, William, to The Sheffield Twist Drill & Steel Co., Ltd. Rotary cutting tools. 3,142,111, 7–28–64, Cl. 29—105.
Turner, William R., to The Atlantic Refining Co. Method of coating paper. 3,146,121, 8–25–64, Cl. 117—60.
Turnidge, Leslie A. Device for controlling engine and transmission. 3,135,234, 6–2–64, Cl. 115—41.
Turnquest, Byron W., and W. P. Hettinger, Jr., to Sinclair Research, Inc. Butane dehydrogenation. 3,126,426, 3–24–64, Cl. 260—683.3.
Turolla, Pino G. Quick release fastener. 3,141,215, 7–21–64, Cl. 24—201.
Turovlin, Bernard, to General Dynamics Corp. Nuclear reactor fuel element with attached thermocouple. 3,132,077, 5–5–64, Cl. 176—68.
Turovlin, Bernard, and J. R. Lindgren, to General Dynamics Corp. Method of making wafers with dessiminated particles. 3,118,221, 1–21–64, Cl. 29—420.5.
Turpin, Derek G.: *See*—
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Turrell, Douglas W., to Leeds and Northrup Co. Variable frequency oscillator. 3,145,349, 8–18–64, Cl. 332—16.
Turton, Walter, and W. T. Reilly, to J. P. Stevens & Co. Inc. Stretch type fabrics having temporary stability. 3,127,306, 3–31–64, Cl. 161—89.
Turula, Eugene, and G. B. Lynch, to Minnesota Mining and Mfg. Co. Variable focal length lens system. 3,135,818, 6–2–64, Cl. 88—57.
Turunen, William A.: *See*—
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Turzillo, Lee A.: *See*—
Klein, Alexander. 3,124,314.
Turzillo, Lee A. Means of grouting and concreting. Re. 25,614, 7–7–64, Cl. 61—35.
Tuscher, Joseph F.: *See*—
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Tuschhoff, John V.: *See*—
Hanson, Cleo E., and Tuschhoff. 3,150,993.
Tuskegee Institute: *See*—
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Tussey, Chester E. Fluid pump. 3,155,308, 11–3–64, Cl. 230—55.
Tutelian, John. Ventilated cage. 3,136,470, 6–9–64, Cl. 229—6.
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Maisch, Oliver. 3,124,375.
Tuttle, Bertha S., and W. A. Vittands, to J. N. Tuttle, Inc. Method for providing protective surfaces. 3,118,792, 1–21–64, Cl. 148—6.14.
Tuttle, Donald S. Jr., to The Risdon Mfg. Co. Sealing device for pressurized package. 3,146,922, 9–1–64, Cl. 222—394.
Tutthill, Fred E., to Kemco Pump Division of the American Crucible Products Co. Breatherless pressure responsive liquid level control. 3,162,737, 12–22–64, Cl. 200—83.
Tuttle, Frederic C., to The Dow Chemical Co. Process for the preparation of pelletized solids. 3,152,005, 10–6–64, Cl. 117—100.
Tuttle, J. N., Inc.: *See*—
Tuttle, Bertha S., and Vittands. 3,118,792.
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Fontaine, Jacques. 3,156,600.
Tuzinski, John R., to Minnesota Mining and Mfg. Co. Electrical component formed with dielectric jacket. 3,121,192, 2–11–64, Cl. 317—158.
Tweddell, James C., to James H. Matthews & Co. Flower vase with flower stem-positioning device. 3,142,936, 8–4–64, Cl. 47—41.
Tweed, Francis E., to Western Electric Co., Inc. Materials handling rack. 3,154,195, 10–27–64, Cl. 211—60.
Tweed, Francis E., to Western Electric Co., Inc. Materials handling tray. 3,154,197, 10–27–64, Cl. 211—126.
Tweedale, Ralph L., to Massey-Ferguson Inc. Grain tank and conveyor mechanism for combines. 3,123,235, 3–3–64, Cl. 214—17.
Tweedale, Ralph L. Orbital dry shaver and cutting head therefor. 3,129,507, 4–21–64, Cl. 30—43.
Tweedale, Ralph L., to Massey-Ferguson Inc. Vacuum-type seed planter. 3,156,201, 11–10–64, Cl. 111—77.
Tweedale, Ralph L., to Massey-Ferguson Inc. Grain tank and conveyor mechanism for combines. 3,157,297, 11–17–64, Cl. 214—17.
Tweedale, Ralph L., to Massey-Ferguson Inc. Grain tank and conveyor mechanism for combines. 3,159,289, 12–1–64, Cl. 214—17.
Tweit, Olav M., to Allied Chemical Corp. Coke oven charging machine having mechanism for removing and replacing charging hole covers. 3,142,391, 7–28–64, Cl. 214—18.
Tweit, Robert C., to G. D. Searle & Co. 1-dehydro and 1,6-dehydro derivatives of 15-oxygenated pregn-4-ene-3,20-diones. 3,123,622, 3–3–64, Cl. 260—397.3.
Tweit, Robert C., to G. D. Searle & Co. N-(substituted phenoxyalkyl) aralylamines. 3,139,456, 6–30–64, Cl. 260—570.7.

Tweit, Robert C., to G. D. Searle & Co. 2-[α-(nitroalkyl)-heterocyclic-methylthio] ethylamines. 3,141,892, 7–21–64, Cl. 260—329.
Tweit, Robert C., to G. D. Searle & Co. N-(arylthioalkyl)-aralkylamines. 3,162,687, 12–22–64, Cl. 260—570.5.
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Goldtrap, Charley L. 3,144,874.
Goldtrap, Charley L. 3,144,875.
Twersky, Louis S. Package opening means. 3,146,912, 9–1–64, Cl. 222—107.
Twibell, Lloyd J. Circulation line and side stream filter fuel system. 3,131,751, 5–5–64, Cl. 158—36.4.
Twigg, Lester A., Jr.: *See*—
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Aschauer, George R. 3,161,270.
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Schneider, Raymond C. 3,125,857.
Schneider, Raymond C. 3,145,535.
Shurts, Wilbur F., and Snoy. 3,155,040.
Twin Pane Corp.: *See*—
Gottesleben, Alvin H. 3,152,369.
Twinam, Joseph R.: *See*—
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Twomey, Jeremiah F. Weed killing composition and method. 3,157,485. 11–17–64, Cl. 71—2.4.
Twomey, Thomas J., to General Electric Co. Sound reducing means for internally supported transformer. 3,125,735, 3–17–64, Cl. 336—92.
Twyford, Robert H., to Atlantic Research Corp. Rocket nozzle. 3,146,589, 9–1–64, Cl. 60—35.55.
Twyman, Iverson L. Self-contained portable pulpwood loader. 3,127,005, 3–31–64, Cl. 198—173.
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Tyczkowski, Edward A.: *See*—
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Inman, Charles E., Oesterling, and Tyczkowski. 3,142,704.
Tydeman, Clarence W., to Tydeman Machine Works, Inc. Hydraulically operated tracer assembly for engine lathes. 3,145,597, 8–25–64, Cl. 82—14.
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Tydeman, Clarence W. 3,145,597.
Tydrand Corp., The: *See*—
Sutton, Robert W. 3,123,304.
Tye, Joseph F., B. W. Foss, and J. E. Stout, to Tokheim Corp. Header for submerged pump. 3,120,325, 2–4–64, Cl. 222—76.
Tye, Joseph F., and B. W. Foss, to Tokheim Corp. Motor fuel blender. 3,130,871, 4–28–64, Cl. 222—35.
Tygart, James C. Means for accurately treating soils in agricultural use. 3,127,069, 3–31–64, Cl. 222—238.
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Tyler, Hugh J., to Robertshaw Controls Co. Thermostat device with over temperature safety means. 3,143,620, 8–4–64, Cl. 200—140.
Tyler, John M., and T. G. Sofrin, to United Aircraft Corp. Noise suppression of fan engines. 3,137,131, 6–16–64, Cl. 60—35.6.
Tyler, Kingdon S., to Vitro Corp. of America. Animation device for making animated films and the like. 3,147,481, 9–1–64, Cl. 352—87.
Tyler, Merle D., to Hughes-Tyler Mfg. Co. Belt conveyors. 3,124,238. 3–10–64 Cl. 198—192.
Tyler, Ransom, to The Oilgear Co. Hydraulic transmission with load limiting speed control. 3,132,487, 5–12–64, Cl. 60—53.
Tyler, Robert R., to Mattox & Moore, Inc. Artificial insemination device. 3,160,156, 12–8–64, Cl. 128—236.
Tyler, Ronald A.: *See*—
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Tyler, Stanley R., to Dowty Fuel Systems Ltd. Fuel supply systems for spill burner nozzles. 3,126,942, 3–31–64, Cl. 158—36.3.
Tyler, Stanley R. Hydraulic supply systems. 3,128,822, 4–14–64, Cl. 158—36.3.
Tyler, Stanley R., to Dowty Fuel Systems Ltd. Liquid pressure supply system. 3,142,259. 7–28–64, Cl. 103—97.
Tyler, Stanley R., and J. M. Masterman, to Dowty Fuel Systems Ltd. Fuel system for twin spool gas turbine engine. 3,161,021, 12–15–64, Cl. 60—39.16.
Tyler, Tommy N., to Minneapolis-Honeywell Regulator Co. Electrical apparatus. 3,123,790, 3–3–64, Cl. 338—28.
Tyler, Trancy B., to AFA Corp. Powered liquid dispersing device. 3,119,562, 1–28–64, Cl. 239—318.
Tyler-Wayne Research Corp., The: *See*—
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Tyll, Alfred K. Water ski. 3,134,992, 6–2–64, Cl. 9—310.
Tyll, Charles. Instrument cases. 3,137,532, 6–16–64, Cl. 312—29.
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Tyma, Louis S., Jr., and G. R. Peabody, to Miehle-Goss-Dexter, Inc. Blanket lockup assembly. 3,127,834, 4–7–64, Cl. 101—415.1.
Tynan, Edward J., and M. W. Hales, to Chas. Pfizer & Co., Inc. Preparation of microbial milk-acidulating cultures for cheese-making. 3,142,575, 7–28–64, Cl. 99—116.
Tyree, Lewis, Jr. Pumping apparatus. 3,146,717, 9–1–64, Cl. 103—5.
Tyree, Lewis, Jr. Reciprocating pump. 3,150,602, 9–29–64, Cl. 103—153.
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Tyrrell Industries, Inc.: *See*—
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Tyrrell, Vincent C., to McCulloch Corp. Chain saw protector. 3,129,731, 4–21–64, Cl. 143—32.
Tyrrell, Wallace B., Jr., to Tyrrell Industries, Inc. Disposable dress shield and method of manufacture thereof. 3,145,391, 8–25–64, Cl. 2—56.
Tyrseck, Walter J., and R. A. Hackenberg, to Robertson Paper Box Co. Inc. Folding paper container. 3,145,836, 8–25–64, Cl. 206—46.
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Hensley, James L. 3,146,553.
Tyson, Charles H., and G. Werst, to Philco Corp. Support means for cathode ray tube gun assembly. 3,144,577, 8–11–64, Cl. 313—256.
Tyson, Charles W.: *See*—
Jahnig, Charles E., Silveston, and Tyson. 3,163,496.
Tyson, Charles W., to Esso Research and Engineering Co. Hydrotreating process and apparatus. 3,144,404, 8–11–64, Cl. 208—264.
Tyson, Charles W., to Esso Research and Engineering Co. Combination fluid coking and calcining. 3,158,566, 11–24–64, Cl. 208—127.
Tyson, George N., Jr., to Olin Mathieson Chemical Corp. Method for producing large volumes of gases in short periods of time. 3,137,993, 6–23–64, Cl. 60—35.4.
Tyson, George N., Jr., to Olin Mathieson Chemical Corp. Rocket propulsion method using boron and nitrogen compounds. 3,140,582, 7–14–64, Cl. 60—35.4.
Tyson, George N., Jr., to Olin Mathieson Chemical Corp. Preparation of decaborane. 3,152,867, 10–13–64, Cl. 23—204.
Tyson, Thomas P. Method of determining speed of a moving object. 3,117,487, 1–14–64, Cl. 88—16.
Tyson, Warren G., Jr.: *See*—
McDowell, Maurice J., and Tyson. 3,136,449.
Tytz, Richard T. Collapsible boat anchor. 3,123,038, 3–3–64, Cl. 114—208.
Tyzack, Donald E.: *See*—
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Tyzack, Donald E., and F. W. Hartley, to Electric & Musical Industries Ltd. Interpolating arrangements especially for the automatic control of machine tools. 3,154,674, 10–27–64, Cl. 235—151.
Tyzack, Harold, to Motorola, Inc. Distributor advance mechanism. 3,139,081, 6–30–64, Cl. 123—148.
Tyzack, Harold, to Motorola, Inc. Motor driven television tuner having safety switch preventing channel stepping while fine tuning. 3,159,782. 12–1–64, Cl. 334—21.
Uarco Inc.: *See*—
Peterson, Charles L. 3,146,927.
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Pine, Robert M., and Steidinger. 3,161,335.
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Uchida, Henry S., and G. T. Hefferan, to Callery Chemical Co. Production of hydrazine boranes. 3,119,652, 1–28–64, Cl. 23—14.
Uchida, Kazuo, A. Kuninaka, H. Yoshino, and M. Kibi, to Yamasa Shoyu Kabushiki Kaisha (also trading as Yamasa Shoyu Co., Ltd.) Process for the production of hypoxanthine derivatives. 3,118,820. 1–21–64, Cl. 195—28.
Uchida, Minoru: *See*—
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Uckotter, Joseph F.: *See*—
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Udelhofen, John H., to Standard Oil Co. N-aliphatic-N,N-di(alkyl monosuccinate)amine. 3,123,634, 3–3–64, Cl. 260—485.

Udelhofen, John H., to Standard Oil Co. Fuel oil composition. 3,146,079, 8–25–64, Cl. 44—63.
Udelhofen, John H., to Standard Oil Co. Imidazoline salt of citrimic acid as corrosion inhibitor for hydrocarbon fuel. 3,150,147, 9–22–64, Cl. 260—309.6.
Udell, Inc.: *See*—
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Van Antwerpen, Martin, and L. G. Freedy, to Vanant Co., Inc. Machine for folding and packing a sheet of cushioning material. 3,120,383, 2–4–64, Cl. 270—79.
Van Artsdalen, Earl F., J. Quinlan, and E. J. Vetter, to United States of America, Army. Metal-coated propellant granules. 3,140,659, 7–14–64, Cl. 102—38.
Van Assendelft, Leendert, J. W., I. Heijnis, P. K. Noordenbos, and H. Wormsbecher, to Onderzoekingsinstituut Research, N.V. Apparatus for false-twisting thermoplastic yarn. 3,154,906, 11–3–64, Cl. 57—34.
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Van Auwelaer, Albert J., J. A. Anderson, and J. L. French, to Deere & Co. Backhoe. 3,120,897, 2–11–64, Cl. 214—138.
Van Baarn, Paul S., to Etudes Recherches Developpements, E.R.D., S.A. Container structures. 3,131,824, 5–5–64, Cl. 215—41.
Van Baarn, Paul S., to Etudes Recherches Developpements, E.R.D., S.A. Closure for tubes and the like. 3,131,836, 5–5–64, Cl. 222—521.
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Van Billiard, Lewis H., to United States of America, Navy. Torpedo ballast release. 3,141,434, 7–21–64, Cl. 114—20.
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Van Blarcom, James P., Jr., to International Telephone and Telegraph Corp. Submersible motor-pump unit. 3,153,382, 10–20–64, Cl. 103—87.
Van Bosse, John G., to Automatic Electric Laboratories, Inc. Electronic switching system. 3,133,154, 5–12–64, Cl. 179—18.
Van Brunt, Le Roy C., to Westinghouse Electric Corp. Apparatus for dispensing articles alternately from two adjacent columns. 3,158,289, 11–24–64, Cl. 221—116.
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Van Cakenberghe, Jean L., and W. De Sutter, to Union Carbide Corp. Photosensitive compositions and process for the production thereof. 3,135,704, 6–2–64, Cl. 252—501.
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Van Dalen, Christiaan J., to de Staat der Nederlanden, ten dere Vertegenwoordigd door de Directeur-Generaal der Posterijen, Telegrafie en Telefonie. Device for elevating and sorting flexible sheets. 3,161,292, 12–15–64, Cl. 209—72.

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Vandeberg, Johannes H. W., to Naamloze Vennootschap: Echfa,Voorheen Enschedesche Chemotechnische Handelsonderneming en Fabriek N.V. Attaching means carrying a container containing a disinfecting and air-purifying medium that is to be atomized. 3,126,130, 3–24–64, Cl. 222—180.

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Van de Bilt, Pieter A., to Metaverpa, N.V. Packaging machine. 3,146,695, 9–1–64, Cl. 100—4.

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Vandenberg, Edwin J., to Hercules Powder Co. Polymeric epoxides. 3,135,706, 6–2–64, CCl. 260—2.

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Vandenberg, Edwin J., to Hercules Powder Co. Polymeric epoxides. 3,158,581, 11–24–64, Cl. 260—2.

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Van den Broek, Lourens, and P. G. J. van Spyk, to The Standard Advertising Tape Co., Ltd. Fastening devices. 3,121,-270, 2–18–64, Cl. 24—74.

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Vanderkooi, William N., and R. A. Mock, to The Dow Chemical Co. Polymerization of styrene sulfonic acid and salts thereof. 3,123,589, 3–3–64, Cl. 260—79.3.

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Van der Lely, Cornelis and A., to C. van der Lely, N.V. Device for spreading granular or powdery material. 3,120,-379, 2–4–64, Cl. 259—134.

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Van Doorn, Willem, to North American Philips Co., Inc. Marginal monitoring device. 3,159,772, 12–1–64, Cl. 317—148.5.
Van Doorne, Hubertus J. Centrifugal clutch with leading and trailing shoe. 3,144,110, 8–11–64, Cl. 192—105.
Van Doosselaere, Guy V. C. Plants for washing and defiberizing fibrous material. 3,154,464, 10–27–64, Cl. 162—26.
Van Doren, Fred M., and G. A. Van Doren, Jr. Timing device for timing switches. 3,120,586, 2–4–64, Cl. 200—35.
Van Doren, George A., Jr.: *See*—
Van Doren, Fred M., and G. A. Van Doren, Jr. 3,120,586.
Van Dormael, André E., J. M. Nys, and H. Depoorter, to Gevaert Photo-Producten N.V. Triarylphosphonium cyclopentadienylide methine dyes and photographic emulsions sensitized therewith. 3,143,544, 8–4–64, Cl. 260—240.
Van Dorn, Warren G., to Xerox Corp. Xerographic fixing apparatus. 3,132,047, 5–5–64, Cl. 118—65.
Van Dorp, David A., and D. van der Steen, to Lever Brothers Co. Acetylenically unsaturated alcohols. 3,143,554, 8–4–64, Cl. 260—345.9.
Van Doros, Thomas D., to The General Tire & Rubber Co. Hoisting devices. 3,131,961, 5–5–64, Cl. 294—83.
Van Dorsten, Adrianus C., and A. J. J. Franken, to North American Philips Co., Inc. Electron microscope specimen holder positioned between a pair of temperature controlled apertured plates. 3,124,680, 3–10–64, Cl. 250—49.5.
Van Dresser Specialty Corp.: *See*—
Doerer, Richard P. 3,132,352–56.
Reed, Clair S. 3,134,988.
Reed, Clair S. 3,134,989.
Reed, Clair S. 3,137,489.
Reed, Clair S. 3,137,490.
Van Driesen, Roger P.: *See*—
Guzman, Luis H., and Van Driensen. 3,124,518.
Van Driesen, Roger P., to Cities Service Research and Development Co. Hydrocracking of heavy hydrocarbon oils with the use of a thermal hydrocracking-multistage fractionation zone. 3,136,712, 6–9–64, Cl. 208—58.
Van Duijvendijk, Tonny, and G. van Essen. Safety belt. 3,125,376, 3–17–64, Cl. 297—389.
Van Dusen & Co., Inc.: *See*—
Van Dusen, Frederick E. 3,125,991.
Wolfe, Walter W., and Hofteig. 3,159,143.
Van Dusen, Frederick E., to Van Dusen & Co., Inc. Stanchion feeding and bedding apparatus. 3,125,991, 3–24–64, Cl. 119—56.
Van Dusen, Harold A., Jr.: *See*—
Jablonski, Edward R., and Van Dusen. 3,156,418.
Schraith, Edward F., and Van Dusen. 3,163,366.
Van Dusen, Laurence W., to Mission Industries. Valet stand and garment hanger. 3,150,776, 9–29–64, Cl. 211—1.
Van Duuren, Hendrik C. A., C. J. van Dalen, and H. de Silva, to De Staat der Nederlanden ten Deze Vertegenwoordigd door de Directeur-Generaal der Posterijen, Telegrafie en Telefonie. System for establishing and maintaining synchronism in duplex telegraph system. 3,156,767, 11–10–64. Cl. 178—58.
Van Duuren, Kars: *See*—
Spaa, Jacob H., and van Duuren. 3,140,396.
Van Duyne, Fred, to Mebrose Wire Products, Inc. Knockdown display stand. 3,132,747, 5–12–64, Cl. 211—177.
Van Duyne, Robert J., and R. W. Smith, to General Motors Corp. Spark plug with improved electrode. 3,146,370, 8–25–64, Cl. 313—118.
Van Dyk, John W.: *See*—
Cardinal, Anthony J., Edens, and Van Dyk. 3,142,665.
Van Dyk, Victor R. Packing roller attachment for a planter. 3,124,202, 3–10–64, Cl. 172—551.

Van Dyke, Bruce E., G. V. Richards, and R. G. Kadleck, to Container Corp. of America. Collapsible holder for dispensing rolled sheet material. 3,121,542, 2–18–64, Cl. 242—55.53.
Van Dyke, Lowell B.: *See*—
Miller, Jack M., Scott, Grafton, and Van Dyke. 3,122,-869.
Van Dyke Tiers, George, to Minnesota Mining and Mfg. Co. 2,2-dimethyl-2-silaalkane-sulfonic acids and their salts. 3,141,898, 7–21–64, Cl. 260—448.2.
Vaněk, Zbyněk: *See*—
Tichý, Jan, and Vaněk. 3,117,667.
Van Eck, Arthur T. Cam operated switching mechanism. 3,136,870, 6–9–64, Cl. 200—38.
Van Eijk, Herman J., to North American Philips Co., Inc. Wire winding device. 3,126,165, 3–24–64, Cl. 242—80.
Van Eldik, Jan, to Crompton & Knowles Corp. Tractor-type stock fed. 3,143,269, 8–4–64, Cl. 226—172.
Van Embden, Hendrik J. M., to North American Philips Co., Inc. Solder tip. 3,157,143, 11–17–64, Cl. 113—111.
Van Emden, Bernard, to Automation Development Corp. Electrical signal control system. 3,121,054, 2–11–64, Cl. 204—228.
Van Emden, Bernard, to Automation Development Corp. Three phase controller using sequence switching. 3,127,548, 3–31–64, Cl. 318—254.
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Lindemann, Waldemar, and van Endert. 3,141,401.
Van Endert, Fritz, to W. Lindemann. Press having automatic bend detector. 3,146,819, 9–1–64, Cl. 153—50.
Van Esdonk, Johannes: *See*—
Van Barneveld, Evert J., Lemmens, Vrijssen, Budgen, van Roosmalen, and van Esdonk. 3,121,181.
Van Ess, Fred C.: *See*—
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Van Essen, Gerrit: *See*—
Van Duijvendijk, Tonny, and Van Essen. 3,125,376.
Van Fossen, Harvey G., and F. D. Hall, to The Wheelabrator Corp. Continuous vibrator for surface treatment of parts. 3,148,483, 9–15–64, Cl. 51—7.
Van Gerwen, Petrus J., to North American Philips Co., Inc. Speech signal transmission system. 3,142,727, 7–28–64, Cl. 179—15.55.
Van Geuns, Johannes R., to North American Philips Co., Inc. Device for fractionating gas. 3,129,081, 4–14–64, Cl. 62—37.
Van Gils, Gerard E., to The General Tire & Rubber Co. Reaction product of a graft polymer of acrolein. 3,119,-785, 1–28–64, Cl. 260—45.5.
Van Gorder, Norman, and A. F. Caprio, to Celanese Corp. of America. Solutions of polymers in solvent comprising antimony trichloride and process for preparing same. 3,154,-509, 10–27–64, Cl. 260—29.1.
Van Graas, Dick H.: *See*—
Schliekelmann, Robert J., Van Graas, and Van Poppelen. 3,119,254.
Vanguard Abrasive Corp.: *See*—
Benson, Donald H. 3,128,755.
Van Gundy, Donald A.: *See*—
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Van Haaften, Egbert, to Bulova Watch Co., Inc. Tuning fork for electronic timepiece. 3,162,006, 12–22–64, Cl. 58—23.
Van Hartesveldt, Carroll H., and B. D. Wahl, to Hoover Ball and Bearing Co. Heater for continuous molding machine. 3,148,269, 9–8–64, Cl. 219—243.
Van Hartesveldt, Carroll H., and B. D. Wahl, to Hoover Ball and Bearing Co. Hammer board for drop forge hammer. 3,157,069, 11–17–64, Cl. 78—25.
Van Hartesveldt, Carroll H., and B. D. Wahl, to Hoover Ball and Bearing Co. Laminated board and method of making the same. 3,159,526, 12–1–64, Cl. 161—261.
Van Hecke, Christine M. Self-locking fastener. 3,144,066, 8–11–64, Cl. 151—7.
Van Hecke, George J., to Huck Mfg. Co. Nose assembly. 3,116,848, 1–7–64, Cl. 218—42.
Van Hecke, George J., to Huck Mfg. Co. Crimp lock pull nose assembly. 3,143,903, 8–11–64, Cl. 78—46.
Van Helden, Robert: *See*—
Ter Borg, Arne P., Van Helden, and Bickel. 3,126,397.
Van Helden, Robert, G. Verberg, and B. Balder, to Shell Oil Co. Polynuclear aromatic compounds. 3,145,237, 8–18–64, Cl. 260—670.
Van Hemel, Raymond W., to Pearce, Wesley. Educational device. 3,118,236, 1–21–64, Cl. 35—48.
Van Heusen, Lewis J. Method and apparatus for de-icing submarine snorkels. 3,139,054, 6–30–64, Cl. 114—16.
Van Hirtum, Martinus J.: *See*—
Lenders, Wilhelmus L. L., van Hirtum, and de Cock. 3,133,627.
Van Hoene, Harry L., to Denison Research Foundation. Gear motor. 3,151,526, 10–6–64, Cl. 91—68.
Van Hoesen, Harold E.: *See*—
Hall, Herbert J., Van Hoesen, and White. 3,147,094.
Van Hoof, Albert E., to Gevaert Photo-Producten N.V. Method for preparing spirit duplicating masters. 3,159,484, 12–1–64, Cl. 96—28.
Van Hoof, Albert E., and J. F. Willems, to Gevaert Photo-Production N.V. Manufacture of photographic gelatin relief images. 3,129,097, 4–14–64, Cl. 96—28.
Van Hoof, Albert E., and G. A. Holvoet, to Gevaert Photo-Producten N.V. Spirit duplicating process. 3,159,485, 12–1–64, Cl. 96—28.
Van Hoof, Albertus J. F. M., M. J. G. Knapen, and H. P. Stal, to North American Philips Co., Inc. Method of fastening connecting wires to electrical component parts. 3,121,-279, 2–18–64, Cl. 29—155.5.
Vanhoof, Pierre M., to Manufacture de Produits Pharmaceutiques A. Christiaens Societe Anonyme. 9-cyano-(1H)-indeno [2,1-d]-pyrimidienes and method of preparation. 3,133,922, 5–19–64, Cl. 260—251.
Van Hoose, William E. Torque limiting wrench. 3,137,187, 6–16–64, Cl. 81—52.4.
Van Hoose, William E., to Pendleton Tool Industries, Inc. Predetermined torque release wrench. 3,140,623, 7–14–64, Cl. 81—52.4.
Van Horn, John A., to Hamilton Watch Co. Automatic regulator. 3,116,593, 1–7–64, Cl. 58—85.5.
Van Horn, John A., to Hamilton Watch Co. Automatic regulator mechanism for timepiece. 3,116,594, 1–7–64, Cl. 58—85.5.
Van Horn, John A., to Hamilton Watch Co. Limited automatic regulating mechanism for a timepiece. 3,140,578, 7–14–64, Cl. 58—85.5.
Van Horne, William E., G. W. Barnett, and M. F. Goddard, to Keinath Instrument Co. Multiple graph recorder-annunciator. 3,149,900, 9–22–64, Cl. 346—17.
Van Houwelingen, Hendrik, to Lichtdrukpapierfabriek de Atlas, N.V. Exposure device. 3,120,162, 2–4–64, Cl. 95—73.
Van Huis, Robert L., to Automatic Poultry Feeder Co. Corner post assembly. 3,147,853, 9–8–64, Cl. 198—204.
Van Huyzen, Jacques L., to Chemo-Vive Processes, Inc. Apparatus for processing blankets. 3,150,468, 9–29–64, Cl. 51—38.
Vanik, Milton C., to W. R. Grace & Co. Method of doping semiconductor materials. 3,162,526, 12–22–64, Cl. 75—65.
Vanik, Milton C., M. G. Sanchez, and J. E. Herrera, to W. R. Grace & Co. Process of making a thermistor. 3,140,531, 7–14–64, Cl. 29—155.5.
Vanik, Milton C., M. G. Sanchez, and E. G. Acker, to W. R. Grace & Co. Method of preparing the fuel elements of a liquid homogeneous reactor. 3,151,086, 9–29–64, Cl. 252—301.1.
Van Inwagen, Charles L., Jr., to United States of America, Navy. Target indicating systems. 3,121,226, 2–11–64, Cl. 343—10.
Vaniscotte, Christian: *See*—
Lefrancois, Bernard, Sack, Vaniscotte, and Dirian. 3,133,793.
Van Jaarsvelt, Willem A. J.: *See*—
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Van Katwijk, Dirk: *See*—
Van der Schoot, Jelle. 3,126,993.
Van-Kay, Inc.: *See*—
Pinter, George A., and Walter. 3,157,387.
Van Keuren, Robert G., and T. M. Cole, to Norton Co. Abrasive sectors and mounting apparatus. 3,117,603, 1–14–64, Cl. 146—182.
Vanko, John. Mast mounting for television antennas. 3,157,-253, 11–17–64, Cl. 189—28.
Van Koot, Eduard J., to Tor-Isteg Steel Corp S.A. H. Reinforcing bar. 3,123,941, 3–10–64, Cl. 50—527.
Van Koppen, Christianus W. J., and F. J. Fontein, to Stamicarbon N.V. Process and apparatus for rinsing fine particles covered with a suspension. 3,147,212, 9–1–64, Cl. 209—17.
Van Krevelen, Edward R., and N. G. Horning, to Litton Systems Inc. Terrain clearance system. 3,152,230, 10–13–64, Cl. 343—5.
Van Laethem, Adolf. Method for manufacturing knitted nets and products obtained thereby. 3,118,294, 1–21–64, Cl. 66—193.
Van Landingham, Leander S., Jr.: *See*—
Hill, Van B. 3,160,437.
Van Lanigan, Louis R. Mouth evacuator. 3,124,879, 3–17–64, Cl. 32—33.
Van Lanigan, Louis R. Tongue guard for dental appliances. 3,148,449, 9–15–64, Cl. 32—33.
Van Luik, Frank W., Jr., to General Electric Co. Surface combustion apparatus for flame charging. 3,124,719, 3–10–64, Cl. 317—3.
Van Luik, Frank W., Jr., and S. B. Dunham, to General Electric Co. Method and apparatus for detecting gases or vapors. 3,117,841, 1–14–64, Cl. 23—232.
Van Maasdam, Cornelius P., and J. S. Polkowske. Batch measuring container. 3,134,521, 5–26–64, Cl. 222—443.
Van Munster, Lourens B., to Vometec N.V. Method of mixing materials and a pneumatic mixing device adapted to said method. 3,159,383, 12–1–64, Cl. 259—4.
Van Muylwijk, Arend J.: *See*—
Quaadgras, Dirk, and van Muylwijk. 3,131,853.
Vann, Courtney H., to The National Cash Register Co. Print hammer anti-rebound mechanism. 3,143,064, 8–4–64, Cl. 101—93.
Van Name, Horace A., ½ to John J. Dougherty. Removable form for concrete jacket. 3,159,898, 12–8–64, Cl. 25—118.
Van Name, Joseph M., and G. A. Zimmerman, to A. B. Chance Co. Tubular structures. 3,158,224, 11–24–64, Cl. 182—46.
Vannel, Paul, to Societe Nationale des Petroles d'Aquitaine. Process for the production of ethylene sulphide. 3,148,197, 9–8–64, Cl. 260—327.

Van Ness, Allan E., Jr., and J. S. Fischer, to Schlumberger Well Surveying Corp. Formation testing systems. 3,121,459, 2–18–64, Cl. 166—3.

Van Ness, John H., to Monsanto Co. Free-flowing fumaric and adipic acid compositions. 3,151,986, 10–6–64, Cl. 99—78.

Van Nest, Arden L.: *See*—
Spanke, Theodore A., and Van Nest. 3,135,123.

Van Niel, Cornelis B.: *See*—
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Van Noord, Andrew J., to Fort Recovery Industries, Inc. Trip lever structure. 3,162,060, 12–22–64, Cl. 74—523.

Van Nostrand, Walter L., Jr.: *See*—
Gallagher, James A., La Motta, and Van Nostrand. 3,125,549.

Vanns, Jimmy G.: *See*—
Herschkowitz, Otto, Woodard, and Vanns. 3,153,197.

Vannucci, Frank N. Incendiary material. 3,126,259, 3–24–64, Cl 44—7.

Van Ostrom, David L.: *See*—
Schniers, Robert C., and Van Ostrom. 3,161,740.

Van Pappelendam, Carl A., to North American Aviation, Inc. Method of fabricating structural sandwiches. Re. 25,704, 12–22–64, Cl. 29—455.

Van Patten, Royal A., to Ford Motor Co. Molding (mold). 3,138,835, 6–30–64, Cl. 22—131.

Van Peursem, Marvin D., to Sperry Rand Corp. Material distributor and animal stock feeder. 3,149,610, 9–22–64, Cl. 119—51.

Van Peursem, Marvin D., to Sperry Rand Corp. Feeder. 3,155,286, 11–3–64, Cl. 222—166.

Van Peursem, Marvin D., and A. M. Best, to Sperry Rand Corp. Stock feeder. 3,125,990, 3–24–64, Cl. 119—52.

Van Pool, Joe, to Phillips Petroleum Co. Feed device for moving bed catalytic process. 3,131,031, 4–28–64, Cl. 23—288.

Van Poppel, Albertus, to Vennootschap onder firma Handelsonderneming Gebr. van Poppel. Stop valve and burner for liquefied gas. 3,118,295, 1–21–64, Cl. 67—7.1.

Van Poucke, Raphael K.: *See*—
De Cat, Arthur H., Van Poucke, and Verbrugghe. 3,138,604.

Van Praet, Alphonse, to Union des Verreries Mecaniques Belges. Device for the protection of floats in glass making. 3,137,559, 6–16–64, Cl. 65—343.

Van Renssen, Marinus, to Radio Corp. of America. Friction device and method. 3,127,186, 3–31–64, Cl. 279—2.

Van Rhijn, Wilhelmus J.: *See*—
Wilders, Johannes H. A., and van Rhijn. 3,140,181.

Van Roojen, Jan, to The Ingersoll Milling Machine Co. Expansible mandrel. 3,130,978, 4–28–64, Cl. 279—4.

Van Roosmalen, Johannes H. T.: *See*—
Van Barneveld, Evert J., Lemmens, Vrijssen, Budgen, van Roosmalen, and van Esdonk. 3,121,181.

Van Run, Adrianus M. J. G., to North American Philips Co., Inc. Method of, and apparatus for moving-zone heat treatment of materials. 3,124,633, 3–10–64, Cl. 13—1.

Van Saan, Willy, to Societe Industrielle de Brevets et d'Etudes (S.I.B.E.). Automatic devices for controlling the starting means in internal combustion engine carburetors. 3,161,787, 12–15–64, Cl. 310—4.

Van Sandwyk, Johannes, to General Dynamics Corp. Direct current controlled bridge type attenuator. 3,159,796, 12–1–64, Cl. 330—138.

Van Sant, Robert H. Lure for game fish. 3,124,891, 3–17–64, Cl. 43—26.2.

Van Santen, Johannes G.: *See*—
De Haan, Edward F., Van Santen, Duinker, Diemer, and Tummers. 3,163,851.
Diemer, Gesinus, Joormann, Van Santen, and Boter. 3,117,232.
Duinker, Simon, Diemer, De Haan, and Van Santen. 3,142,819.

Van Santen, Johannes G., and H. Koelmans, to North American Philips Co., Inc. Crossed-parallel-conductors system using electroluminescent and photoconductive layers. 3,152,257, 10–6–64, Cl. 250—209.

Van Saun, Richard W., to Hewlett-Packard Co. Receiver signal locking apparatus using trigger circuit in control loop. 3,150,322, 9–22–64, Cl. 325—420.

Van Schoick, Ivan. Revolver loader. 3,150,459, 9–29–64, Cl. 42—89.

Van Schoor, Albert: *See*—
Hahn, Heinrich, Mohr, and Van Schoor. 3,152,169.

Van Schwartz, Zolly C., to Majestic Wax Co. Floor cleaning device, mop and mop holder. 3,162,887, 12–29–64, Cl. 15—561.

Van Sciver, Herbert D., II, to The Budd Co. Dispensing device for mixing two viscous fluids. 3,159,312, 12–1–64, Cl. 222—137.

Van Sciver, Herbert D., II, J. J. MacKinney, and R. P. Hurlebaus, to The Budd Co. Helically-formed sandwich tubing. 3,131,726, 5–5–64, Cl. 138—142.

Van Scoy, Davis A., and G. M. Ford, Jr., to F. H. Maloney Co. Pipeline pig detector. 3,145,274, 8–18–64, Cl. 200—61.41.

Van Scoyoc, James N.: *See*—
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Van Sickle, James D., to Richardson Mfg., Inc. Frame for agricultural implement. 3,132,700, 5–12–64, Cl. 172—407.

Van Silfhout, Jan: *See*—
Van Dijk, Pieter, and van Silfhout. 3,156,084.

Van Skyock, Vaughn E. Combination golf bag and cart. 3,150,881, 9–29–64, Cl. 280—41.

Van Slooten, Louis J., to General Motors Corp. Horizontal hydraulic valve lifter. 3,139,078, 6–30–64, Cl. 123—90.

Van Slooten, Louis J., to General Motors Corp. Push rod with ball check valve. 3,144,010, 8–11–64, Cl. 123—90.

Van Slooten, Louis J., to General Motors Corp. Hydraulic lash adjuster. 3,153,404, 10–20–64, Cl. 123—90.

Van Slyke, Francis J. Track-laying vehicle. 3,131,781, 5–5–64, Cl. 180—6.7.

Van Staaden, Cornelis A., to Hollandse Signaalapparaten, N.V. Gating system with manually variable delay. 3,131,389, 4–28–64, Cl. 343—7.3.

Van Staaden, Cornelis A., to Hollandse Signaalapparaten, N.V. Gating system for an apparatus measuring distance by means of pulse echoes. 3,147,475, 9–1–64, Cl. 343—7.3.

Van Spyk, Piet G. J.: *See*—
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Van Steenhoven, Frank, to Holophane Co., Inc. Lighting fixture. 3,158,330, 11–24–64, Cl. 240—147.

Vansteenkiste, Georges, to Ateliers de Constructions Electriques de Charleroi, (ACEC). Device for detecting shorted semi-conductor cells in rectifiers. 3,163,801, 12–29–64, Cl. 317—14.

Van Strien, Richard E., and B. A. Bolton, to Standard Oil Co. Preparation of monoesters of trimellitic acid. 3,130,220, 4–21–64, Cl. 260—475.

Van Syoc, Auburn G., Sr., to Rem Corp. Folding furniture article. 3,120,976, 2–11–64, Cl. 297—60.

Van Syoc, Auburn G., Sr., to Rem Corp. Latch. 3,126,189, 3–24–64, Cl. 248—188.

Van Thienen, Andreas D., to Hunter Douglas International (Quebec) Ltd. Venetian blind cord guide. 3,130,776, 4–28–64, Cl. 160—178.

Van Thuong, Truong: *See*—
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Van Tillo, Franciscus M., to Stamicarbon N.V. Apparatus to measure the reflection coefficient with respect to a reference measurement of a material when conveyed past a radiation source. 3,144,556, 8–11–64, Cl. 250—83.3.

Van Tol, Hendrikus J. M., G. H. P. Alma, L. W. Loeffen, and C. P. Klopping, to North American Philips Co., Inc. Electronic valve with co-planar anode and shield sections. 3,119,945, 1–28–64, Cl. 313—293.

Van Tol, Hendrikus J. M., and E. S. Den Dulk, to North American Philips Co. Inc. Grid electrode. 3,141,991, 7–21–64, Cl. 313—350.

Van Tress, Charles G., and J. B. Wilken. Dirigible ski sled. 3,147,019, 9–1–64, Cl. 280—16.

Van Twisk, Richard J.: *See*—
Larkin, James R., and Van Twisk. 3,142,094.

Van Uitert, Le Grand G.: *See*—
Ballman, Albert A., Linares, and Van Uitert. 3,152,085.

Van Velzen, Daniël, to Shell Oil Co. Certain 1,3-bis(heterocyclylimino)isoindolines. 3,129,227, 4–14–64, Cl. 260—306.8.

Van Venrooy, John J.: *See*—
Borkowski, Walter L., and Van Venrooy. 3,131,027.

Van Volkenburgh, Ross, to Copolymer Rubber & Chemical Corp. Improved apparatus for passing material into a pressure vessel in response to the internal pressure thereof. 3,131,033, 4–28–64, Cl. 23—289.

Van Warmerdam, Joannes C., to North American Philips Co., Inc. Grid electrode having particula. 3,151,264. 9–29–64, Cl. 313—311.

Van Waveren, Marius. Method for treating windflower bulbs, for their preservation, transportation and subsequent planting with a view to furthering the development of the flowers. 3,146,548, 9–1–64, Cl. 47—58.

Van Wilgen, Jacob: *See*—
Leenhouts, Albert C., van Wilgen, Lampe, and Nijmeyer. 3,161,835.

Van Winsen, Friedrich H., to Daimler-Benz Aktiengesellschaft. Remote controlled fluid-shock-absorber for vehicles. 3,146,862. 9–1–64, Cl. 188—88.

Van Winsen, Friedrich H., to Daimler-Benz Aktiengesellschaft. Brake force regulating device for vehicles especially those with pneumatic springs. 3,162,491, 12–22–64, Cl. 303—6.

Van Witteloostuyn, Arend C., to Hunter Douglas International Corp. Apparatus for forming lips in strip-like material. 3,128,816, 4–14–64, Cl. 153—2.

Van Wye, William J.: *See*—
Sabin, Eugene R., and Van Wye. 3,163,326.

Van Wyk, Adrian: *See*—
Fant, William J., and Van Wyk. 3,157,969.

Van Zee, Arthur F., to Owens-Illinois Glass Co. Method of joining glass components by radiant energy. 3,120,433, 2–4–64, Cl. 65—43.

Van Zelm Associates Inc.: *See*—
Jackson, Martin A. 3,132,721.

Van Zonneveld, Pieter, and F. B. J. Wiegman, to North American Philips Co., Inc. Glass feeder intended for a continuous, upward supply of glass to a system for drawing glass tubes or rods. 3,126,269, 3–24–64, Cl. 65—191.

Van Zoonen, Dick: *See*—
Choufoer, Johannes H., de Ruiter, and van Zoonen. 3,161,697.

Vapor Corp.: *See*—
Haskett, Lester E. 3,148,830.
Lynn, Robert J. 3,116,805.
Myrent, Harry L., and Szczesniak. 3,148,255.

Vaporec, Inc.: *See*—
D'Angelo, Vito, Gordon, and Blaufarb. 3,134,652.
Varacalli, James. Garage door sealing device. 3,159,205, 12–1–64, Cl. 160—209.
Varaud, Claude, to Industrial-Holding-Establishment. Projectile fuze. 3,148,621, 9–15–64, Cl. 102—74.
Vard Division, Royal Industries: *See*—
Cole, Robert R. 3,132,719.
Vardanega, Virgilio, to I.C.P.M. Industrie Chimiche Porto Marghera S.p.A. Dispenser for the discharge of bulk material from gas-tight containers. 3,134,511, 5–26–64, Cl. 222—167.
Varel Mfg. Co., Inc.: *See*—
Bronson, Charles L. 3,139,946.
Varga, André, to Carding Specialists (Canada) Ltd. Carding machines. 3,145,425, 8–25–64, Cl. 19—98.
Vargady, Leslie O., to Bausch & Lomb Inc. Moire fringe constructions including a phase change. 3,145,250, 8–18–64, Cl. 88—1.
Vargady, Leslie O., to Bausch & Lomb Inc. Mirror system. 3,153,689, 10–20–64, Cl. 88—14.
Vargha, László, M. Rados, E. Kasztreiner, and L. Szporny, to Richter Gedeon Vegyeszeti Gyar RT. 3,16-diamino-3,5-pregnadienes and process for preparing same. 3,125,570, 3–17–64, Cl. 260—239.5.
Vargha, László, and B. Dumbovich, to Gyogyszeripari Kutato Laboratorium. 1,6-bis-(beta-chloro-ethylamino)-1,6-dides-oxy-D-mannitol and its dichlorohydrate. 3,152,147, 10–6–64, Cl. 260—340.9.
Vargo, Louis M. Isometric contraction exercise apparatus having a rotatable upper member for adjusting the length of the connecting cords. 3,117,781, 1–14–64, Cl. 272—79.
Varian Associates: *See*—
Abrams, Irwin L., Harra, and Rivera. 3,150,819.
Anderson, Weston A. 3,147,428.
Bell, William E. 3,158,803.
Brand, William J., and Sullivan. 3,134,933.
Brown, Lawrence E., and Nunan. 3,133,227.
Brunn, John. 3,118,082.
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Dehmelt, Hans G. 3,150,313.
De Pue, James M., Jr., Hendricsen, Oaks, and Triftshouser. 3,117,251.
Foss, David W. 3,119,083.
Foss, David W. 3,121,205.
Francis, Arthur B., Barrington, and Helmer. 3,117,224.
Gielow, David E., and Wright. 3,127,556.
Helmer, John C. 3,159,333.
Heninger, Grant O. 3,122,711.
Jepsen, Robert L. 3,117,247.
Jepsen, Robert L. 3,144,616.
Jepsen, Robert L. 3,147,910.
Jepsen, Robert L. 3,149,774.
Jepsen, Robert L., King, and Rogers. 3,116,764.
Jepsen, Robert L., Lloyd, and Ackley. 3,150,817.
Jepsen, Robert L., and Malter. 3,161,802.
Kane, Ralph W., Nelson, and Rogers. 3,150,295.
Kraeuter, Lincoln D. 3,143,703.
Lloyd, William A. 3,157,808.
Lloyd, William A., and Rutherford. 3,141,986.
Lloyd, William A., and Zaphiropoulos. 3,156,406.
Mandoll, Harry A., and Rorden. 3,118,103.
Mann, Joseph K. 3,125,701.
McEuen, Albert H., Dye, Heninger, and Oxner. 3,138,757.
Nelson, Walter E. 3,122,669.
Packard, Martin E., Bloom, and Bell. 3,129,389.
Pearsall, Cortland S. 3,132,044.
Pfeiffer, Harry F. 3,157,955.
Rempel, Robert C., Ward, Sullivan, St. Clair, and Weaver. 3,122,703.
Ruddock, Kenneth A., Ilsen, and Laich. 3,123,766.
Rutherford, Sherman L. 3,159,332.
St. Clair, Maurice W., and Grande. 3,119,082.
Salisbury, Frederick L. 3,134,160.
Schiffman, Bernard M. 3,158,811.
Schmidt, Robert C. 3,132,280.
Schonberg, Russell G. 3,119,968.
Schonberg, Russell G., Nunan, and Brown. 3,144,552.
Sleeper, Harold A. 3,140,416.
Sleeper, Harold A. 3,147,450.
Street, Eugene L. 3,136,919.
Street, Eugene L., and Sleeper. 3,147,395.
Sullivan, John W. 3,142,777.
Varian, Russell H. 3,147,427.
Ward, Curtis E. 3,125,734.
Whitehorn, Richard M. 3,159,797.
Zaphiropoulos, Renn, and Lloyd. 3,125,283.
Varian, Russell H., to Varian Associates. Gyromagnetic resonance filter and amplitude limiter. 3,147,427, 9–1–64, Cl. 324—5.
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Sargent, Le Roy H. 3,129,634.
Stewart, Alfred W. 3,128,943.
Variperm Co.: *See*—
Bailly, Florent H. 3,140,744.
Varityper Corp.: *See*—
Billet, Edward H. 3,137,573.
Varkala, Joseph C. Collapsible basket. 3,144,159, 8–11–64, Cl. 220—6.
Varkala, Joseph C. Lockable rack for elongate articles. 3,160,278, 12–8–64, Cl. 211—74.
Varlese, Rocco S., and J. R. Miller, Jr. Art collector's game. 3,148,885, 9–15–64, Cl. 273—134.
Varlet, Pierre P. W., to Societe Anonyme des Usines Chausson. Heat hardenable polyester resin coating. 3,133,826, 5–19–64, Cl. 117—62.2.
Varlonga, Giovanni. Panel heating element. 3,137,343, 6–16–64, Cl. 165—129.
Varlonga, Giovanni. Panel construction for covering walls and the like. 3,149,436, 9–22–64, Cl. 50—202.
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Kietz, Erhard K., and Varnell. 3,131,384.
Varner, Donald E., to Industrial Nucleonics Corp. Control system. 3,146,910, 9–1–64, Cl. 222—55.
Varner, Donald E., to The Industrial Nucleonics Corp. Method and means for measuring hardness. 3,160,753, 12–8–64, Cl. 250—83.6.
Varner, Frank J. Small game holder. 3,137,030, 6–16–64, Cl. 17—44.2.
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Bayne, Robert T. 3,159,786.
Varrial, Ralph W., to Bell Aerospace Corp. Apparatus for forming pipe insulation sleeves. 3,121,253, 2–18–64, Cl. 18—5.
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Varron, Arleen S., and P. D. Whyzmuzis, to Interchemical Corp. Printing ink. 3,162,611, 12–22–64, Cl. 260—4.
Varta Aktiengesellschaft: *See*—
Bachmann, Fritz. 3,117,033.
Gruneberg, Gerhard, Kubisch, and Spengler. 3,121,031.
Horn, Lutz, and Philipp. 3,163,374.
Kroger, Hanns H., and von Doehren. 3,146,130.
Malischewski, Bernard. 3,123,654.
Tietze, Werner, and Peters. 3,119,722.
Varta Aktiengesellschaft and Siemens-Schuckert-Werke Aktiengesellschaft: *See*—
Van der Lely, Cornelis and A. 3,120,379.
Winsel, August, and Justi. 3,150,011.
Vartanian, Edwin S.: *See*—
Jarvis, Jay P., and Vartanian. 3,161,977.
Vartanian, Edwin S., and J. A. Badali, to Olin Mathieson Chemical Corp. Bolt assembly comprising a pivoted firing pin serving also as the ejector and an extractor. 3,142,923, 8–4–64, Cl. 42—25.
Vartanian, Edwin S., and J. A. Badali, to Olin Mathieson Chemical Corp. Bolt-lock-receiver and barrel assembly. 3,143,818, 8–11–64, Cl. 42—21.
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Varvel, Harold E., to Master Consolidated, Inc. Oil burner. 3,129,748, 4–21–64, Cl. 158—76.
Vasan, Srini, to Chemical Construction Corp. Method of purifying a hydrogen gas stream by passing said gas in series through 13X and 4A or 5A molecular sieves. 3,150,942, 9–29–64, Cl. 55—31.
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Vasel, Alfred W.: *See*—
Steele, Donald F., and Vasel. 3,122,638.
Vasel, Alfred W., to American Pyrotector, Inc. Liquid level determining devices and method. 3,120,125, 2–4–64, Cl. 73—293.
Vash, Arthur M., E. P. Little, and W. G. Perry, to Macalaster Scientific Corp. Electrical current-balance apparatus. 3,163,805, 12–29–64, Cl. 317—197.
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Kuehl, Donald K., and Vasquez. 3,129,562.
Vassallo, Donald A.: *See*—
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Justi, Eduard, and Friese. 3,126,273.
Vassar, Charles C. Height increasing devices for shoes. 3,124,887, 3–17–64, Cl. 36—81.
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Vasselli, Joseph A. Cycle indicator. 3,152,437, 10–13–64, Cl. 58—4.
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Delassus, Marcel, and Vasseur. 3,118,859.
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Vaughan, Howard A., Jr. 3,148,716.
Vaughan Co., Inc.: *See*—
Vaughan, James E. 3,155,046.
Vaughan, James E. 3,155,375.
Vaughan Crane Co. Ltd., The: *See*—
Lee, Samuel. 3,124,219.
Vaughan, Edgar D., Jr., to The Fly Ash Arrester Corp. Apparatus for separating foreign matter from air. 3,130,024, 4–21–64, Cl. 55—227.

Vaughan, Eric W.: *See*—
Perrins, Allen R., and Vaughan. 3,152,300.
Vaughan, Howard A., Jr., to Vaughan & Bushnell Mfg. Co. Impact tool with chip-resistant striking face. 3,148,716, 9–15–64, Cl. 145—29.
Vaughan, James E., to Vaughan Co., Inc. Centrifugal nonclogging pump. 3,155,046, 11–3–64, Cl. 103—103.
Vaughan, James E., to Vaughan Co., Inc. Farm manure collection and storage apparatus. 3,155,375, 11–3–64, Cl. 259—23.
Vaughan, James R., Jr.: *See*—
Gadekar, Shreekrishna M., Vaughan, and Selby. 3,123,-612.
Vaughan, Robert T., D. J. Weisel, and W. H. Scott, to Philco Corp. Jet electrolytic treating apparatus. 3,137,645, 6–16–64, Cl. 204—206.
Vaughan, Walter L., Jr., and B. J. Multari, to E. L. Post & Co., Inc. Dual grip device. 3,152,761, 10–13–64, Cl. 238—14.
Vaughn, Elijah J. Telephone loud-speaker combination. 3,156,771, 11–10–64, Cl. 179—1.
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Nye, Maurice A., and Bittman. 3,154,442.
Nye, Maurice A., and Bittman. 3,154,443.
Vaughn, Norris E.: *See*—
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Vaughn, Robert L., to Lockheed Aircraft Corp. High speed machining apparatus and method. 3,147,667, 9–8–64, Cl. 90—24.
Vaughn, Robert L., to Lockheed Aircraft Corp. Machining apparatus. 3,149,535, 9–22–64, Cl. 90—24.
Vaughn, Rudolph M. Hair curling device. 3,123,081, 3–3–64, Cl. 132—41.
Vaughn, Thomas H., to Union Carbide Corp. Process for the production of cis-3-haloacrylic compounds. 3,161,673, 12–15–64, Cl. 260—539.
Vaugoyeau, Alexandre, to Hutchinson (Compagnie Nationale du Caoutchouc) Etablissements. Rubber spring. 3,160,-407, 12–8–64, Cl. 267—35.
Vaugoyeau, Alexandre. Suspension system for vehicles. 3,162,465, 12–22–64, Cl. 280—124.
Vaurio, Frans V. E., to Customark Corp. Paper product with chemical watermark and means for making same. 3,140,959, 7–14–64, Cl. 117—38.
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Vdo Tachometer Werke Adolf Schindling G.m.b.H., FA: *See*—
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Vdoviak, John W., to United States of America, Air Force. Fuel nozzle. 3,129,891, 4–21–64, Cl. 239—405.
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Alford, Harvey E., and Veatch. Re. 25,564.
Alford, Harvey E., and Veatch. 3,133,821.
Foreman, Robert W., and Veatch. 3,119,760.
Foreman, Robert W., and Veatch. 3,155,661.
Veatch, Franklin, H. E. Alford, and R. D. Croft, to The Standard Oil Co. Apparatus for producing hollow glass particles. 3,129,086, 4–14–64, Cl. 65—142.
Veatch, Joseph G., Jr., to CTS Corp. Method for molding an annular ring of insulating material to a flat metal strip. 2,132,196, 5–5–64, Cl. 264—272.
Veazey, Thomas M., and W. R. Eberhardt, to Monsanto Co. Vaporization of adipic acid and reaction thereof with ammonia to produce adiponitrile. 3,153,084, 10–13–64, Cl. 260—465.2.
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Vecchiarelli, Francis, and J. A. Englund, to National Distillers and Chemical Corp. Tilting mechanism for Venetian blinds, or the like. 3,156,295, 11–10–64, Cl. 160—175.
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Bowers, William E., and McLoad. 3,137,988.
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McLoad, Kenneth W. 3,163,703.
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Namenyi-Katz, Laszlo. 3,143,041.
Namenyi-Katz, Laszlo. 3,156,424.
Vedder, John and B. Sequence air valve. 3,152,606, 10–13–64, Cl. 137—493.2.
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Garland, Ronald M., and Ashford. 3,141,572.
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Vroom, Harold B. 3,147,918.
Wild, Otto, Jr. 3,142,442.
Veen, Anton V. Reset means for hand counters. 3,120,343, 2–4–64, Cl. 235—144.
Veen, Roelof P. Life saving device. 3,120,010, 2–4–64, Cl. 9—4.
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Litke, Ray A. 3,134,074.
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Vegsund, Karsten, to Canadian Forest Products, Ltd. Cam operated gang switch assembly with rotatably mounted and manual adjustable supporting plate means. 3,158,699, 11–24–64, Cl. 200—18.
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Veil, John W., Jr., to The Carpenter Steel Co. Through-plug mold stool. 3,129,473, 4–21–64, Cl. 22—57.
Veilleux, Roger L. Apparatus for covering truck bodies. 3,146,824, 9–1–64, Cl. 160—23.
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Veith, Werner, to Siemens & Halske Aktiengesellschaft. Amplifier tube having a thermionic cathode without heater. 3,156,844, 11–10–64, Cl. 313—305.
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Velonis, Stamatis G., H. S. Schnitzer, and H. M. Richardson, to Galen Enterprises, Inc. Method of making plastic gloves. 3,148,235, 9–8–64, Cl. 264—301.
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Carlson, Arthur W. 3,122,590.
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Dissen, Israel J. 3,117,852.
Fiske, Kenneth V., and Soder. 3,161,985.
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Richter, Sidney B. 3,118,756.
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Venables, Herbert J., III, to General Electric Co. Manufacture of heat exchange tubing. 3,160,129, 12–8–64, Cl. 113—1.
Venables, Herbert J., III, to The Venables Machine & Tool Co. Indexing apparatus. 3,161,070, 12–15–64, Cl. 74—129.
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Venables, Herbert J., III. 3,161,070.
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Haverstick, Merral P. 3,155,214.
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Johnson, Elmer C. 3,158,417.
Johnson, Elmer C., Edmonds, and May. 3,146,043.
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Sabin, Eugene R., and Van Wye. 3,163,326.
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Venediger, Herbert J., ½ to T. B. Danckwortt. Port-controlled, opposed-piston, two-cycle internal-combustion engine. 3,117,566, 1–14–64, Cl. 123—51.
Venema, Harry J., to Borg-Warner Corp. Heat transfer system as it pertains to thermoelectrics. 3,137,142, 6–16–64, Cl. 62—3.
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Gawlitza, Franz, Hontzsch, and Schmitz. 3,119,355.
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Verbeek, Clarence, to Union Tank Car Co. Welding device. 3,162,161, 12–22–64, Cl. 113—133.
Verbeek, Hendrik J., to North American Philips Co., Inc. Fluid-tight seal between relatively reciprocating elements. 3,149,846, 9–22–64, Cl. 277—27.
Verbeek, Hendrik J., to North American Philips Co., Inc. Arrangement for separating in a solid state constituents from a gas mixture. 3,162,517, 12–22–64, Cl. 55—269.
Verbeek, Leo H., to North American Philips Co., Inc. Electric lamp base construction. 3,162,502, 12–22–64, Cl. 339—144.
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Verdol, Joseph A., to Sinclair Research, Inc. Tertiary olefin separation via etherification. 3,121,124, 2–11–64, Cl. 260—677.
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Ver Nooy, Burton, to T. D. Williamson, Inc. Pipeline plugger. 3,154,106, 10–27–64, Cl. 138—94.

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Ver Nooy, Burton, to T. D. Williamson, Inc. Apparatus for closing side openings in pipelines. 3,157,203, 11–17–64, Cl. 138—89.

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Verrone, Louis, to Swivelier Co., Inc. Means for locking fixtures to busway. 3,150,908, 9–29–64, Cl. 339—91.

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Versch, Roman H., and V. P. Donner, to Gilson Brothers Co. Pole handling device. 3,154,200, 10–27–64, Cl. 214—3.

Versen, Kurt, to R. C. Anisfield. Ceiling mounting for recessed lighting fixtures. 3,121,259, 2–18–64, Cl. 20—4.

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Vetter, Richard H. Process and camera system for securing and displaying a very wide-angle image. 3,142,223, 7–28–64, Cl. 88—16.

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Via, Hugh D., Sr. Salt dispenser. 3,136,457, 6–9–64, Cl. 222—476.

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Viaplana, Guri. Electronically operated photosensitive pick-up system. 3,131,332, 4–28–64, Cl. 317—130.

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Vicenzi, Reno L., and J. A. Kleinheinz, to Controls Co. of America. Thermally actuated arcuate strip type control device. 3,162,742, 12–22–64, Cl. 200—137.

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Vickers, James L., and F. B. Burt, to The Bendix Corp. Power steering mechanism. 3,145,626, 8–25–64, Cl. 91—375.

Vickers, Louie J. Block-out frisket for printing processes. 3,137,229, 6–16–64, Cl. 101—421.

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Vickers, Paul T.: *See*—
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Vickers, Stanley E., to Vickers Machine & Tool, Inc. Right angle milling head. 3,163,081, 12–29–64, Cl. 90—11.
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Brumbach, Joseph F. 3,125,639.
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Vidal, Eugene L., to Phillips Petroleum Co. Carrying case. 3,151,762, 10–6–64, Cl. 220—21.
Vidal, Manuel. Collapsible oars. 3,135,977, 6–9–64, Cl. 9—24.
Videtic, Silvan, to The Leece-Neville Co. Dynamo-electric machine brush rigging. 3,138,728, 6–23–64, Cl. 310—239.
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Vieli, Otto A., to Dr. W. H. Kreidl. Method of making a urea-formaldehyde resin foam. 3,150,108, 9–22–64, Cl. 260—2.5.
Vielmo, Oskar, to Robert Bosch, G.m.b.H. Air-actuated braking system for towing vehicles. 3,155,434, 11–3–64, Cl. 303—7.
Vierling, Donald E. Process for preparing phenothiazine having a small particle size and compound resulting therefrom. 3,160,630, 12–8–64, Cl. 260—243.
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Viescas, Arthur B., to American Machine & Foundry Co. Rotary type pin elevator with selectively operated gripper control adjacent the receiving station. 3,142,486, 7–28–64, Cl. 273—43.
Viescas, Arthur B., to American Machine & Foundry Co. Fire extinguishing system for sanding machine. 3,146,558, 9–1–64, Cl. 51—174.
Vieth, Adolf, to Tung-Sol Electric Inc. Temperature controlled enclosure for testing purposes. 3,143,167, 8–4–64, Cl. 165—27.
Vieth, Adolf, to Tung-Sol Electric Inc. Control circuit. 3,161,-782, 18–15–64, Cl. 307—88.5.
Vietor, Mel L., to Minnesota Mining and Mfg. Co. Corrosion inhibiting compositions. 3,141,001, 7–14–64, Cl. 252—389.
Vietor, Mel L., to Minnesota Mining and Mfg. Co. Aqueous polish composition. 3,163,547, 12–29–64, Cl. 106—6.
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Vig, Bennie T. Portable material spreader. 3,158,375, 11–24–64, Cl. 275—8.
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Vigna, Ralph M., to Eastman Kodak Co. Cabinetry structure. 3,132,910, 5–122–64, Cl. 312—264.
Vignale, Michael J., to Monsanto Co. Desolvated Rb and Cs triphenyl methide catalyst and process of polymerizing styrene therewith. 3,161,625, 12–15–64, Cl. 260—935.
Vigneron, Bernard P., to Compagnie Francaise Thomson-Houston. Transistor having threshold switch effecting coupling and feedback-effecting temperature compensation. 3,121,175, 2–11–64, Cl. 307—88.5.
Vigneron, Maurice G. E., to A.E.C. Societe de Chimie Organique et Biologique Lysine orotate. 3,161,565, 12–15–64, Cl. 167—55.
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Vilain, Pierre. Device for feeding granulated material to farm animals. 3,144,002, 8–11–64, Cl. 119—56.
Vilbajo, Jean, to A.V.R., Achat, Ventes, Representations, Societe Anonyme. Electric detonators. 3,125,954, 3–24–64, Cl. 102—28.
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Villano, Joseph. Assembly insert holder. 3,159,393, 12–1–64, Cl. 269—49.
Villasana, Armando, to Phillips Petroleum Co. Mold selector valve. 3,120,680, 2–11–64, Cl. 18—30.
Villaume, Frederick G., to American Cyanamid Co. Brightener composition for paper derived from metanilic and sulfanilic acids. 3,132,106, 5–5–64, Cl. 252—301.2.
Villemonte de la Clergerie, Yves T., to Etablissements Hutchinen (Compagnie Nationale du Caoutchouc). Flexible containers and process for their manufacture. 3,155,133, 11–3–64, Cl. 150—.5.
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Kocher, Erich J. 3,131,855.
Michener, William E. 3,131,856.
Vinal, Albert W., to International Business Machines Corp. Magnetic memory system. 3,141,155, 7–14–64, Cl. 340—174.
Vinas, Robert. Mallet case and rack. 3,155,231, 11–3–64, Cl. 206—13.
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Vogl, Norbert G., Jr., to International Business Machines Corp. Magnetic switching device. 3,150,269, 9–22–64, Cl. 307—88.
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Voland, Elmo W., to Mallory Timers Co., a Division of P. R. Mallory & Co., Inc. Plunger switch having integral plunger and spring. 3,140,365, 7–7–64, Cl. 200—16.
Voland, Elmo W., to P. R. Mallory & Co., Inc. Shaft positioning device. 3,154,967, 11–3–64, Cl. 74—527.
Volberg, Herman W., to General Dynamics Corp. Character generator. 3,134,907, 5–26–64, Cl. 250—237.
Volckening, Inc.: *See*—
Norwood, James C. 3,155,228.
Volckening, Lloyd I., J. R. O'Meara, and E. J. David, to Ivers-Lee Co. Drop applicator package. 3,128,920, 4–14–64, Cl. 222—215.
Vold, Gordon A.: *See*—
O'Brien, Robert J., and Vold. 3,147,724.
Vold, Ingebret H., to Minneapolis-Honeywell Regulator Co. Omni-directional impact switch. 3,156,794, 11–10–64, Cl. 200—61.45.
Voldale, Inc.: *See*—
Kitter, Volda. 3,136,716.
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Kulesza, Stanley, Voldstad, and Kahn. 3,136,253.
Voles, Roger: *See*—
Spencer, Rolf E., and Voles. 3,137,787.
Voles, Roger, to Electric & Musical Industries Ltd. Digital differential analyzers. 3,139,522, 6–30–64, Cl. 235—152.
Voles, Roger, to Electric & Musical Industries Ltd. Radar mapping systems. 3,155,964, 11–3–64, Cl. 343—5.
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Kroon, Dirk J., and Volger. 3,137,813.
Meyer, Hans J. G., Volger, and Thees. 3,141,239.
Volk, Cecil S. Lighters. 3,150,509, 9–29–64, Cl. 67—7.1.
Volk, Victor F., to Anaconda Wire and Cable Co. Method and apparatus for twisting a plurality of strands. 3,124,923, 3–17–64, Cl. 57—17.
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Johnson, Clarence A., and Volk. 3,147,106.
Volke, William J.: *See*—
Kinsey, Claude J., and Volke. 3,130,587.

Volkert, John W., to Consolidated Vacuum Corp. Space chamber interlock door and door frame. 3,146,500, 9–1–64, Cl. 20—16.
Volkholz, William A., to Viewlex, Inc. Focusing means for slide projector. 3,134,298, 5–26–64, Cl. 88—24.
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Volland, Hans, to M. Grundig. Injection molding machine. 3,131,433, 5–5–64, Cl. 18—30.
Vollet, George. Adjustable tube end. 3,118,209, 1–21–64, Cl. 24—265.
Vollhardt, Fromut, to Schmidt'Sche Heissdampf-Gesellschaft m.b.H., Firma. Heat exchanger for the cooling of freshly cracked gases or the like. 3,144,080, 8–11–64, Cl. 165—159.
Vollink, Willard L.: *See*—
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Vollrath, Willi, and G. Funk, to Josef Funk, KG, Firma. Conveyor installation. 3,122,362, 2–25–64, Cl. 270—57.
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Balitsky, Nicolay V., Volodin, Zmijevsky, Savchenko, Selezniova, Nepomniashtshy, and Tapeshkin. 3,146,475
Volpin, Alexander S. Automatic sealed gate valve. 3,135,285, 6–2–64, Cl. 137—246.12.
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Voltz, Sterling E., and R. Wynkoop, to Sun Oil Co. Increasing antiknock value of olefinic gasoline. 3,119,766, 1–28–64, Cl. 208—291.
Voltz, Sterling E., W. P. Griffin, Jr., and A. P. Stuart, to Sun Oil Co. Preparation of polymers from 3-ethylidene-1-cyclohexene. 3,133,907, 5–19–64, Cl. 260—93.1.
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Kronogård, Sven-Olof. 3,154,918.
Kronogard, Sven-Olof. 3,154,924.
Wettstein, Fritz A. 3,147,990.
Volvo, Aktiebolaget: *See*—
Bohlin, Nils I. 3,147,995.
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Van Munster, Lourens B. 3,159,383.
Vona, Joseph A.: *See*—
Bortnek, Eugene, Vona, and Kuzma. 3,140,267.
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Von Benten, Hans, to Durrwerke Aktiengesellschaft. Once-through steam generator. 3,124,109, 3–10–64, Cl. 122—406.
Von Bogdandy, Ludwig, to Huttenwerk Oberhausen A.G., Firma. Process for the reduction of ores in a reaction furnace. 3,148,050, 9–8–64, Cl. 75—34.
Von Bogdandy, Ludwig, and I. N. Stranski, to Huttenwerk Oberhausen AG. Process for producing sintered articles. 3,158,472, 11–24–64, Cl. 75—200.
Von Bolhar, Edgar, to Ellicott Machine Corp. Floating dredge design. 3,146,537, 9–1–64, Cl. 37—69.
Von Bonin, Jochen, to International Standard Electric Corp. Method of producing a solid electrolytic capacitor. 3,123,894, 3–10–64, Cl. 29—25.31.
Von Bonin, Wulf: *See*—
Piechota, Helmut, and Von Bonin. 3,136,731.
Von Brachel, Hanswilli, W. Lohmar, and H. Holtschmidt, to Farbenfabriken Bayer Aktiengesellschaft. Polyether-thioether. 3,135,804, 6–2–64, Cl. 260—609.
Von Brachel, Hanswilli, H. Essei, and G. Sinn, to Farbenfabriken Bayer Aktiengesellschaft. Latex foam stabilized with an alkylated polyetherpolythioether glycol. 3,158,663, 11–24–64, Cl. 260—723.
Von Brachel, Hanswilli, W. Wolff, H. Holtschmidt, and W. Göbel, to Farbenfabriken Bayer Aktiengesellschaft. Compositions containing polyether-polythioethers as plasticizers. 3,163,620, 12–29–64, Cl. 260—30.8.
Von Brunowsky, Karl. Image viewer. 3,138,058, 6–23–64, Cl. 88—19.

Von Dall'Armi, Georg, to Siemens & Halske Aktiengesellschaft. Plural mast-mounted antennas selectively deenergizable in groups without destruction of radiation pattern. 3,124,802, 3–10–64, Cl. 343—876.
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Vonderau, Dale A.: *See*—
Menough, Paul S. 3,156,456.
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Pugin, André, and von der Crone. 3,143,546.
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Von der Linde, Ekkehard: *See*—
Hermanns, Erich H., Von der Linde, and Weber. 3,163,089.
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Vonderschmitt, Bernard V., and R. A. Daniel, to Radio Corp. of America. Flyback transformer and transistorized deflection circuit. 3,143,686, 8–4–64, Cl. 315—27.
Vondersmith, Fletcher S., C. D. Cox, S. I. Raider, and M. A. Schoner, to United States of America, Navy. Bottom casting process using coated double base propellant granules. 3,137,741, 6–16–64, Cl. 264—3.
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Von Dreusche, Charles F., Jr., to Nichols Engineering & Research Corp. Method for regeneration of granular activated carbon. 3,153,633, 10–20–64, Cl. 252—418.
Von Eisenhart-Rothe, Gunther, to Verinigte Filzfabriken AG. Collar linings on men's and ladies' garments. 3,161,888, 12–22–64, Cl. 2—98.
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Von Frantzius, Peter, to Sports, Inc. Thumb cuff. 3,146,614, 9–1–64, Cl. 70—16.
Von Gunten, Lee L., to Aurora Corp. of Illinois. Solenoid means and solenoid mounting means for pianos. 3,126,783, 3–31–64, Cl. 84—246.
Von Gunten, Lee L. Piano with electric note playing means. 3,141,368, 7–21–64, Cl. 84—246.
Von Gunten, Lee L. Piano having electric playing means therefor. 3,149,528, 9–22–64, Cl. 84—425.
Von Gunten, Lee L., to Aurora Corp. of Illinois. Electric memory latch device for piano having electric chord and run playing mechanism. 3,160,049, 12–8–64, Cl. 84—245.
Von Gunten, Lee L., to Aurora Corp. of Illinois. Solenoid means for actuating and guiding piano playing means. 3,160,052, 12–8–64, Cl. 84—433.
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Von Meister, Frederick W., to Azoplate Corp. Apparatus for developing an electrostatic latent image. 3,130,079, 4–21–64, Cl. 118—637.
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Foster, John R. 3,149,864.
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Von Platen, Baltzar C. Thermostat. 3,121,331, 2–18–64, Cl. 73—363.
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Von Plato, Vitalis, to Ryvon International Co. Rotary pump. 3,136,255, 6–9–64, Cl. 103—3.
Von Pölnitz, Wolfgang, H. G. Schwick, J.-H. Bickhard, to Behringwerke Aktiengesellschaft. Process for the manufacture of a streptokinase preparation. 3,138,542, 6–23–64, Cl. 195—66.
Von Przychowski, Siegfried D., J. Muller, H. Wimmer, F. Wirth, and P. Kaiser. Percussion fuze, particularly for unrifled shells, primarily hollow-charge shells. 3,119,337, 1–28–64, Cl. 102—78.
Von Rabenau, Manuel, to Writing Toys Corp. Motion conversion device in a doll. 3,142,131, 7–28–64, Cl. 46—119.
Von Rabenau, Manuel, to Writing Toys Corp. Motion conversion device. 3,148,452, 9–15–64, Cl. 33—18.
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Angst, Walter, Wengryn, Goodlet, Seifert, and Von Ranson. 3,151,927.
Von Recklinghausen, Daniel R., to H. H. Scott Inc. Stereophonic-broadcast indicating system and the like. 3,125,640, 3–17–64, Cl. 179—15.
Von Recklinghausen, Daniel R., to H. H. Scott, Inc. Stereophonic-to-monophonic reception apparatus. 3,161,727, 12–15–64, Cl. 179—15.
Von Reventlow-Criminil, Frederick V. Concrete constituent indicator. 3,117,721, 1–14–64, Cl. 235—61.
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Von Schertel, Hanns. Automatic control systems for hydrofoils. 3,146,457, 8–25–64, Cl. 114—66.5.
Von Schertel, Hanns. Control device for stabilization of hydrofoils attached to water-craft. 3,146,751, 9–1–64, Cl. 114—66.5.
Von Schickh, Otto, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of acylamines. 3,133,094, 5–12–64, Cl. 260—404.5.
Von Schickh, Otto, and R. Rotzoll, to Badische Anilin- & Soda Fabrik Aktiengesellschaft. Production of carboxylic acid nitriles from lactones. 3,121,733, 2–18–64, Cl. 260—465.2.
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Shavel, John, Jr., and von Strandtmann. 3,120,534.
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Von Werder, Fritz, K. Bruckner, K.-H. Bork, and H. Metz, to E. Merck Aktiengesellscaft. 16-halomethylene steriods. 3,161,661, 12–15–64, Cl. 260—397.4.
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Von Wimmersperg, Heinrich. Shock absorbing crash pad. 3,118,700, 1–21–64, Cl. 296—84.

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Voorhies, Carl. Antipump-up device. 3,124,115, 3–10–64, Cl. 123—90.

Voorhies, Carl. Metering valve with pin. 3,137,282, 6–16–64, Cl. 123—90.

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Vordahl, Milton B., to Crucible Steel Co. of America. Mixed phase, alpha-beta titanium base alloys. 3,151,003, 9–29–64, Cl. 148—32.5.

Vordahl, Milton B., to Crucible Steel Co. of America. Age hardened titanium base alloys and production thereof. 3,156,590, 11–10–64, Cl. 148—12.7.

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Vosbikian, James T. Shears. 3,137,069, 6–16–64, Cl. 30—248.

Vosbikian, James T. Mop having a collar and clip mop head securing means. 3,152,350, 10–13–64, Cl. 15—229.

Vosbikian, James T. Shears for cutting and trimming. 3,156,980, 11–17–64, Cl. 30—253.

Vosbikian, James T. Shears with supporting wheel. 3,157,-017, 11–17–64, Cl. 56—241.

Vosbikian, Peter S. and T. S. Waxers and polishers. 3,126,-573, 3–31–64, Cl. 15—546.

Vosbikian, Peter S. and T. S. Automatic actuator for spray containers. 3,127,060, 3–31–64, Cl. 222—70.

Vosbikian, Peter S. and T. S. Paint applicators. 3,131,419, 5–5–64, Cl. 15—561.

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Vosbikian, Peter S. and T. S. 3,127,060.
Vosbikian, Peter S. and T. S. 3,131,419.

Vosburg, John F. Apparatus for cutting rubber and the like. 3,162,090, 12–22–64, Cl. 90—11.

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Vosti, Albert P., H. M. Edde, and J. J. Saavedra, to Gentry Division, Consolidated Foods Corp. Onion coring, topping, scaling and halving machine. 3,126,930, 3–31–64, Cl. 146—83.

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Vuilleumier, Jean-Paul, and P.-F. Pfister, to Societe Industrielle de Sonceboz S.A. Timepiece movement for electric meters. 3,157,984, 11–24–64, Cl. 58—26.

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Enk, Eduard, Nick, and Silbernagl. 3,141,849.
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Wagner, Anton, W. Beck, and A. Diskus, to Osterreichische Sticksloffwerke Aktiengesellschaft. Fungicidal compositions and methods employing 2,3,5,10-tetrahydro-3,5,10-trioxo-naphthalino-[2,3-] oxazines, thiazines and piperazines. 3,123,526, 3–3–64, Cl. 167—33.
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Walker, Darrell W., and E. L. Czenkusch, to Phillips Petroleum Co. Supported cobalt catalysts and their use. 3,157,-711, 11–17–64, Cl. 260—683.9.

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Walker, William C., and N. Weberg, to West Virginia Pulp and Paper Co. Method and apparatus for the lateral stretching of webs, and resultant product. 3,161,563, 12–15–64, Cl. 162—197.
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Walker, William M. Choker hook. 3,154,337, 10–27–64, Cl. 294—75.
Walker, William W., to Air Reduction Co., Inc. Electric arc welding. 3,142,747, 7–28–64, Cl. 219—137.
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Walkow, Arnold M., to Texas Instruments Inc. Encasement of transistors. 3,134,058, 5–19–64, Cl. 317—234.
Walkup, John H., and J. G. Leech, to West Virginia Pulp and Paper Co. Continuous starch enzymatic conversion process. 3,149,049, 9–15–64, Cl. 195—31.
Walkup, Lewis E., to Xerox Corp. Production of duplicating masters. 3,143,066, 8–4–64, Cl. 101—149.4.
Wall, Byron T., to New Jersey Bank and Trust Co. Dishwasher impeller assembly having a change of pace mechanism therefor. 3,143,296, 8–4–64, Cl. 239—242.
Wall, Erich, to Sulzer Freres, S.A. Bearing arrangement for a warp beam of a weaving machine. 3,155,119, 11–3–64, Cl. 139—97.
Wall, Henry H., Jr., to Ethyl Corp. Manufacture of mixed alkyllead compounds. 3,158,636, 11–24–64, Cl. 260—437.
Wall, James R., and E. P. Harris, to General Motors Corp. Unitary seat construction. 3,142,515, 7–28–64, Cl. 297—452.
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Wallace, Burgess P., R. E. Melcher, and J. F. Loertscher, Jr., to Whitehead Brothers Co. Method and apparatus for applying traction sand to locomotive driving wheels. 3,140,887, 7–14–64, Cl. 291—1.
Wallace, Charles F., N. S. Creswick, and B. G. Watters, to Wallace & Tierman Inc. Electronic audible horn. 3,138,795, 6–23–64, Cl. 340—384.
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Wallace, David J., and J. M. Straley, to Eastman Kodak Co. Azo compounds containing a dicarboximido radical. 3,148,178, 9–8–64, Cl. 260—152.
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Wallace, Eugene L. Chain binder. 3,149,821, 9–22–64, Cl. 254—78.
Wallace, Frank J. Thermally responsive switch. 3,127,489. 3–31–64, Cl. 200—113.
Wallace, George A., to The Globe Hoist Co. Automobile hoist. 3,117,652, 1–14–64, Cl. 187—8.59.
Wallace, George A., to The Globe Hoist Co. Frame engaging unit for vehicle hoists. 3,149,699, 9–22–64, Cl. 187—8.75.
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Wallace, Jeffrey J., to J. T. Gordin, J. R. Gillian, and G. G. Potts. Cotton gin with slidably mounted breasts. 3,162,902, 12–29–64, Cl. 19—59.
Wallace, Jeffrey J., to J. T. Gordin, J. R. Gillian, and G. G. Potts. Cotton gin with novel hulling and ginning rib construction. 3,162,903, 12–29–64, Cl. 19—59.
Wallace, Jeffrey J., to J. T. Gordin, J. R. Gillian, and G. G. Potts. Saw cylinders of cotton gins. 3,162,904, 12–29–64, Cl. 19—63.
Wallace, Jesse L. Drum opening tool. 3,117,373, 1–14–64, Cl. 30—3.
Wallace, John H., and P. J. Colleran, to Emerson Electric Co. Plural motor system for position synchronization. 3,149,273, 9–15–64, Cl. 318—70.
Wallace, John T., to Eastman Kodak Co. Article storage and retrieval device. 3,140,009, 7–7–64, Cl. 221—2.
Wallace, Joseph E., to International Business Machines Corp. Control apparatus using shockwave energy. 3,160,723, 12–8–64, Cl. 200—83.
Wallace, Joseph W., to Reynolds Metals Co. Collapsible container. 3,119,508, 1–28–64, Cl. 220—6.

Wallace, Kurt F., to Ampex Corp. Signal processing means. 3,131,257, 4–28–64, Cl. 178—7.2.
Wallace, Paul F., to Aluminum Co. of America. Enameled aluminous metal product. 3,149,001, 9–15–64, Cl. 117—129.
Wallace, Richard B., to The Oakland Corp. Method and apparatus for device having a friction plug producing rotatably inserted therein. 3,157,894, 11–24–64, Cl. 10—72.
Wallace, Richard B., and R. J. Ebbert, to The Oakland Corp. Automatic pilot device. 3,148,654, 9–15–64, Cl. 114—144.
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Wallace, Walter P., and M. T. Simnad, to General Dynamics Corp. Fuel element. 3,119,747, 1–28–64. Cl. 176—71.
Wallace, William A., and R. F. Pecha, to Continental Aviation and Engineering Corp. Variable compression ratio piston. 3,156,162, 11–10–64, Cl. 92—82.
Wallace, William A., T. J. Pearsall, and W. P. Mansfield, said Wallace and said Pearsall, assors. to Continental Aviation and Engineering Corp. Speed compensated variable compression ratio piston and valve. 3,161,112, 12–15–64, Cl. 92—82.
Wallace, William E., and W. H. Armento, to General Aniline & Film Corp. Azo dyes containing quaternary ammonium substituents. 3,148,181, 9–8–64, Cl. 260—207.
Wallach, Bernard. Pivoted moving satellite simulating space toy. 3,157,401. 11–17–64. Cl. 273—110.
Wallar, Howard C., to Owens-Illinois Glass Co. Apparatus and method for forming hollow glass articles. 3,151,968, 10–6–64, Cl. 65—71.
Wallberg, Frank D. Condiment holder. 3,163,331, 12–29–64, Cl. 222—151.
Wallbridge, Malcolm G. H., and L. H. Long, to National Research Development Corp. Process for the production of alkylated boranes. 3,118,950, 1–21–64, Cl. 260—606.5.
Wallen, Horace F., to The Ryan Aeronautical Co. Lock ring joint for cylindrical pipes and casings. 3,120,402, 2–4–64, Cl. 285—305.
Wallenberg, Fritz, and W. G. Hill, to General Aniline & Film Corp. Adjustable fluid clutch. 3,120,299, 2–4–64, Cl. 192—58.
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Waller, Gustav M., to Burgess-Norton Mfg. Co. Extruding apparatus. 3,133,458, 5–19–64, Cl. 78—9.
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Waller, Robert W., and G. W. Cox, to Computer Control Co., Inc. Coding mechanism. 3,120,656, 2–4–64, Cl. 340—347.
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Wallis, Bernard J. Transfer device. 3,135,395, 6–2–64, Cl. 214—1.
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Wallis, George C., Jr., to Ford Motor Co. Control cable clamp. 3,150,539, 9–29–64, Cl. 74—501.
Wallis, George L. Pump for pumping liquids and apparatus embodying same. 3,122,323, 2–25–64, Cl. 239—156.
Wallis, George L. Apparatus for distributing or dispensing powdered or granular material. 3,128,015, 4–7–64, Cl. 222—177.
Wallis, Marvin E. Liquid film extruding head. 3,162,897, 12–29–64, Cl. 18—12.
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Wallner, Alfred J., and C. A. Sterling, to Minnesota Mining and Mfg Co. Pressure-sensitive adhesive tape with antistatic primer coating. 3,146,882, 9–1–64, Cl. 206—59.
Wallqvist, Sven H., to Haldex Aktiebolag. Contrivance for setting impelling members to zero, particularly in connection with taxicabs. 3,137,442, 6–16–64, Cl. 235—47.
Walls, Gordon W., to Industrial Nucleonics Corp. Method and apparatus for determining moisture content of dielectric materials by measuring the ratio of voltage changes at two frequencies. 3,155,902, 11–3–64, Cl. 324—61.
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Walmsley, Frank, R. H. Procter, and F. H. W. Sanders, to English Drilling Equipment Co. Ltd. Coupling or uncoupling apparatus for drill rods of drilling apparatus. 3,138,212, 6–23–64, Cl. 173—164.

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Walsh, Edward N., to Stauffer Chemical Co. Phosphonic diamides and methods of making same. 3,155,659, 11–3–64, Cl. 260—247.5.
Walsh, Harry J. Plural flush toilet valve. 3,153,247, 10–20–64, Cl. 4—58.
Walsh, Jack. Powered endless track snow sled. 3,146,840, 9–1–64, Cl. 180—5.
Walsh, James L., to International Business Machines Corp. Non-saturating inverter for logic circuits. 3,118,073, 1–14–64, Cl. 307—88.5.
Walsh, James L., to International Business Machines Corp. Three-level asynchronous switching circuit. 3,156,830, 11–10–64, Cl. 307—88.5.
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Walsh, Robert J., to Monsanto Co. Production of basic lead carbonate. 3,150,927, 9–29–64, Cl. 23—70.
Walsh, Robert J., to Monsanto Co. Process for producing hollow spheres of silica. 3,161,468, 12–15–64, Cl. 23—182.
Walsh, Thomas B. Conduit for conveying solids in a stream of fluid. 3,149,885, 9–22–64, Cl. 302—64.
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Walter, Henry J., to Airequip Mfg. Co. Two speed cooling fan projector. 3,138,715, 6–23–64, Cl. 307—11.
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Walter, John M., to The G. A. Gray, Co. Level adjusting mechanism for the cross-rail of a planar type machine tool. 3,129,641, 4–21–64, Cl. 90—16.
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Walter, Joseph H. Bottle packing machine. 3,142,947, 8–4–64, Cl. 53—55.
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Walter, Orville L., to Bell Telephone Laboratories, Inc. Pulley block for installing aerial cable. 3,134,575, 5–26–64, Cl. 254—134.3.
Walter, Oscar, to Sperry Rand Corp. Tape recording typewriters. 3,153,240, 10–13–64, Cl. 346—74.
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Walter, Paul H. L., to E. I. du Pont de Nemours and Co. Ferromagnetic compositions of iron, rhodium and at least one other element of atomic numbers 21–25 and 27–30. 3,140,942, 7–14–64, Cl. 75—122.
Walter, Paul H. L., to E. I. du Pont de Nemours and Co. Magnetic compositions containing iron, rhodum and at least one member of the lanthanide series. 3,144,325, 8–11–64, Cl. 75—122.
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Walters, Earl O., and B. E. Welch, to Western Pine Association. Lumber testing apparatus. 3,158,021, 11–24–64, Cl. 73—100.
Walters, Emmett L., to Libbey-Owens-Ford Glass Co. Plaster roll-out. 3,146,563, 9–1–64, Cl. 51—277.
Walters, Emmett L., to Libbey-Owens-Ford Glass Co. Apparatus for surfacing glass. 3,157,005, 11–17–64, Cl. 51—112.
Walters, Geoffrey K., to Texas Instruments Inc. Method of providing a regulated magnetic field. 3,156,850, 11–10–64, Cl. 317—123.
Walters, George E., to The Great Western Sugar Co. Row crop seed planter. 3,122,283, 2–25–64, Cl. 222—371.
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Warner, George W., to Allis-Chalmers Mfg. Co. Sprayer system. 3,147,922, 9–8–64, Cl. 239—127.
Warner, Glenn M., to Briles Mfg. Auxiliary fuel supply device. 3,129,747, 4–21–64, Cl. 158—46.5.
Warner, Harold, to General Electric Co. Method of measuring the partial pressure of gas. 3,149,921, 9–22–64, Cl. 23—232.
Warner, Harold, and P. Weiss, to American Bosch Arma Corp. Positive action relay control circuit incorporating a blocking oscillator. 3,147,407, 9–1–64, Cl. 317—146.
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Warner, Joseph S., and G. C. Ward, to Celanese Corp. of America. Process for dyeing cellulose triesters with disperse acetate dyes in the presence of an organic liquid. 3,153,563, 10–20–64, Cl. 8—59.
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Anderson, Floyd E. 3,147,270.
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Shavel, John, Jr., and Zinnes. 3,120,535.
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Shavel, John, Jr., and Von Strandtmann. 3,120,534.
Shavel, John, Jr., and Von Strandtmann. 3,159,623.
Shavel, John, Jr., Von Strandtmann, and Cohen. 3,152,-135.
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Warner, Lewis S. Adjustable backing key. 3,122,048, 2–25–64, Cl. 85—1.
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Warner, Parke C., to Sealright-Oswego Falls Corp. In-feed mechanism for container capping machines. 3,132,455, 5–12–64, Cl. 53—201.
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Warner, Paul F., and C. E. Lambert, to Phillips Petroleum Co. Preparation of p-dithiane and diethyl sulfide. 3,119,-838, 1–28–64, Cl. 260—327.
Warner, Paul F., and J. R. Slagle, to Phillips Petroleum Co. Preparation of high purity trialkyl trithiophosphates. 3,136,807, 6–9–64, Cl. 260—461.
Warner, Paul F., and R. D. Franz, to Phillips Petroleum Co. Process for synthesis for mercaptans. 3,137,735, 6–16–64, Cl. 260—609.
Warner, Paul F., B. L. Archer, and R. D. Franz, to Phillips Petroleum Co. Killing of grasses and control of crab grass. 3,161,494, 12–15–64, Cl. 71—2.4.
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Waroux, Raoul, to Inventions Finance Corp. Panoramic photography. 3,142,237, 7–28–64, Cl. 95—15.
Warren, Alfred P., and B. D. Lawson, to United States of America, National Aeronautics and Space Administration. Assembly for recovering a capsule. 3,158,336, 11–24–64, Cl. 244—1.
Warren, Arthur P. Thread rolling heads. 3,149,511, 9–22–64, Cl. 80—6.
Warren, Carm. Cigarette holder. 3,120,234, 2–4–64, Cl. 131—258.
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Warren, George W., to Union Carbide Corp. Stabilized polypropylene composition containing an A-stage phenolic resin and a phosphorous-containing compound. 3,124,551, 3–10–64, Cl. 260—43.
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Warren, George W., to Union Carbide Corp. Polypropylene stabilized with an A-stage para-tertiary alkylphenol-formaldehyde resin and a phosphorus containing compound. 3,149,181, 9–15–64, Cl. 260—848.
Warren, Gladden W., to National Steel Corp. Classification of sheet material. 3,138,048, 6–23–64, Cl. 83—106.
Warren, Glenn B. Internal combustion engine operating on stratified combustion principle with explosive fuel injection. 3,154,058, 10–27–64, Cl. 123—32.
Warren, Horace G., and W. O. Myers, to Eastman Kodak Co. Method and apparatus for scanning the surface of a moving web. 3,125,265, 3–17–64, Cl. 266—1.
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Warren, William B., to Hughes Aircraft Co. Electrical circuit system. 3,142,783, 7–28–64, Cl. 317—101.
Warren, William B., to Hughes Aircraft Co. Method of making semiconductor assemblies. 3,149,396, 9–22–64, Cl. 29—25.3.
Warren, William W. Electrical energy allocator. 3,129,372, 4–14–64, Cl. 320—15.
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Wartenberg, Klaus, to Siemens-Schuckertwerke Aktiengesellschaft. Vapor deposition onto stacked semiconductor wafers followed by particular cooling. 3,140,966, 7–14–64, Cl. 148—175.
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Washburn, Harry G., to Tee-Pak, Inc. Sausage stuffing machine. 3,150,410, 9–29–64, Cl. 17—35.
Washburn, Robert S., to Beloit Corp. Slitter band structure with hardened cutting edge. 3,122,958, 3–3–64, Cl. 83—500.
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Tinker, George H., Mai, and Burke. 3,152,895.
Washburne, Brenton P., to Philco Corp. Directional signal radiation system. 3,153,788, 10–20–64, Cl. 343—100.
Washburne, Robert N., and W. D. Emmons, to Rohm & Haas Co. Compositions comprising polyepoxides and maleic anhydride copolymers. 3,136,736, 6–9–64, Cl. 260—45.5.
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Washington, Priscilla. Device for preventing abnormal growth of infant feet. 3,121,425, 2–18–64, Cl. 128—80.
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Wasilewski, Joseph C., to American Instrument Co., Inc. Thermometric titrating apparatus. 3,160,477, 12–8–64, Cl. 23—253.
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Wasserman, Carl I., to Potter Instrument Co. Inc. High speed hammer printers with code signal means. 3,158,090, 11–24–64, Cl. 101—93.
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Wasserman, David, and R. E. Jones, to Merck & Co., Inc. Polymeric phenazasilines. 3,143,560, 8–4–64, Cl. 260—448.2.
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Wasserman, Max, to American Cyanamid Co. Skylight construction. 3,137,099, 6–16–64, Cl. 50—116.
Wasserman, Max, to American Cyanamid Co. Thermal barrier for skylights. 3,139,702, 7–7–64, Cl. 50—116.
Wasserman, Moe, to General Telephone and Electronics Laboratories, Inc. Electroluminescent device with non linear resistance. 3,141,107, 7–14–64, Cl. 313—108.
Wasserman, Philip D., to Cubic Corp. Digital voltmeter. 3,149,282, 9–15–64, Cl. 324—99.
Wasserman, Samuel. Rotary slide rule. 3,129,881, 4–21–64, Cl. 235—79.5.
Wassner, John G., to Rebuilt Engine Products Co. Band type piston ring compressor. 3,129,501, 4–21–64, Cl. 29—269.
Wasson, Burton K., and J. M. Parker, to Charles E. Frosst & Co. β-methallyl-β-phenethylamine. 3,128,309, 4–7–64, Cl. 260—570.8.
Wasson, Lawrence W. Wire reel. 3,134,556, 5–26–64, Cl. 242—96.
Wasson, Loerwood C. Pressure responsive mixing valve. 3,116,748, 1–7–64, Cl. 137—98.
Wasson, Robert A., and S. H. Downs, to Clarage Fan Co. Fan equipment. 3,122,307, 2–25–64, Cl. 230—117.
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Wasylenko, William J., to Burroughs Corp. Electromagnetic transducer apparatus. 3,119,989, 1–28–64, Cl. 340—174.1.
Wasylenko, William J., to Burroughs Corp. Mounting device for multiple magnetic transducers assemblies. 3,124,-789, 3–10–64, Cl. 340—174.1.
Wasylewiez, Maurice J., to Etablissement Seydoux et Michau Reunis. Weft end tucking means. 3,137,321, 6–16–64, Cl. 139—124.
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Watanabe, Masamoto, T. Yamada, H. Sakai, and M. Takahashi, to Toyo Rayon Kabushiki Kaisha. Method of recovering the solvent for acrylonitrile polymer from an aqueous solution thereof. 3,133,018, 5–12–64, Cl. 210—21.

Watanabe, Ryozo, and S. Funakoshi, to The Blood Plasma Corp. of Japan. Process for the preparation of cobaltiprotoporphyrin. 3,140,291, 7–7–64, Cl. 260—314.
Watanabe, Seiichiro, T. Kobayashi, and H. Shoji, to Japan Special Steel Co. Ltd. Magnetic separating machines. 3,124,527, 3–10–64, Cl. 209—218.
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Waters, Alfred R. Stacking and nesting container. 3,147,882, 9–8–64, Cl. 220—97.
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Waters, Robert A., to Waters Mfg., Inc. Chassis for electrical accessories and the like. 3,120,643, 2–4–64, Cl. 325—496.
Waters, Robert A., and M. A. Ayoub, to Waters Mfg., Inc. Calibration instrument for torque gauges. 3,130,574, 4–28–64, Cl. 73—1.
Waterson, Arthur P. Land leveler. 3,159,929, 12–8–64, Cl. 37—180.
Waterton, Frank, to Associated Electrical Industries Ltd. Circuit breakers having interrupting contacts operating in a vacuum. 3,123,698, 3–3–64, Cl. 200—144.
Wathen, William A., M. H. Peterson, and J. C. Koepele, to Massey-Ferguson Inc. Hay crushers. 3,116,582, 1–7–64, Cl. 56—1.
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Watkins, Charles H., to Universal Oil Products Co. Hydrorefining of coke-forming hydrocarbon distillates. 3,133,013, 5–12–64, Cl. 208—210.
Watkins, Charles H., to Universal Oil Products Co. Hydrorefining of coke-forming hydrocarbon distillates. 3,161,586, 12–15–64, Cl. 208—264.
Watkins, John, to Morganite Resistors Ltd. Non-linear resistors. 3,150,342, 9–22–64, Cl. 338—115.
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Watlington, Lee S. Hydraulic lift support for chair. 3,143,332, 8–4–64, Cl. 248—404.
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Watson, Alan, to Associated Electrical Industries Ltd. Control of low pressure D.C. arch discharges. 3,131,276, 4–28–64, Cl. 200—144.
Watson, Albert R., and F. H. Taylor, to Foseco International Ltd. Treatment of molten light alloys. 3,144,323, 8–11–64, Cl. 75—67.
Watson, Alexander S. D. Magnetic apparatus. 3,157,593, 11–17–64, Cl. 209—219.
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Watson, Charles L. Gun spinning apparatus. 3,133,370, 5–19–64, Cl. 42—59.
Watson, Charles V., to Reeves Brothers, Inc. System for the manufacture of diaphragms. 3,162,899, 12–29–64, Cl. 18—19.
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Watson, Guy E., and J. A. Epley, to The Coleman Co., Inc. Connector for joining the ends of pipes to apertured panels. 3,152,817, 10–13–64, Cl. 285—158.
Watson, H. S., Co.: *See*—
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Watson, James J. Method and apparatus for fabricating a roof on large concrete structures. 3,161,703, 12–15–64, Cl. 264—32.
Watson, James P. Multicontact switch. 3,149,299, 9–15–64, Cl. 200—6.
Watson, James P. Spring fastening. 3,159,365, 12–1–64, Cl. 248—27.
Watson, James R., D. M. Lilly, and E. S. Conover, to Toro Mfg. Corp. Seed planting method and apparatus for its practice. 3,160,986, 12–15–64, Cl. 47—56.
Watson, Jere H. Irrigation signal device. 3,129,413, 4–14–64, Cl. 340—235.
Watson, Jesse R. Ballistics camera and mount. 3,152,527, 10–13–64, Cl. 95—1.1.
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Watson, John W., C. E. Kendall, and W. H. Hogg, to Dunlop Rubber Co. Ltd. Polyurethane elastomers stabilized with alkylene-bis-dithiocarbamate. 3,151,098, 9–29–64, Cl. 260—45.9.
Watson, Joseph H. and A. J. Image enhancement and display apparatus. 3,133,194, 5–12–64, Cl. 250—71.
Watson, Kenneth, to Westland Aircraft Ltd. Mechanical gearing. 3,129,608, 4–21–64, Cl. 74—665.
Watson, Lee M., to The Singer Co. Prefabricated heating structure and method of installing. 3,135,040, 6–2–64, Cl. 29—155.62.
Watson, Norman E. and J. W. Minimum tillage planter. 3,144,843, 8–18–64, Cl. 111—52.
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Watson, Robert J., to Socony Mobil Oil Co., Inc. Multiple removal system. 3,131,375, 4–28–64, Cl. 340—15.5.
Watson, Robert P., to General Electric Co. Method of sealing a metal tubulation. 3,141,225, 7–21–64, Cl. 29—25.1.
Watson, Robert T., to Radio Corp. of America. Cathode ray tube and method of operation. 3,136,918, 6–9–64, Cl. 315—14.
Watson, Roger W.: *See*—
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De Young, Edwin L., and Watson. 3,121,059.
Watson, Susana W. Adjustable container holder. 3,141,577, 7–21–64, Cl. 222—166.

Watson, Talmage E. Multi-way convalescent pillow. 3,120,008, 2–4–64, Cl. 5—327.
Watson, Wilfred H., and G. Blood, to Associated Electrical Industries Ltd. Manufacture of hollow articles by blowing in a mould. 3,130,030, 4–21–64, Cl. 65—79.
Watson, William B.: *See*—
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Russell, Howard G., and Watson. 3,150,075.
Smith, Kenneth A., and Watson. 3,150,074.
Watson, William B., and L. M. Lehman, to Sinclair Research, Inc. Catalyst demetallization. 3,150,072, 9–22–64, Cl. 208—46.
Watson, William F.: *See*—
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Watson, William F., to The Bendix Corp. Vertical scale condition indicator. 3,117,312, 1–7–64, Cl. 340—316.
Watson, William G., to Imperial Chemical Industries Ltd. Process for improving the handle of polyethylene terephthalate fabrics with an alkali metal hydroxide and specific quaternary ammonium salts. 3,135,577, 6–2–64, Cl. 8—115.5
Watson, William L., to Pollard Bearings Ltd. Seal for ball and roller bearings. 3,129,985, 4–21–64, Cl. 308—187.1.
Watt, Andrew K., to General Motors Corp. Air vent valve structures for passenger vehicles. 3,143,951, 8–11–64, Cl. 98—2.
Watt, Charles E., Jr., and C. J. Carson, to Craig Systems, Inc. Weather sealed and shielded double door construction for radio frequency shelters. 3,129,278, 4–14–64, Cl. 174—35.
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Bickerdike, Robert L., Brown, Hughes, Johnson and Watt. 3,132,979.
Wattendorf, Frank L., H. J. Von Ohain, and M. O. Lawson. Multiple electrode arrangement for producing a diffused electrical discharge. 3,119,233, 1–28–64, Cl. 60—35.5.
Watter, Michael, to The Budd Co. Non-cellular honeycomb structure. 3,131,789, 5–5–64, Cl. 189—34.
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Watters, John N., deceased; E. G. Watters, executrix, to F. R. Shaw, d.b.a. Cape Cod Logger Co. Self supported fireplace tongs. 3,118,697, 1–21–64, Cl. 294—11.
Watters, Norman T., to Zenith Radio Corp. Stair-step counter with pulse storage capacitor triggering, via anti-leakage diode, transistor blocking oscillator. 3,121,803, 2–18–64, Cl. 307—88.5.
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Watts, Chester B., Jr., to Scanwell Laboratories, Inc. Variable waveguide. 3,118,118, 1–14–64, Cl. 333—31.
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Watts, Claude H., and R. R. Miller, to Precision Metalsmiths, Inc. Pattern for investment mold and mold made therefrom. 3.139,656, 7–7–64, Cl. 22—134.
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Watts, George R., to P. R. Mallory & Co., Inc. Copper-base alloys and method of heat treating them. 3,143,442, 8–4–64, Cl. 148—160.
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Watts, John D., to Gray Tool Co. Coupling with rigidly fixed sealing ring. 3,150,889, 9–29–64, Cl. 285—332.2.
Watts, John D., J. C. Ireland, and R. L. Crain, to Gray Tool Co. Well completion equipment having rotatable hanger bushings. 3,118,690, 1–21–64, Cl. 285—137.
Watts, John R., P. Wagman, and J. R. Freswater, to M. Petrushkin, Ltd. Cardboard and like cartons. 3,125,279, 3–17–64, Cl. 229—40.
Watts, Percy H., M. E. Ash, and G. C. Phillpotts, to Arthur Guinness, Son and Co. (Park Royal) Ltd. Method for preparing brewers' wort. 3,128,189, 4–7–64, Cl. 99—52.
Watts, Reginald, to Minister of Aviation, in Her Majesty's Government of the United Kingdom of Great Britain and Northern Ireland. Film drive mechanism for photographic cameras. 3,137,221, 6–16–64, Cl. 95—31.
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Watts, Richard M., to Reynolds Metals Co. Dispensing container and blank therefor. 3,125,258, 3–17–64, Cl. 222—480.
Watts, Russell E., to Fleming & Sons, Inc. Paper web slitter. 3,152,500, 10–13–64, Cl. 83—302.
Watts, Troy E., and R. G. Wilson, to Monsanto Chemical Co. Strand packages. 3,123,889, 3–10–64, Cl. 28—21.
Watts, Walter A. H., to The P. & M. Co. (England) Ltd. Rail and flange lubricating apparatus. 3,147,822, 9–8–64, Cl. 184—3.
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Gruber, Jerome M., and Gardner. 3,129,417.
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Funk, Gilbert R., and Holtgrieve. 3,150,593.
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Way, David G. Holder and puncturing device for cans. 3,134,506, 5–26–64, Cl. 222—83.5.
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Wayfield, David J. Swimming instruction apparatus. 3,140,550, 7–14–64, Cl. 35—29.
Wayfield David J. Swimming instruction device. 3,140,551, 7–14–64, Cl. 35—29.
Wayland, Rosser L., Jr., to Dan River Mills, Inc. Wrinkle resistant fabric and method. 3,158,501, 11–24–64, Cl. 117—139.4.
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Wayne Petroleum Co.: *See*—
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Wayne, Ronald G. Adjustable range transducer. 3,119,270, 1–28–64, Cl. 73—410.
Wayne, William C., Jr., to D. H. Baldwin Co. Audio modulation system. 3,147,333, 9–1–64, Cl. 84—1.24.
Wayne, William C., Jr., to D. H. Baldwin Co. System for processing musical spectra. 3,157,725, 11–17–64, Cl. 84—1.24.
Wayson, Andrew J., to Merriman Bros., Inc. Traveler for use with spinning rings. 3,157,981, 11–24–64, Cl. 57—125.
Weakley, Francis B., and C. L. Mehltretter, to United States of America, Agriculture. Polymeric dialdehyde-protein adhesives and wood laminates therewith. 3,153,597, 10–20–64, Cl. 106—139.
Weakley, Martin L., S. M. Moffett, and L. E. Craig. Arylenebis nitroso ureas. 3,119,865, 1–28–64, Cl. 260—553.
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Weatherall, Edwin R., 1/10 to C. S. Carlton, and 1/10 to R. H. Henderson. Grass knocker for cotton picker. 3,143,840, 8–11–64, Cl. 56—28.
Weatherby, Roy E., and F. L. Jennie. Single shot or semi-automatic firearm. 3,155,004, 11–3–64, Cl. 89—128.
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Weatherley, Eric G. Diffusion process for the manufacture of a malleable iron-chromium alloy. 3,118,762, 1–21–64, Cl. 75—130.5.
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Weaver, Elmer C. Vacuum table top. 3,156,462, 11–10–64, Cl. 269—21.
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Weaver, John R., Jr., and M. A. Pierrat, to Craig Systems, Inc. Wheeled dolly with tiltable axle for load leveling. 3,131,950, 5–5–64, Cl. 280—6.
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Weaver, Paul J., to True-Trace Corp. Template holder. 3,142,213, 7–28–64, Cl. 82—14.
Weaver, Paul J., to Graning Enameling Co. Check valve and filter. 3,154,486, 10–27–64, Cl. 210—136.
Weaver, Paul J., to True-Trace Corp. Multiple template, multiple cutting tool, contour copying machine. 3,156,144, 11–10–64, Cl. 82—14.
Weaver, Paul J., to True-Trace Corp. Pantograph machine tools. 3,156,155, 11–10–64, Cl. 90—13.1.
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Weaver, Scott. Apparatus for photographing a traffic violator. 3,148,015, 9–8–64, Cl. 346—107.
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Webb, Edmond F., to The Delman Co. Flexible tubing structure. 3,116,759, 1–7–64, Cl. 138—125.
Webb, Edwin Y., Jr. Secret signalling systems. 3,124,748, 3–10–64, Cl. 325—35.
Webb, Frederick J.: *See*—
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Webb, Frederick J., and A. C. Whiton, to The Firestone Tire & Rubber Co. Polymerization of olefins with catalyst containing adduct of alkali metal and polynuclear aromatic compound. 3,122,527, 2–25–64, Cl. 260—94.9.
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Webb, Godfrey B.: *See*—
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Webb, James E., administrator of the National Aeronautics and Space Administration, with respect to an invention of J. J. Chilenski. Ignition system for monopropellant combustion devices. 3,120,738, 2–11–64, Cl. 60—35.6.
Webb, James E., administrator of the National Aeronautics and Space Administration, with respect to an invention of E. F. Koch. Expulsion bladder-equipped storage tank structure. 3,123,248, 3–3–64, Cl. 220—63.
Webb, James E., administrator of the National Aeronautics and Space Administration, with respect to an invention of W. F. MacGlashan, Jr. Multiple Belleville spring assembly. 3,127,157, 3–31–64, Cl. 267—1.
Webb, James E., administrator of the National Aeronautics and Space Administration with respect to an invention of J. H. Laub, and F. F. Batsch. Slit regulated gas journal bearing. 3,132,903, 5–12–64, Cl. 308—9.
Webb, James E., administrator of the National Aeronautics and Space Administration, with respect to an invention of C. W. Raggio, Jr. Steerable solid propellant rocket motor. 3,139,725, 7–7–64, Cl. 60—35.54.
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Webb, James E., administrator of the National Aeronautics and Space Administration with respect to an invention of D. Baganoff. Means for controlling rupture of shock tube diaphragms. 3,145,874, 8–25–64, Cl. 220—89.
Webb, James E., administrator of the National Aeronautics and Space Administration, with respect to an invention of D. G. Elliott. Two-fluid magnetohydrodynamic system and method for thermal-electric power conversion. 3,158,764, 11–24–64. Cl. 310—11.
Webb, James E., administrator of the National Aeronautics and Space Administration, with respect to an invention of E. N. Petrick. Variable thrust ion engine utilizing thermally decomposable solid fuel. 3,159,967, 12–8–64, Cl. 60—35.5.
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Webb, John G., and M. H. Priest, to Courtaulds Ltd. Production of coloured artificial threads. 3,163,550, 12–29–64, Cl. 106—165.
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Webb, Robert J. and M. S. W., and Wildy. 3,144,551.
Webb, Myron Q., to E. I. du Pont de Nemours and Co. Dye leveling with $ZnSo_4$ on textiles of polyacrylonitrile copolymers and blends. 3,123,432, 3–3–64, Cl. 8—21.
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Webb, Reginald F., and J. F. Chandler, to Ciba Ltd. Production of trans-quinitol. 3,122,589, 2–25–64, Cl. 260—631.
Webb, Richard C., to Bell & Gossett Co. Angle encoding apparatus. 3,152,324, 10–6–64, Cl. 340—347.
Webb, Robert J. and M. S. W., and P. C. Wildy, to United Kingdom Atomic Energy Authority. Beryllium monitor means utilizing an electric arc and spectrum analyzer. 3,144,551, 8–11–64, Cl. 250—43.5.

Webb, Robert S., to Elox Corp. of Michigan. Power feed system. Re. 25,542, 3–24–64, Cl. 314—61.
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Webb, Robert S., to Elox Corp. Fail safe power feed system. 3,138,690, 6–23–64, Cl. 219—69.
Webb, Robert S., to Elox Corp. of Michigan. High voltage-reverse polarity EDM. 3,158,728, 11–24–64, Cl. 219—69.
Webb, Robert S. Vacuum tube-transistor coupling circuit coupling device power from vacuum tube to power transistor to load. 3,158,755, 11–24–64, Cl. 307—88.5.
Webb, Vern B. Fire extinguisher warning system. 3,145,375, 8–18–64, Cl. 340—280.
Webb, Watt W.: *See*—
Allan, William J., and Webb. 3,144,358.
Webb, Wells A., to Hexcel Products Inc. Rocket grain construction. 3,130,672, 4–28–64, Cl. 102—98.
Webb, William D.: *See*—
Lewis, William D., and Webb. 3,144,264.
Webb, William D. Golf ball retriever. 3,117,814, 1–14–64, Cl. 294—19.
Webber, George, 33⅓% to M. Kemp and 33⅓% to A. S. Parkhurst. Vacuum-operated disposal device. 3,135,378, 6–2–64, Cl. 206—195.
Webber, George D., to The L. S. Starrett Co. Optical polygons. 3,117,178, 1–7–64, Cl. 88—73.
Webberley, Harold G.: *See*—
Turner, Frederick J. L., Mason, and Webberley. 3,132,797.
Webcor, Inc.: *See*—
Hechler, Valentine, IV. 3,129,408.
Netznik, Frederick P. 3,163,720.
Weber, Adolf: *See*—
Hartmann, Heinz, and Weber. 3,141,345.
Weber, Alexander, to Dr. H. Beer, and Mrs. E. Weber-Horisberger, trading as AWEPA. Track assembly. 3,129,751, 4–21–64, Cl. 160—345.
Weber, Arnold J., to Union Tank Car Co. Fluid distributor for tanks. 3,155,612, 11–3–64, Cl. 210—291.
Weber, Artur, and A. Rufer, to Saia A.G. Program-timing device. 3,162,777, 12–22–64, Cl. 307—141.4.
Weber, Bernhard. Illuminated ball-point pen having a pressure mechanism containing an illuminating device. 3,122,328, 2–25–64, Cl. 240—6.46.
Weber, Bertrand N. Earth boring machine. 3,123,161, 3–3–64, Cl. 175—106.
Weber, Carl: *See*—
Mueller, Richard J., Weber, and Katz. 3,147,838.
Weber, Carl, to Automatic Canteen Co. of America. Money-handling devices. 3,158,159, 11–24–64, Cl. 133—3.
Weber, Charles H., to Gleason Reel Corp. Adjustable drum for automatic take-up reel. 3,160,362, 12–8–64, Cl. 242—77.4.
Weber, Clinton L.: *See*—
Hegman, Robert L., and Weber. 3,145,445.
Weber, David W.: *See*—
Baxter, Clyde W., and Weber. 3,155,919.
Weber Dental Mfg. Co., The: *See*—
Maurer, John A., and Lappin. 3,137,297.
Weber, Earl J., to American Gas Association, Inc. Gas ignition system employing piezoelectric element. 3,136,355, 6–9–64, Cl. 158—123.
Weber, Earl J., to American Gas Assn., Inc. Transistor system for gas ignition and the like. 3,142,782, 7–28–64, Cl. 317—86.
Weber, Earl J., to American Gas Assn., Inc. Burner pilot control means. 3,159,202, 12–1–64, Cl. 158—115.
Weber, Earl J., and F. Westberg, to American Gas Assn., Inc. Gas burner ignition system. 3,142,332, 7–28–64, Cl. 158—125.
Weber, Erhard: *See*—
Berndt, Walter, Hörnig, Probst, Schmidt, Schwenk, and Weber. 3,122,586.
Steinmetz, Alfons, Weber, and Lenzmann. 3,119,875.
Weber, Erwin G., to Sperry Rand Corp. Apparatus for producing electrical conductor films by explosive evaporation. 3,142,587, 7–28–64, Cl. 118—49.1.
Weber, Ewald: *See*—
Hermanns, Erich H., von der Linde, and Weber. 3,163,089.
Weber, Frank W., to Burroughs Corp. Delay circuit employing feedback to hold normally-open switch closed, allowing capacitor to fully discharge. 3,132,261, 5–5–64, Cl. 307—88.5.
Weber, George J., to McDonnell Aircraft Corp. Fused switch. 3,123,692, 3–3–64, Cl. 200—114.
Weber, George R. F.: *See*—
Crowe, John E., Osburn, Stobbe, Weber, and Zankl. 3,163,087.
Weber, H. G., and Co., Inc.: *See*—
Weber, Herbert H., and Jacobsen. 3,134,309.
Weber, Hans: *See*—
Wegmann, Ludwig, Bruckschen, and Weber. 3,136,182.
Weber, Hans, to Demag Aktiengesellschaft. Rolling mills. 3,146,643, 9–1–64, Cl. 80—31.1.
Weber, Harm A., Sr. Child's rocking vehicle with figure simulation. 3,151,872, 10–6–64, Cl. 280—1.11.
Weber, Harold, H. J. Brown, and A. T. Blake, to Celanese Corp. of America. Rapid roll changer. 3,137,456, 6–16–64, Cl. 242—56.
Weber, Heinrich, and H. Friedenreich, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Gas compressor stuffing boxes with throttle ring. 3,121,569, 2–18–64, Cl. 277—24.
Weber, Heinz, to F. Bremshey and W. Fulling trading as Bremshey & Co. Collapsible umbrellas. 3,135,276, 6–2–64, Cl. 135—26.
Weber, Henri. Handkerchief retainer. 3,135,030, 6–2–64, Cl. 24—3.
Weber, Herbert H., and P. W. Jacobsen, to H. G. Weber and Co., Inc. Apparatus for erecting packing cases. 3,134,309, 5–26–64, Cl. 93—53.
Weber-Horisberger, Emma: *See*—
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Weber, Jean-Jacques: *See*—
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Weber, John A., to Adams-Millis Corp. Apparatus for improvement of die castings by vibration. 3,117,355, 1–14–64, Cl. 22—68.
Weber, John A., to Adams-Millis Corp. Methods of die casting. 3,117,356, 1–14–64, Cl. 22—216.
Weber, John B.: *See*—
Tobin, Leonard C., and Weber. 3,121,043.
Weber, John Q.: *See*—
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Weber, Joseph A. Stencil assembly and attachment thereof to a paper business form. 3,162,116, 12–22–64, Cl. 101—128.1.
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Weber, Kurt, to Ciba Ltd. Vat dyestuffs of the dibenzanthrone series. 3,139,429, 6–30–64, Cl. 260—247.1.
Weber, Kurt, and M. Staeuble, to Ciba Ltd. Vattable dianthrimide carbazole dyestuffs. 3,138,613, 6–23–64, Cl. 260—316.
Weber, Kurt, M. Staeuble, and H. Schaub, to Ciba Ltd. Process for dyeing or printing cellulose with vat dyestuffs containing hydrophilic groups. 3,149,905, 9–22–64, Cl. 8—35.
Weber, Kurt, and M. Staeuble, to Ciba Ltd. N-sulfatoalkylsulfonamido substituted s-triazinyl amino anthraquinone dyestuffs. 3,157,652, 11–17–64, Cl. 260—249.
Weber, Lyle B.: *See*—
Greenaway, Richard. 3,138,061.
Weber Marking Systems, Inc.: *See*—
Ritter, Charles E. 3,160,271.
Weber, Martin: *See*—
Wegerdt, Fritz, and Weber. 3,150,490.
Weber, Peter E., and M. A. Hall, to United States of America, Navy. Electrodynamic underwater sound source. 3,121,212, 2–11–64, Cl. 340—12.
Weber, Reinhold B. Safety signaling device. 3,122,736, 2–25–64, Cl. 340—366.
Weber, Robert E., to Kimberly-Clark Corp. Manufacture of cellulosic product. 3,132,042, 5–5–64, Cl. 117—76.
Weber, Robert L., III. Automatic aerosol dispenser. 3,150,800, 9–29–64, Cl. 222—70.
Weber, Robert M. Vehicle mounted wire winder. 3,150,842, 9–29–64, Cl. 242—86.5.
Weber, Rudolf, and P. Kaiser, to Messrs. Gebruder Junghans Aktiengesellschaft. Percussion fuze for projectiles without rifling. 3,162,126, 12–22–64, Cl. 102—78.
Weber, Theodore, Jr., to Howard Holmes, Inc. Winding apparatus for an endless web. 3,139,240, 6–30–64, Cl. 242—55.16.
Weber, Victor, to Minnesota Mining and Mfg. Co. Reflex reflector article. 3,140,340, 7–7–64, Cl. 88—82.
Weber, Willi: *See*—
Sauer, Hans, Gaiser, and Weber. 3,153,704.
Weberg, Norman: *See*—
Walker, William C., and Weberg. 3,161,563.
Weber-Klein, Paul, to Jenaer Glaswerk Schott & Gen. Apparatus for indicating and permitting the regulation of the level of molten glass in melting tanks. 3,126,741, 3–31–64, Cl. 73—290.
Webers, Heinz, H. Kreher, and W. Mayer, to Bau-Stahlgewebe G.m.b.H. Device for bending steel mesh for reinforced concrete and the like. 3,120,257, 2–4–64, Cl. 153—15.
Webers, Vincent J., to E. I. du Pont de Nemours and Co. Reducing static-electricity buildup on a synthetic resin by applying a discontinuous nitrogen containing polymer thereon. 3,118,784, 1–21–64, Cl. 117—102.
Webster, Alfred B., N. J. H. Small, and R. Rigby, to Shell Oil Co. Desulfurization of heavy oils. 3,163,593, 12–29–64, Cl. 208—240.
Webster, Benjamin C.: *See*—
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Webster, Charles W., to Tri-Kris Co., Inc. High pressure soft seat valve. 3,153,421, 10–20–64, Cl. 137—315.
Webster, David, to West Virginia Pulp and Paper Co. Aqueous ammoniacal solution of lignin and preparation thereof. 3,117,115, 1–7–64, Cl. 260—124.
Webster, Desmond E. C. Closure fastening device. 3,121,319, 2–18–64, Cl. 70—150.
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Webster, George R., to Union Carbide Corp. Storage of low pressure gases. 3,163,013, 12–29–64, Cl. 62—45.

Webster, James D., to The Fred. Gretsch Mfg. Co. Muting device for stringed musical instruments. 3,134,288, 5–26–64, Cl. 84—311.
Webster, James D., to The Fred Gretsch Mfg. Co. Tremolo device for stringed musical instruments. 3,162,083, 12–22–64, Cl. 84—313.
Webster, James M. Lap boards. 3,147,949, 9–8–64, Cl. 248—463.
Webster, James R., G. E. Houghton, and T. L. Veit, to Garlock Inc. Impregnated braided packing and method of making the same. 3,124,032, 3–10–64, Cl. 87—1.
Webster, John W., to D. B. Frampton & Co. Method of fabricating composite panels. 3,144,892, 8–18–64, Cl. 144—318.
Webster, Kenneth E., and D. B. Smith, to Combustion Engineering, Inc. Horizontal steam generator with a riser manifold. 3,123,053, 3–3–64, Cl. 122—34.
Webster, Milo E., to Bernz O Matic Corp. Pressure container closure construction with means for attaching a tap connection thereto. 3,127,072, 3–31–64, Cl. 222—394.
Webster, Milo E., to Bernz O Matic Corp. Safety valve arrangement for pressurized containers. 3,155,292, 11–3–64, Cl. 222—397.
Webster, Owen W., to E. I. du Pont de Nemours and Co. Pentacyanoethane and its salts. 3,144,478, 8–11–64, Cl. 260—465.8.
Webster, Paul B., to National Mfg. Corp. Inserting machine for the contents of envelopes. 3,131,519, 5–5–64, Cl. 53—117.
Webster, Richard R.: *See*—
Laycak, John F., and Webster. 3,157,952.
Webster, Roger H. Detachable pole holder. 3,145,005, 8–18–64, Cl. 248—40.
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Cleminshaw, William T., and Webster. 3,154,095.
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Baltes, Josef, Wechmann, and Weghorst. 3,162,658.
Wechter, William J., to The Upjohn Co. 3,11-dioxygenated-17-desoxy-5β-androstanes and processes therefor. 3,132,-160, 5–5–64, Cl. 260—397.3.
Wechter, William J., to The Upjohn Co. 20-ketals of 3-hydroxy-5β-pregnan-20-one. 3,152,121, 10–6–64, Cl. 260—239.55.
Wechter, William J., to The Upjohn Co. 24-Dehydro cholesterol analogs and the process for the preparation thereof. 3,152,152, 10–6–64, Cl. 260—397.2.
Weckesser, Charles L., to The Norwich Pharmacal Co. Vaginal applicator. 3,154,075, 10–27–64, Cl. 128—240.
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Weckesser, Ethan, to Weckesser Co. Wedge-lock band clamp. 3,149,808, 9–22–64, Cl. 248—74.
Weckwert, Horst, G. Oberländer, and G. Langs, to Klockner-Humboldt-Deutz Aktiengesellschaft. Gas turbine plant. 3,140,821, 7–14–64, Cl. 230—116.
Wed Enterprises, Inc.: *See*—
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Wedan, Donald R., to Minnesota Mining and Mfg. Co. Apparatus for spraying heat fusible pulverulent material. 3,159,348, 12–1–64, Cl. 239—85.
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Duffin, Walter M., and Weddle. 3,132,994.
Weddle, Von C. Container for storage and transportation of long stem roses. 3,127,011, 3–31–64, Cl. 206—45.34.
Wedel, Erwin, to Minnesota Mining and Mfg. Co. Thermographic copy machine comprising means to tension the sheet composite in the irradiation zone. 3,129,328, 4–14–64, Cl. 250—65.
Wedell, Hans, to Bohme Fellchemie G.m.b.H. Condensation products of polyalkylene-polyamines and esters of high molecular carboxylic acids. 3,122,504, 2–25–64, Cl. 252—8.75.
Wedemeyer, Karlfried: *See*—
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Wedepohl, Peter T.: *See*—
Custers, Jan F. H., Senior, Dyer, and Wedepohl. 3,124,-422.
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Wedgelock Corp. of California: *See*—
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Harwood, Malcolm P. 3,139,785.
Harwood, Malcolm P. 3,144,804.
Lee, James H. 3,144,805.
Lee, James H. 3,155,385.
Stewart, Kenneth V. 3,162,072.
Wedig, Frank L. Jr.: *See*—
Crosno, Philip M., and Wedig. 3,158,857.
Wedin, Agne B. Heat insulating and ventilating garment. 3,122,754, 3–3–64, Cl. 2—113.
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Weech, Marx E., to Chrysler Corp. High temperature furnace for treating refractory materials with metals and intermetallic compounds. 3,139,474, 6–30–64, Cl. 13—31.
Weech, Marx E., and D. E. Theis, to Chrysler Corp. Process for obtaining metal carbide coatings on base materials and metal carbide structures produced thereby. 3,151,852, 10–6–64, Cl. 263—47.
Weed, Gehres D., and W. F. Bennett. Metallic roof construction. 3,118,252, 1–21–64, Cl. 50—209.
Weed, Mark B., to E. I. du Pont de Nemours and Co. Herbicidal composition and method. 3,152,880, 10–13–64, Cl. 71—2.5.
Weeden, Frank G., Jr.: *See*—
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Sellars, Franklin T., and Weeden. 3,143,147.
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Blain, Robert L. 3,129,090.
Weedon, Basil C. L., and C. K. Warren, to National Research Development Corp. Carotenoid compounds. 3,124,615, 3–10–64, Cl. 260—586.
Weedon, Basil C. L., and M. Akhtar, to National Research Development Corp. Process of producing carotenoids. 3,144,487, 8–11–64, Cl. 260—586.
Weekes, Martin E., to Charles Meriam Co., Inc. Manometer system. 3,118,305, 1–21–64, Cl. 73—401.
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Choate, Paul V., and Weeks. 3,138,064.
Weeks, Joe T. Line stoppers or the like. 3,129,687, 4–21–64, Cl. 114—199.
Weeks, Lloyd E., and R. J. McManimie, to Monsanto Co. Polymerization of olefins in the presence of a Ziegler type catalyst plus a surfactant. 3,159,615, 12–1–64, Cl. 260—94.9.
Weeks, Richard C. Code dating machine. 3,118,372, 1–21–64, Cl. 101—332.
Weeks, Walter R., to General Electric Co. Thermally responsive cam-controlled cycling switch. 3,149,214, 9–15–64, Cl. 200—136.3.
Weemhoff, Jay R., to Collins & Aikman Corp. Reinforcing waist band structure. 3,129,434, 4–21–64, Cl. 2—236.
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Weeton, John W., D. L. McDanels, R. W. Jech, R. E. Oldrieve, D. W. Petrasek, and R. A. Signorelli, to United States of America, National Aeronautics and Space Administration. Method of making fiber reinforced metallic composites. 3,138,837, 6–30–64, Cl. 22—203.
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Wegener, Edward F. and T. H. Vehicle towing devices. 3,152,814, 10–13–64, Cl. 280—479.
Wegener, Howard W. Sump and nozzle for soldering machines. 3,151,592, 10–6–64, Cl. 113—126.
Wegener, Rolf, to Telefunken Patentverwertungs-G.m.b.H. Electrical device. 3,154,755, 10–27–64, Cl. 334—43.
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Wegener, Edward F. and T. H. 3,152,814.
Wegerdt, Fritz. Hydraulic drive for producing linear intermittent reciprocatory motions of a machine tool. 3,154,923, 11–3–64, Cl. 60—52.
Wegerdt, Fritz, and M. Weber, to Hydrel A.G. Hydraulic transmissions. 3,150,490, 9–29–64, Cl. 60—52.
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Sasse, Klaus, Wegler, and Unterstenhöfer. 3,157,654.
Schäfer, Werner, Wegler, and Eue. 3,123,460.
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Wegman, Laurence J. Cartridge refilling device for caulking guns and the like. 3,134,407, 5–26–64, Cl. 141—18.
Wegmann, Ludwig, J. Bruckschen, and H. Weber, to Damag Aktiengesellschaft. Replacement of roll stands in rolling mills. 3,136,182, 6–9–64, Cl. 80—1.
Wegmueller, Hans E.: *See*—
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Wegner, Claude, to A. H. and A. K. Griep. Indicator instrument. 3,117,569, 1–14–64, Cl. 128—2.
Wehlann, Gerald E.: *See*—
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Wehlin, Egon, and B. Andersson, to Allmanna Svenska Elektriska Aktiebolaget. Method for making chains. 3,134,009, 5–19–64, Cl. 219—52.
Wehlow, Karl-Otto, F. Woyt, and H. Renner, to Rheinmetall G.m.b.H., Firma. Spin-stabilized rocket projectile. 3,144,-828. 8–18–64, Cl. 102—49.
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Wehner, Albert. Dewatering apparatus. 3,126,819, 3–31–64, Cl. 100—121.
Wehner, Alfred P., to Socony Mobil Oil Co., Inc. Electrostatic mixing microbial conversions. 3,131,131, 4–28–64, Cl. 195—51.
Wehner, Donald C., to American Cyanamid Co. Method of controlling algae with alkylguanidine salts. 3,142,615, 7–28–64, Cl. 167—22.
Wehr, Franklin H., to Rice Growers Association of California. Rice huller having a feed screw on the hulling cylinder. 3,131,740, 5–5–64, Cl. 146—302.
Wehrli, Kurt, and F. Hartmann. Step-by-step mechanism, in particular for driving digit rollers and type wheels. 3,147,-917, 9–8–64, Cl. 235—91.
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Wehrmeister, Herbert L., to Commercial Solvents Corp. Production of oximes. 3,124,613, 3–10–64, Cl. 260—566.
Wehrmeister, Herbert L., to Commercial Solvents Corp. Periodate oxidation of oxazolines. 3,128,295, 4–7–64, Cl. 260—410.9.
Wei, Peter E., and J. Rehner, Jr., to Esso Research and Engineering Co. N-halobenzoquanamine vulcanizing agents for saturated elastometers. 3,128,263, 4–7–64, Cl. 260—41.
Wei, Peter E., and J. Rehner, Jr., to Esso Research and Engineering Co. Halogenated fulvalene vulcanizing agents for saturated elastomers. 3 136,734, 6–9–64, Cl. 260—41.
Weibull, Claes M., to Ingeniorsfirman Nils Weibull AB. Silos. 3,134,629, 5–26–64, Cl. 302—50.
Weicher, Sidney, and A. Einbinder, to Inland Paper Products Corp. Adhesive-strip-applying apparatus. 3,125,006, 3–17–64, Cl. 93—1.
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Weichman, Roger L., and W. L. Fierce, to The Pure Oil Co. Preparation of urea nitrate. 3,141,039, 7–14–64, Cl. 260—553.
Weick, Heins H. Composite tool structure. 3,119,423, 1–28–64, Cl. 145—50.
Weidauer, Curt, to S. Briskman. Device for lapping the cutting edges of pinking shears. 3,130,521, 4–28–64, Cl. 51—26.
Weidel, Robert A., to Bausch & Lomb Inc. Infrared transmitting glasses. 3,145,115, 8–18–64, Cl. 106—52.
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Weidig, Miles, to The Carlton Machine Tool Co. Hydraulic mechanism. 3,151,719, 10–6–64, Cl. 192—85.
Weidinger, Hans, G. Lange, and G. Wellenreuther, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Water-soluble azo dyes containing a quinazoline radical. 3,154,532, 10–27–64, Cl. 260—154.
Weidinger, Hans, and H. G. Haese, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Azo vat dyes. 3,157,631, 11–17–64, Cl. 260—154.
Weidmuller, C. A., K.G.: *See*—
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Weidner, Everett L., to Dravo Corp. Cantilever form for casting concrete. 3,154,832, 11–3–64, Cl. 25—131.
Weien, Paul. Molding machine. 3,153,808, 10–27–64, Cl. 17—26.
Weien, Paul. Molding machine. 3,153,809, 10–27–64, Cl. 17—32.
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Weiertz, Axel H. Automobile stabilizer with servo steering action. 3,133,744, 5–19–64, Cl. 280—96.2.
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Weil, Edward D., to Hooker Chemical Corp. Separation of 2,3,6-trichlorobenzoic acid from a mixture of trichlorobenzoic acids. 3,159,673, 12–1–64, Cl. 260—525.
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Weil, Edward D., J. S. Newcomer, and E. Dorfman, to Hooker Chemical Corp. Synergistic herbicidal composition and method. 3,154,396, 10–27–64, Cl. 71—2.5.
Weil, Edward D., J. Linder, E. Dorfman, and J. S. Newcomer, to Hooker Chemical Corp. Synergistic herbicidal composition and method employing a trichlorobenzyl-oxyalkanol and a chlorinated aliphatic acid or ester thereof. 3,154,-399, 10–27–64, Cl. 71—2.7.
Weil, Edward D., E. J. Geering, and K. J. Smith, to Hooker Chemical Corp. Nematocidal use of tetrahaloethylsulfenyl halide. 3,156,611, 11–10–64, Cl. 167—22.
Weil, Edward D., and D. W. Young, to Hooker Chemical Corp. Method for controlling fungi with bis(pentachlorocyclopentadienyl). 3,158,536, 11–24–64, Cl. 167—30.
Weil, Edward D., and J. Linder, to Hooker Chemical Corp. Herbicidal N-substituted arylimides. 3,158,650, 11–24–64, Cl. 260—562.
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Weinberg, Bernard D. Electric motor drive for a fishing reel. 3,126,166, 3–24–64, Cl. 242—84.1.

Weinberg, Daniel I., to Astra, Inc. Fluid pressure gauge. 3,149,492, 9–22–64, Cl. 73—393.
Weinberg, Edward M. Recording and dispensing device. 3,126,129, 3–24–64, Cl. 222—94.
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Weiner, Albert P., to General Electric Co. Fine tuning apparatus for a television receiver. 3,150,338, 9–22–64, Cl. 334—51.
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Weingart, Richard I. N. Contract issuing machine. 3,117,-807, 1–14–64. Cl. 282—7.
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Weipert, Eugene A., and W. W. Levis, Jr., to Wyandotte Chemicals Corp. Methylation of piperazines. 3,154,552, 10–27–64, Cl. 260—268.
Weinreich, Karl E. G. Bridge for stringed musical instruments. 3,120,145, 2–4–64, Cl. 84—307.
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Sorger, Gunther U. 3,158,808.
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Weinschenk, Albert, to E. G. Henkel. Device for pulling-over and wiping-in the uppers of shoes. Re. 25,596, 6–9–64, Cl. 12—10.1.
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Weinstock, Joseph, and V. D. Wiebelhaus, to Smith Kline & French Laboratories. 2,5,7-triamino-4-phenyl (or thienyl)-pyrimido[4,5-d]pyrimidines. 3,134,778, 5–26–64, Cl. 260—256.4.
Weinstock, Kermit V., to The General Tire and Rubber Co. Process for preparing stable dispersible accelerator masterbatch. 3,137,680, 6–16–64, Cl. 260—79.5.
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Weir, Donald G., and J. L. Luke. Combination camping outfit. 3,158,299, 11–24–64, Cl. 224—25.
Weir, Edward A., and F. H. A. Mee, to The De Havilland Aircraft of Canada, Ltd. Coilable tube device. 3,144,104, 8–11–64, Cl. 189—34.
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Arkless, George F., and Randell. 3,128,709.
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Weir, James F., to M-B Corp. Sweeper attachment. 3,156,-937, 11–17–64, Cl. 15—80.
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Mandelbaum, Robert, and Weis. 3,155,049.
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Weisbach, Jerry A., to Smith Kline & French Laboratories. 1 - naphthylmethyl - 2 - lower alkyl - 1,2,3,4 - tetrahydroisoquinolines. 3,153,043, 10–13–64, Cl. 260—288.
Weisbeck, George T. Bath hood. 3,119,122, 1–28–64, Cl. 4—162.
Weisberg, Leonard R. Containers with internal, interlocking protrusions. 3,160,323, 12–8–64, Cl. 222—107.
Weisberg, Mark, and F. P. Butler, to Eltex Chemical Corp. Selective stripping of electroplated metals. 3,163,524, 12–29–64, Cl. 75—103.
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Weisenberger, Robert A., Sr., to General Motors Corp. Plastic trim molding clip with protective flange. 3,127,965, 4–7–64, Cl. 189—88.
Weisenborn, Frank L., to Olin Mathieson Chemical Corp. A-norpregna-3,6-diene-2,20-dione. 3,141,044, 7–14–64, Cl. 260—586.
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Weiskopf, Edwin C., to Technicon Instruments Corp. Proportioning pump. 3,128,717, 4–14–64, Cl. 103—149.
Weisman, Benjamin. Tobacco smoke filters comprising perlite. 3,117,580, 1–14–64, Cl. 131—208.
Weisman, Maurice. Means for brewing individual servings of coffee in a cup. 3,139,344, 6–30–64, Cl. 99—77.1.
Weisner, Edward F., C. C. Woolsey, Jr., and R. J. Gimera, to North American Aviation, Inc. High temperature reactor fuel element. 3,152,049, 10–6–64, Cl. 176—40.
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Weiss, Arthur J., to Continental Can Co., Inc. Can carrier with reinforcing means. 3,128,034, 4–7–64, Cl. 229—40.
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Weiss, Benjamin. Finger ring of arcuate members snap-fitted together prior to soldering. 3,127,757, 4–7–64, Cl. 63—15.7.
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Weiss, Ernst, and R. A. Prokesch, to E. I. du Pont de Nemours and Co. Process for crimping textile yarn. 3,156,028, 11–10–64, Cl. 28—72.
Weiss, Erwin M., to Beltone Electronics Corp. Electroacoustic transducers. 3,159,719, 12–1–64, Cl. 179—110.
Weiss, Fred A. Jr., and J. E. and W. F. Bookhamer. Floating dock and method of constructing same. 3,147,727, 9–8–64, Cl. 114—.5.
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Weiss, Hubert L. Portable power system. 3,144,502, 8–11–64, Cl. 174—52.
Weiss, Hugh R., to The Pantasote Co. Molded plastic tray. 3,121,507, 2–18–64, Cl. 220—23.8.
Weiss, Hugh R., to The Pantasote Co. Fruit tray. 3,143,-237, 8–4–64, Cl. 217—26 5
Weiss, Irving F., to E.C.P. Mfg. Co. Wireway with adjustable width sidewalls. 3,156,765, 11–10–64, Cl. 174—101.
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Weiss, Joseph. Driving mechanism. 3,136,144, 6–9–64, Cl. 64—30.
Weiss, Joseph. Switch controlling governor. 3,160,017, 12–8–64, Cl. 73—507.
Weiss, Karl R., to National Research Development Corp. Wheels and the tracks and tread bands of wheels. 3,140,-899, 7–14–64, Cl. 305—5.
Weiss, Malcolm A., E. S. Cohen, and G. G. Binder, Jr., to Jersey Production Research Co. Method of underground burning. 3,138,203, 6–23–64, Cl. 166—4.
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Wendt, Kenneth W., and E. Krabbe, to Miller Brewing Co. Sequential fermentation process for the production of alcoholic cereal beverages. 3,123,475, 3–3–64, Cl. 99—31.

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Whateley, Eric A., and S. H. Ashby, to Auto Transmission Ltd. Control means for epicyclic power transmission mechanisms. 3,146,637, 9–1–64, Cl. 74—781.
Whately, Walter R., to American Cyanamid Co. Treatment of titanium dioxide. 3,127,280, 3–31–64, Cl. 106—300.
Whately, Walter R., to American Cyanamid Co. Titanium dioxide pigments. 3,141,788, 7–21–64, Cl. 106—300.
Whatley, Allan, Jr., to E. I. du Pont de Nemours and Co. Pouch. 3,120,336, 2–4–64, Cl. 229—66.
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Whatley, Louis B. Sprinkling device. 3,145,880, 8–25–64, Cl. 222—196.4.
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Whearley, Robert L., to Rea Magnet Wire Co., Inc. Method of manufacturing encapsulated electrical units. 3,147,540, 9–8–64, Cl. 29—155.57.
Wheat, Robert C., to Phillips Petroleum Co. Altering dimension of vulcanized trans-poly-butadiene and heating to cause same to approach original shape. 3,139,468, 6–30–64, Cl. 264—230.
Wheatley, Charles, Co.: *See*—
Fitzpatrick, John R. 3,144,045.
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Wheatley, Frank, Jr., to Frank Wheatley Pump & Valve Mfr. Check valve. 3,143,136, 8–4–64, Cl. 137—527.8.
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Wheatley, William A., and J. F. Walker, to Electronic Assistance Corp. Air elimination method and apparatus. 3,157,011, 11–17–64, Cl. 53—22.
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Wheaton, Herbert F., to American Flange & Mfg. Co. Inc. Snap-on container closure and combinations. 3,131,827, 5–5–64, Cl. 220—60.
Wheaton, Robert M., and L. E. McMahon, to The Dow Chemical Co. Low capacity sulfonated cation exchanger resins. 3,133,030, 5–12–64, Cl. 260—2.2.
Wheaton, William L. C. Automobile roof mounted bicycle carrier. 3,137,422, 6–16–64, Cl. 224—42.1.
Wheelabrator Corp., The: *See*—
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Wheeler, Albert F. J., to Imperial Chemical Industries Ltd. Herbicidal composition and method of controlling grasses and broadleaved weeds therewith. 3,150,954, 9–29–64, Cl. 71—2.5.
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Wheeler, Edward N., G. J. Fisher, and A. W. Schnizer, to Celanese Corp. of America. Recovery of acrylic acid esters by water washing and fractionation. 3,157,693, 11–17–64, Cl. 260—486.
Wheeler, Edwin L., to Datex Corp. Encoder. 3,149,322, 9–15–64, Cl. 340—347.
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Wheeler, Harry L., Jr., to California Institute Research Foundation. Porous wall construction. 3,123,446, 3–3–64, Cl. 29—183.
Wheeler, James C., to Defiance Printed Circuit Corp. Fixture for printed circuit boards. 3,159,127, 12–1–64, Cl. 113—99.
Wheeler, James D., to Brasco Mfg. Co. Door frame construction. 3,141,204, 7–21–64. Cl. 20—11.
Wheeler, James D., and P. H. Anderson, Jr., to Brasco Mfg. Co. Door closing control mechanism. 3,124,848, 3–17–64, Cl. 20—16
Wheeler, James E. Building construction. 3,153,302, 10–20–64, Cl. 50—49.
Wheeler, James E. Building construction. 3,153,303, 10–20–64, Cl. 50—49.
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Wheeler, Marshall L., Jr., to Union Carbide Corp. Process for the transesterification of alkoxy-containing organosilicon compounds. 3,133,111, 5–12–64, Cl. 260—448.8.
Wheeler, Myron S., to United States of America, Navy. Spiral antenna with spiral reflecting cavity. 3,131,394, 4–28–64, Cl. 343—895.
Wheeler, Ralph R. Auto pressure cooler and ventilator. 3,162,112, 12–22–64, Cl. 98—2.
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Gunthel, Alfred B., Jr., and Wheeler. 3,137,764.
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Wheeley, Benton O., to Koppers Co., Inc. Self-adhering decorative surface tiles and method of making the same. 3,135,647, 6–2–64, Cl. 161—236.
Wheelock, Charles E., to Phillips Petroleum Co. Printing on polymer surfaces. 3,160,514, 12–8–64, Cl. 117—38.
Wheelock, Clifford W., to United States of America, Atomic Energy Commission. Nuclear reactor fuel assembly. 3,121,666, 2–18–64, Cl. 176—54.
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Wherry, William F. Model train switching mechanism. 3,143,976, 8–11–64, Cl. 104—153.
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Whipp, Albert E. Manually operated multiple nut runner. 3,133,462, 5–19–64, Cl. 81—57.
Whipple, Thomas T., O. C. Schauble, and L. A. Mekler, to The Lummus Co. Burner assembly for synthesis gas generators. 3,121,457, 2–18–64, Cl. 158—104.
Whipple, Thornton W., to E. H. Titchener & Co. Connection block retainers for panel board holders. 3,145,325, 8–18–64. Cl. 317—99.
Whipple, Walter L. Fixture holder. 3,131,928, 5–5–64, Cl. 269—224.
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Cox, Everett F. 3,146,600.
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Frick, Harold L. 3,153,407.
Frohbieter, Edwin H. 3,143,866.
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Phillips, Benjamin A., and Roeder. 3,134,245.
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Whistler, Lawrence V., Sr., and L. V. Whistler, Jr. Method and apparatus for aligning punch and die retainers. 3,126,776, 3–31–64, Cl. 83—13.
Whistler, Lawrence V., Sr., and L. V. Whistler, Jr. Punch and die mounting device. 3,137,193, 6–16–64, Cl. 83—685.
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Whitacre, Francis M. Float position indicator. 3,147,619, 9–8–64, Cl. 73—209.
Whitacre, John R., and J. J. Bulloff, to The Commonwealth Engineering Co. of Ohio. Gas plating electrically conductive metals on fibers for antistatic purposes. 3,129,487, 4–21–64, Cl. 28—75.
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Whitcomb, William C., to Midland-Ross Corp. Clamp for conduit couplings. 3,151,373, 10–6–64, Cl. 24—279.
White, Allen A., to Hesston Mfg. Co., Inc. Reversible power drive and steering structure. 3,133,455, 5–19–64, Cl. 74—720.5.
White, Andrew J. Brake having means to indicate wear. 3,138,224, 6–23–64, Cl. 188—78.
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Hollister, Robert, and White. 3,157,338.
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White, Cecil F. Bale press. 3,159,097, 12–1–64, Cl. 100—214.
White, Charles C., and R. E. Donaldson, to Eastman Kodak Co. Textile lubricant composition. 3,161,594, 12–15–64, Cl. 252—8.8.
White, Charles E., to Outboard Marine Corp. Garden tiller. 3,123,149, 3–3–64, Cl. 172—42.
White, Charles J. Oil change prompter and coin-bill holder. 3,138,244, 6–23–64, Cl. 206—.81.
White, Charles L. Adjustable tuning indicator for pedal-tuned kettledrums. 3,163,076, 12–29–64, Cl. 84—419.
White, Charles S. Low friction surfaces provided under pressure. 3,125,004, 3–17–64, Cl. 92—155.
White, Charles S. Elements having low friction pressure engagement and method of construction. 3,131,978, 5–5–64, Cl. 308—238.
White, David E., to Minneapolis-Honeywell Regulator Co. Semiconductor inverter circuit with means to preset the core flux of the transformer. 3,133,241, 5–12–64, Cl. 321—45.
White, David H., to Raytheon Co. Traveling wave oscillator stages. 3,148,340, 9–8–64, Cl. 331—56.
White, David S. Archery bow sight utilizing optical range-finder and coupled sighting element. 3,163,697, 12–29–64, Cl. 88—2.4.
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White, Edward A., and O. L. Norman, to International Minerals & Chemical Corp. Method for preparing potassium sulfide. 3,129,058, 4–14–64, Cl. 23—137.
White, Edward A., Jr., to United States of America, Navy. Magnetohydrodynamic generator. 3,156,433, 11–10–64, Cl. 244—1.
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White, Emery A., R. W. Austad, and A. J. Trangle, to General Electric Co. Electronic data processor. 3,161,857, 12–15–64, Cl. 340—172.5.
White, Eric L. C., to Electric & Musical Industries Ltd. Electrical circuits for sensing the relative position of two parts. 3,160,803, 12–8–64, Cl. 318—28.
White, Eric L. C., G. N. Hounsfield, and K. G. Huntley, to Electric & Musical Industries Ltd. Radar apparatus. 3,120,661, 2–4–64, Cl. 343—11.
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White, Howard T., to Fostoria Corp. Motor driven pumps. 3,119,343, 1–28–64, Cl. 103—87.
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White, Howard T., to Fostoria Corp. Motor driven pumps. 3,127,530, 3–31–64, Cl. 310—54.
White, Howard T., Fostoria Corp. Motor driven pumps. 3,138,105, 6–23–64, Cl. 103—87.
White, Howard T., to Fostoria Corp. Motor driven pumps. 3,163,790, 12–29–64, Cl. 310—54.
White, Hugh A. Electron tube design. 3,134,922, 5–26–64, Cl. 313—268.
White, Ira M., to Baldwin-Lima-Hamilton Corp. Butterfly valve. 3,144,040, 8–11–64, Cl. 137—315.
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White, James, to Bemis Bro. Bag Co. Packaging. 3,161,212, 12–15–64, Cl. 141—314.
White, James C., to Propper Mfg. Co., Inc. Device for inserting tabs into identification bracelets. 3,157,941, 11–24–64, Cl. 29—241.
White, James F. Fireplace crane. 3,139,882, 7–7–64, Cl. 126—137.
White, James F. Sling strap retainer. 3,153,791, 10–27–64, Cl. 2—2.
White, James F. Combination hunter-fisher survival unit. 3,154,063, 10–27–64, Cl. 124—20.
White, James P. Device for altering tone quality in electronic musical instrument or the like. 3,147,334, 9–1–64, Cl. 84—1.25.
White, John K. B., deceased; V. White, administratrix, to Harris & Sheldon (Display) Ltd. Support stand. 3,146,892, 9–1–64, Cl. 211—178.
White, John L., 60% to Jacwill Mfrs., a partnership and 40% to Bruce Elder. Casket interior structure. Re. 25,545, 3–31–64, Cl. 27—19.
White, John W., to M. M. Kelly. Apparatus for making cellular products. 3,118,958, 1–21–64, Cl. 261—87.
White, Jonathan W., Jr., C. L. Farrar, F. E. Moeller, and A. W. Woodrow, to United States of America, Agriculture. Method of repelling bees with acetic and propionic acids. 3,122,473, 2–25–64, Cl. 167—22.
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White Motor Co., The: *See*—
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Tupman, Kenneth, and White. 3,125,511.
White, Raymond A., to The Dentists' Supply Co. of New York. Valve control for dental handpiece. 3,125,809, 3–24–64, Cl. 32—27.
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White, Richard M., to General Electric Co. High frequency energy interchange apparatus. 3,126,497, 3–24–64, Cl. 315—3.5.
White, Richard M., to General Electric Co. Rectangular to ridged waveguide transition having separate mode converting and impedance matching sections. 3,157,845, 11–17–64, Cl. 333—21.
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Seymour, James E., and White. 3,150,957.
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White, Robert G. Method and apparatus for making rolls. 3,146,730, 9–1–64, Cl. 107—4.
White, Robert G., to Tektronix, Inc. Coaxial connector and switch combination. 3,150,247, 9–22–64, Cl. 200—153.
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Woods, William C., and Eldridge. 3,154,654.
White, Roger F., to Thiokol Chemical Corp. Valve. 3,141,648, 7–21–64, Cl. 251—163.
White, Roger F., J. F. Davies, and B. Schulkin, to Thiokol Chemical Corp. Rocket engine. 3,151,448, 10–6–64, Cl. 60—35.6.
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White Sewing Machine Corp.: *See*—
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White, Theodore Z., and R. M. Thorpe, to Ford Motor Co. Cooling system. 3,139,073, 6–30–64, Cl. 123—41.29.
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White, Wilfred S. J., to Decca Ltd. Hyperbolic radio navigation system. 3,158,863, 11–24–64, Cl. 343—105.
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White, William J., to International Research and Development Corp. Dynamic balancing apparatus. 3,124,005, 3–10–64, Cl. 73—471.
White, William J., to International Research & Development Corp. Dynamic balancing apparatus. 3,136,162, 6–9–64, Cl. 73—477.
White, William J., to International Research and Development Corp. Mounting means for electromagnetic brake assembly. 3,148,751, 9–15–64, Cl. 188—164.
White, Wyman, to Ling-Temco-Vought, Inc. Means and method for producing image of papillary ridges. 3,138,059, 6–23–64, Cl. 88—24.
Whitecar, Alten E., to Smith Kline & French Laboratories. Device for winding up a continuous length of flexible material. 3,140,839, 7–14–64, Cl. 242—68.1.
Whitecotton, Graydon E. Method of making steel-rule type piercing and blanking dies. 3,152,492, 10–13–64, Cl. 76—107.
Whitefield, Harry, and M. Porta. Absorbing composition for tobacco smoke. 3,127,901, 4–7–64, Cl. 131—208.
Whiteford, Carlton L., to Poly-Pak Corp. of America. Hermetically sealed, transparent, shock absorbing package for fragile articles. 3,131,846, 5–5–64, Cl. 229—2.5.
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Wile, Daniel D., to Recold Corp. Refrigerated display and storage fixture. 3,139,737, 7–7–64, Cl. 62—256.

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Wilkins, Douglas B., and E. D. Hopkins, to Girling Ltd. Hydro-pneumatic suspension units for vehicles. 3,148,871, 9–15–64, Cl. 267—64.

Wilkins, John D., to Olin Mathieson Chemical corp. Method of making electric heaters. 3,137,924, 6–23–64, Cl. 29—155.5.

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Wilkinson, George F., Jr., to Western Electric Co., Inc. Apparatus for testing wave transmission lines including helical transmission line and wave distorting means. 3,161,-825, 12–15–64, Cl. 324—58.
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Wilkinson, Leonard A., to American Optical Co. Range finding gun sight. 3,123,915, 3–10–64, Cl. 33—50.
Wilkinson, Peter A., and J. C. Tebby, to Glaxo Group Ltd. Purification of pseudo-ionone. 3,161,684, 12–15–64, Cl. 260—593.
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Willard, Charles L., Jr. Machine for manufacturing torsion springs. 3,144,886, 8–18–64, Cl. 140—71.
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Willard, Frank G., and F. Di Nicolantonio, to Westinghouse Electric Corp. Alternate signal providing apparatus comprising logic elements. 3,121,842, 2–18–64, Cl. 328—57.
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Willecke, Gerhard K., and D. J. Corrigall, to Miller Electric Mfg. Co. Power supply for arc welding processes. 3,150,-312, 9–22–64, Cl. 323—89.
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Willems, Peter. Apparatus for treating material. 3,125,305, 3–17–64, Cl. 241—261.
Willems, Peter. Process and apparatus for oscillatory treatment of fusible materials. 3,161,402, 12–15–64, Cl. 259—8.
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Williams, Arthur J. Electrical plug with anti-shock prongs. 3,123,424, 3–3–64, Cl. 339—195.
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Williams, Beverly E., to Chas. Pfizer & Co., Inc. Processes for tenderizing meat employing water and gas under pressure. 3,119,696, 1–28–64, Cl. 99—107.
Williams, Beverly E., to Hodges Research and Development Co. Processes of tenderizing meat using ante-mortem enzyme injection and post-morten water injection. 3,122,-440, 2–25–64, Cl. 99—107.

Williams, Beverly E., to Hodges Development Corp. Method of treating edible animal carcasses. 3,124,467, 3–10–64, Cl. 99—179.

Williams, Beverly E., to Hodges Development Corp. Method of treating skinned animal carcasses. 3,124,468, 3–10–64, Cl. 99—174.

Williams, Beverly E., to Chas. Pfizer, & Co., Inc. Processes for reconstituting meat. 3,125,450, 3–17–64, Cl. 99—107.

Williams, Beverly E., to Hodges Research and Development Co. Processes for improving the flavor and tenderizing meat by ante-mortem injection of thamnidium and aspergillus. 3,128,191, 4–7–64, Cl. 99—107.

Williams, Beverly E., to Hodges Research and Development Co. Processes for aging and flavoring cooled meat in a confined zone with thamnidium and an antibiotic. 3,130,057, 4–21–64, Cl. 99—174.

Williams, Beverly E., to Chas. Pfizer & Co., Inc. Process for improving the texture of meat by aqueous injection containing cellulose gum. 3,147,122, 9–1–64, Cl. 99—107.

Williams, Beverly E., to Hodges Research and Development Co. Reinforced ramie shroud. 3,155,123, 11–3–64, Cl. 139—426.

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Williams, Charles. Installation equipment for successive elongated units. 3,156,036, 11–10–64, Cl. 29—203.

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Williams, Chester I. Form for producing concrete columns. 3,144,699, 8–18–64, Cl. 25—118.

Williams, Chester I. Method for continuous pouring of concrete. 3,152,198, 10–6–64, Cl. 264—33.

Williams, Chester I. Stress-gradient anchor. 3,160,988, 12–15–64, Cl. 50—181.

Williams, Chester I. and D.; said D. Williams assor. to said C. I. Williams. Rock anchor. 3,139,730, 7–7–64, Cl. 61—45.

Williams, Clyde D., and O. F. Forsburg. Container dispensing machine. 3,155,274, 11–3–64, Cl. 221—130.

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Williams, David W., to United Kingdom Atomic Energy Commission. Strain indicators for nuclear reactor fuel elements. 3,147,190, 9–1–64, Cl. 176—67.

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Williams, Edward B., Jr., ⅓ to E. B. Williams III, ⅓ to J. W. Williams, and ⅓ to D. B. Williams. Drill bit with tangential jet. 3,144,087, 8–11–64, Cl. 175—339.

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Williams, Edward B., Jr. 3,144,087.

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Williams, Frederic C., E. R. Laithwaite, and J. F. Eastham, to National Research Development Corp. Alternating current motor. 3,161,814, 12–15–64, Cl. 318—224.

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Williams, Frederick, and H. G. Bowditch, to Harrison, McGregor & Guest Ltd. Variable discharge crop harvester. 3,138,909, 6–30–64, Cl. 56—24.

Williams, Frederick P. Sewage tank and method of sewage treatment. 3,126,333, 3–24–64, Cl. 210—15.

Williams, Frederick P. Core member. 3,157,943, 11–24–64, Cl. 25—128.

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Williams, Harold W. Vials of plastic material. 3,117,691, 1–14–64, Cl. 220—60.

Williams, Harold W. Container with self contained dispensing means. 3,145,879, 8–25–64, Cl. 222—184.

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Williams, James C., Jr., ½ to Sunny Isle, Inc. Pleater assembly for sewing machine. 3,157,140, 11–17–64, Cl. 112—134.

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Williams, John H., to Oak Mfg. Co. Push button mechanism. 3,142,198, 7–28–64, Cl. 74—483.
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Williams, John K., to Central Texas Iron Works. Apparatus for delivering cotton bolls or like material and breaking trash mixed therewith. 3,163,471, 12–29–64, Cl. 302—37.
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Williams, Kenneth T., and J. M. Edwards, to Westinghouse Electric Corp. Heat treating method and apparatus for elongated workpieces. 3,148,093, 9–8–64, Cl. 148—131.
Williams, La Vergne H., to Gunver Mfg. Co. Skillet tipper. 3,143,330, 8–4–64, Cl. 248—351.
Williams, La Vergne E., to Radiation, Inc. Plural juxtaposed parabolic reflectors with frequency independent feeds. 3,147,479, 9–1–64, Cl. 343—792.5.
Williams, La Vergne E., to Radiation, Inc. Scanning antenna with power modulation. 3,153,787, 10–20–64, Cl. 343—100.
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Williams, Lloyd H., deceased; G. M. Williams, administratrix. Sealing device for building structure joints. 3,119,204, 1–28–64, Cl. 50—346.
Williams, Lloyd H., deceased, by G. M. Williams, administratrix. Sealed-joint construction for masonry block walls. 3,137,973, 6–23–64, Cl. 50—346.
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Williamson, Floyd M. Hydraulic die pads for presses. 3,124,341, 3–10–64, Cl. 267—1.

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Williamson, Floyd M., to National Bank of Detroit. Hydraulic cushions for dies of ram type presses. 3,163,144, 12–29–64, Cl. 113—45.

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Wilson, Charles P., Jr., F. G. Ciapetta, and J. B. Jones, to W. R. Grace & Co. Process for the preparation of silica-alumina cracking catalysts. 3,124,541, 3–10–64, Cl. 252—453.
Wilson, Charles P., Jr., F. G. Ciapetta, and J. W. Elston, Jr., to W. R. Grace & Co. Process for preparing a silica-magnesia-fluorine hydrocarbon cracking catalyst. 3,129,189, 4–14–64, Cl. 252—441.
Wilson, Charles P., Jr., F. G. Ciapetta, and J. W. Elston, Jr., to W. R. Grace, & Co. Preparation of a silica-alumina cracking catalyst. 3,131,156, 4–28–64, Cl. 252—455.
Wilson, Charles V.: *See*—
Jones, Jean E., Sagal, and Wilson. 3,128,183.
Wilson & Co., Inc.: *See*—
Pichler, Richard J. 3,126,294.
Wilson, David S., to Carrier Corp. Refrigeration system including metering and distributing means. 3,120,743, 2–11–64, Cl. 62—504.
Wilson, Don B.: *See*—
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Wilson, Douglas G., to General Motors Corp. Vehicle speed control. 3,116,807, 1–7–64, Cl. 180—82.1.
Wilson, Douglas G., to General Motors Corp. Transistorized static standby power supply. 3,119,057, 1–21–64, Cl. 321—19.
Wilson, Douglas S.: *See*—
Colby, Ralph S., Kakatsakis, and Wilson. 3,153,926.
Wilson, Edward D. Electrically ignited gas torch. 3,155,140, 11–3–64, Cl. 158—27.4.
Wilson, Edward T., to Combustion Engineering, Inc. Air seal for rotary heat exchanger. 3,155,154, 11–3–64, Cl. 165—9.
Wilson, Eldon M.: *See*—
Northrop, John K., and Wilson. 3,120,830.
Wilson, Everett E. Propeller device. 3,124,200, 3–10–64, Cl. 170—135.
Wilson, Farris H., Jr., to The Goodyear Tire & Rubber Co. Reaction of aromatic amines with para halo nitrobenzenes using copper cyanide condensation catalyst. 3,155,727, 11–3–64, Cl. 260—571.
Wilson, Fraser. Railway car coupler. 3,160,286, 12–8–64, Cl. 213—75.
Wilson, Frederick J., Jr. Tool bits and holders for metal working tools. 3,123,896, 3–10–64, Cl. 29—96.

Wilson, Frederick J., Jr., to The Apex Tool & Cutter Co., Inc. Disposable bit locating tool. 3,123,897, 3–10–64, Cl. 29—96.
Wilson & Garden Ltd.: *See*—
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Wilson, Gardner P., R. Stefansson, and A. Szymanski, to Clevite Corp. Means for applying timing marks. 3,150,-914, 9–29–64, Cl. 346—107.
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Steels, Gordon, and Wilson. 3,118,395.
Wilson, Glenn R. Lubricant containing phosphite additive. 3,126,343, 3-24-64, Cl. 252—49.8.
Wilson, Glenn R., and G. L. Ball, III, to Monsanto Research Corp. Dielectric medium containing tercyclohexyl. 3,129,-277, 4–14–64, Cl. 174—17.
Wilson, Gordon A., Jr., to McGraw-Edison Co. Switch actuating mechanism for speed responsive tap changers. 3,155,782, 11–3–64, Cl. 200—11.
Wilson, Harold W. Acidic fertilizer-containing slag. 3,145,-093, 8–18–64, Cl. 71—62.
Wilson, Harold W. Process for producing acidic soil conditioner containing chelated plant nutrients. 3,159,477, 12–1–64, Cl. 71—62.
Wilson, Harry H., and E. V. Carey; said Carey assor. to said Wilson. Food mixer. 3,123,343, 3–3–64, Cl. 259—109.
Wilson, Harry R., and H. G. Steinhagen, to The F. G. Hough Co. Dual performance torque converter transmission. 3,126,762, 3–31–64, Cl. 74—688.
Wilson, Helen O.: *See*—
Wilson, Hilding L. 3,117,181.
Wilson, Hilding L., deceased, by H. O. Wilson, administratrix. Support for power line conductor with overload release. 3,117,181, 1–7–64, Cl. 174—162.
Wilson, Hugh A.: *See*—
Cheshire, Max, and Wilson. 3,152,404.
Wilson, Jack, to Universal Railway Devices Co. Automatic slack adjuster. 3,136,393, 6–9–64, Cl. 188—198.
Wilson, Jack M., J. A. Radley, and E. D. Kahn, to International Standard Electric Corp. Methods of producing silicon of high purity. 3,130,013, 4–21–64, Cl. 23—223.5.
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Choate, William C., Atlas, and Wilson. 3,162,368.
Furey, Michael J., and Wilson. 3,129,580.
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Munday, John C., and Wilson. 3,141,113.
Wilson, James A., to Esso Research and Engineering Co. Supersonic liquid atomizer and electronic oscillator therefor. 3,121,534, 2–18–64, Cl. 239—102.
Wilson, James C.: *See*—
Rabby, Joseph G., and Wilson. 3,123,254.
Wilson, James H., to The General Fireproofing Co. Furniture structure. 3,123,399, 3–3–64, Cl. 297—239.
Wilson, James H., to United States Steel Corp. Method and apparatus for controlling a grinding mill. 3,145,935, 8–25–64, Cl. 241—24.
Wilson, James H., to Lever Brothers Co. Liquid detergent. 3,150,098, 9–22–64, Cl. 252—152.
Wilson, James L., to Wilson Metal Products, Inc. Frying apparatus. 3,159,344, 12–1–64, Cl. 236—20.
Wilson, James O.: *See*—
Shrock, Dallas A., and Wilson. 3,151,890.
Wilson, James S., to Mine Safety Appliances Co. Adjustable fluid pressure controlled valve. 3,121,552, 2–18–64, Cl. 251—61.
Wilson, James S., to Mine Safety Appliances Co. Positive pressure breathing apparatus. 3,138,152, 6–23–64, Cl. 128—29.
Wilson, James W.: *See*—
Loev, Bernard, and Wilson. 3,134,799.
Wilson, James W., to Smith Kline & French Laboratories. Substituted trifluoromethoxy- and trifluoromethylmercapto-phenothiazines. 3,133,917, 5–19–64, Cl. 260—243.
Wilson, Jay R. Puller for hydraulic valve lifter plungers. 3,120,701, 2–11–64, Cl. 29—213.
Wilson, John A., to Fahralloy Canada Ltd. Cast sand seal skirt rings. 3,129,934, 4–21–64, Cl. 263—49.
Wilson, John A., III, J. H. B. Kean, Jr., and J. R. Martin, to General Electric Co. Bladed rotor and baffle assembly. 3,119,595, 1–28–64, Cl. 253—77.
Wilson, John H. Crank assembly. 3,131,577, 5–5–64, Cl. 74—597.
Wilson, John H. Mechanism for making up and breaking out screw threaded joints of drill stem and pipe. 3,131,586, 5–5–64, Cl. 81—52.4.
Wilson, John H. Multi-drum winch. 3,158,355, 11–24–64, Cl. 254—173.
Wilson, John H. Telescoping substructure for drilling rigs. 3,161,259, 12–15–64, Cl. 182—141.
Wilson, John H. Mud pumps. 3,163,474, 12–29–64, Cl. 308—3.
Wilson, John H., Jr., to Socony Mobil Oil Co., Inc. Organophosphorus compounds as insecticides and nematocides. 3,162,570, 12–22–64, Cl. 167—22.
Wilson, John H., and A. P. Buzzini. Pipe spinning device. 3,122,211, 2–25–64, Cl. 173—164.
Wilson, John M. Combined guard and nail setting attachment for a claw hammer. 3,125,143, 3–17–64, Cl. 145—30.
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Gottschal, Auko J., Spearman, Wiechers, and Wilson. 3,149,062.
Wilson, John R., and E. D. Gerhardt, to Hanlon & Wilson Co. Expansible connection capable of expanding and contracting radially and axially. 3,151,894, 10–6–64, Cl. 285—158.
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Wilson, Joseph G., R. F. Dutton, T. W. Haymes, and J. C. Dygert, to Shell Oil Co. Combustion with fluidization and after-burning. 3,137,133, 6–16–64, Cl. 60—39.02.
Wilson, Joseph G., R. F. Dutton, T. W. Haymes, and J. C. Dygert, to Shell Oil Co. Combustion with fluidization and after-burning. 3,139,726, 7–7–64, Cl. 60—39.02.
Wilson, Joseph R., to Westinghouse Electric Corp. Apparatus for evaporating impure water. 3,147,598, 9–8–64, Cl. 60—64.
Wilson, Joseph W.: *See*—
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Wilson, Joseph W., and G. W. Geiger, to Reigel Paper Corp. Distribution plate for paper machine head box having taper-flow inlet. 3,119,733, 1–28–64, Cl. 162—336.
Wilson, Kenneth R.: *See*—
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Wilson, Kentner B., to United States of America, Air Force. Servo manipulator arm. 3,160,290, 12–8–64, Cl. 214—1.
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Wilson, Lawrence F., and V. Leipold, to Lapp Insulator Co., Inc. Leak detecting device. 3,131,638, 5–5–64, Cl. 103—44.
Wilson, Lester E., Jr., to High Voltage Engineering Corp. X-ray beam collimating apparatus. 3,151,245, 9–29–64, Cl. 250—105.
Wilson, Louis, to United States of America, Navy. Electrolytic detector cell with adjacent compartments containing protective compound. 3,117,259, 1–7–64, Cl. 317—231.
Wilson, Martin, to United States Borax & Chemical Corp. Method for beneficiating ores. 3,149,788, 9–22–64, Cl. 241—20.
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Spaulding, Carl P., and Wilson. 3,133,279.
Wilson, Mervyn F.: *See*—
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Wilson Metal Products, Inc.: *See*—
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Wilson, Nuttall, Raimond Engineers, Inc.: *See*—
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Wilson, Oran C., and R. L. Motter, to Wilson Plastic, Inc. Foot pedal. 3,151,498, 10–6–64, Cl. 74—560.
Wilson, Paul C. Method for making a fried sandwich. 3,143,-424, 8–4–64, Cl. 99—1.
Wilson, Paul H., to Minnesota Mining and Mfg. Co. Clamp. 3,157,556, 11–17–64, Cl. 156—583.
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Wilson Products, Inc.: *See*—
Brewer, Nathaniel. 3,141,575.
Wilson, Richard A., to General Motors Corp. Torsional vibration damper for disc brake or clutch. 3,146,860, 9–1–64, Cl. 188—72.
Wilson, Richard C., to United States of America, Navy. Span track-to-guide arm latch. 3,129,635, 4–21–64, Cl. 89—1.7.
Wilson, Richard C., to United States of America, Navy. Rammer mechanism for a loader. 3,145,618, 8–25–64, Cl. 89—1.7.
Wilson, Richard C. Water ski reel. 3,147,935, 9–8–64, Cl. 242—86.5.
Wilson, Richard L., to Westinghouse Air Brake Co. Fluid pressure brake apparatus with periodic acknowledgement type safety control. 3,160,445, 12–8–64, Cl. 303—19.
Wilson, Robert A. Library shelving system. 3,161,160. 12–15–64, Cl. 108—6.
Wilson, Robert A., and D. G. Engesser, to Esso Research and Engineering Co. Non-combustible wick. 3,121,316, 2–18–64, Cl. 67—21.
Wilson, Robert B. Cigarette holder. 3,143,115, 8–4–64, Cl. 131—198.
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Wilson, Robert H., to Imperial Chemical Industries Ltd. New stilbene compounds. 3,127,270, 3–31–64, Cl. 96—94.
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Wilson, Robert R., to Perfect Circle Corp. Piston ring. 3,134,602, 5–26–64, Cl. 277—203.
Wilson, Robert W., to R. H. Bouligny, Inc. Apparatus for bulk curing tobacco. 3,134,583, 5–26–64, Cl. 263—19.
Wilson, Robert W., to R. H. Bouligny, Inc. Apparatus for looping tobacco leaves in series interconnected hands and mounting the same on tobacco sticks and method of using the same. 3,146,896, 9–1–64, Cl. 214—5.5.
Wilson, Ronald M., to William M. Wilson's Sons, Inc. Register resetting mechanism. 3,129,883, 4–21–64, Cl. 235—144.

Wilson, Rosser L., and E. E. Caton, to American Brake Shoe Co. Railroad switch stands. 3,127,138, 3–31–64, Cl. 246—393.
Wilson, Rosser L., F. W. Creedle, and J. R. Wilhelm, to American Brake Shoe Co. Railroad car retarders. 3,132,-723, 5–12–64, Cl. 188—62.
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Gottwik, Carl K. 3,140,495.
Wilson, Rufus W., and J. M. Carruthers, to Wald Industries, Inc. Road striper. 3,148,883, 9–15–64, Cl. 239—150.
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Wilson, Sydney W.: *See*—
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Wilson, Theodore, to Midland Pharmaceuticals, Inc. Medicine dispenser. 3,119,561, 1–28–64, Cl. 239—309.
Wilson, Thomas E. Ventilated seat cushion. 3,123,838, 3–10–64, Cl. 5—347.
Wilson, Thomas P., and G. F. Hurley, to Union Carbide Corp. Process for the hydrogenation of naphthalene. 3,122,593, 2–25–64, Cl. 260—667.
Wilson, Wendell E., G. H. Doberstein, E. B. O'Neill, and C. A. Healey, to G. H. Doberstein. Switch and commutator type programming device. 3,155,783, 11–3–64, Cl. 200—26.
Wilson, Wilbert M., to George W. Helme Co. Method of preparing sublimate colloidal iodine. 3,158,332, 11–24–64, Cl. 241—5.
Wilson, Wilbert M., to George W. Helme Co. Fungistatic non-caking, substantially dust free, water leachable fertilizer. 3,158,462, 11–24–64, Cl. 71—4.
Wilson, Wilbert M., and W. B. Kinyon, to George W. Helme Co. Slurry colloidal zirconium oxide grinding process. 3,158,331, 11–24–64, Cl. 241—5.
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Wilson, William A., and A. C. Herrington, to Standard Oil Co. Multiple tracer tagging technique. 3,149,233, 9–15–64, Cl. 150—106.
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Wilson, William H. Dynamic balancing apparatus. 3,159,-050, 12–1–64, Cl. 74—573.
Wilson, William J. Safe inclination indicator for ladders. 3,118,234, 1–21–64, Cl. 33—207.
Wilson, William M., to Eastwood-Nealley Co. Fourdrinier wire and method of making the same. 3,146,801, 9–1–64, Cl. 139—425.
Wilson, William R., to Texas Instruments Inc. Electromechanical commutator with rolling contact-type structure. 3,119,907, 1–28–64, Cl. 200—24
Wilson, Woodrow S., to Polytop Corp. Closure. 3,163,337, 12–29–64, Cl. 222—534.
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Wiltgen, Bernard M., R. J. White, and T. Trainor, to Milesmaster Inc. of America. Plastic pressure regulator. 3,139,898, 7–7–64, Cl. 137—454.6.
Wilting, Johannes J., to North American Philips Co., Inc. Transistor voltage converter. 3,134,948, 5–26–64, Cl. 331—113.
Wilting, Johannes J., to North American Philips Co., Inc. Transistor voltage converter. 3,146,406, 8–25–64, Cl. 331—113.
Wilton, Henry T., to American Optical Co. Image projector with air circulating means. 3,117,489, 1–14–64, Cl. 88—24.
Wilton, Herbert C., and R. M. Holden. Alarm signal for parking meters. 3,148,826, 9–15–64, Cl. 232—1.
Wiltshire, Arthur J., to White Sewing Machine Corp. Method and apparatus for forming fiber reinforced tubes. Re. 25,587, 6–2–64, Cl. 264—114.
Wiltshire, Arthur J., to Structural Fibers, Inc. Fiber-reinforced plastic articles and method of making the same. 3,138,507, 6–23–64, Cl. 156—194.
Wiltshire, Arthur J., and R. C. Brussee, to Structural Fibers, Inc. Mat feathering apparatus. 3,133,684, 5–19–64, Cl. 225—101.
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Wimberly, Floyd T., W. W. McLeod, Jr., and K. M. Kramp, to Raytheon Co. Navigation systems. 3,150,365, 9–22–64, Cl. 343—9.
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Winbauer, Alois P. Ski sharpening tool. 3,159,951, 12–8–64, Cl. 51—170.
Winberg, Hilmer E., to E. I. du Pont de Nemours and Co. Selected N,N,N′-trisubstituted amidines and their preparation by reaction of compounds with —NH_2 groups with amide acetals. 3,121,084, 2–11–64, Cl. 260—268.
Winberg, Ragnar W. Belt assembly machine. 3,133,514, 5–19–64, Cl. 112—2.
Winberg, Ragnar W. Automobile seat belt delayed action release. 3,146,027, 8–25–64, Cl. 297—385.
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Wince, Vearl S., to Holophone Co., Inc. Luminaire. 3,147,-929, 9–8–64, Cl. 240—132.
Wince, Vearl S., to Holophane Co., Inc. Luminaire. 3,156,-419, 11–10–64, Cl. 240—147.
Wince, Vearl S., to Holophane Co., Inc. Recessed ceiling lighting fixture. 3,158,329, 11–24–64, Cl. 240—78.
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Winchel, Henry T., to Consolidated Electronics Industries Corp. Timing circuit. 3,133,204, 5–12–64, Cl. 307—88.5.
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Winchell, Frank J., and G. Caramanna, to General Motors Corp. Transmission shifter controls. 3,151,497, 10–6–64, Cl. 74—472.
Winchell, Paul. Hand pump for transferring liquids. 3,120,-192, 2–4–64, Cl. 103—152.
Winchell, Paul. Inverted novelty mask. 3,129,001, 4–14–64, Cl. 272—8.
Winchell, Paul, to Chelwin Productions, Inc. Non-bulging garter fastener. 3,128,477, 4–14–64, Cl. 2—335.
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Windall, Owen D. Golf practice device. 3,122,369, 2–25–64, Cl. 273—185.
Winder, Robert O., to Radio Corp. of America. Network for obtaining a threshold function utilizing majority gates in an array. 3,162,774, 12–22–64, Cl. 307—88.5.
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Windholz, Thomas B.: *See*—
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Windle, Jonathan W.: *See*—
Windle, Winfred W. and J. W. 3,140,735.
Windle, Winfred W. and J. W., to Windle Engineering Co., Inc. Horizontal bagging machine and lift. 3,140,735, 7–14–64, Cl. 141—73.
Windsor, Alfred A., to United States of America, Atomic Energy Commission. D.C. instrument transformer system. 3,136,948, 6–9–64, Cl. 324—127.
Windsor, Lynne E., to James B. Carter Ltd. Engine heater. 3,143,634, 8–4–64, Cl. 219—38.
Windsor, Richard T., to Hays Mfg. Co. Valve and means for attaching the same to a conduit. 3,131,953, 5–5–64, Cl. 285—189.
Windsor, Richard T., to Hays Mfg. Co. Valve with seating structure. 3,160,387, 12–8–64, Cl. 251—172.
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Wine, Charles M. Transmission line gating means for preventing spurious pulses from feeding back from output to input. 3,119,030, 1–21–64, Cl. 307—88.5.
Wine, Charles M., to Radio Corp. of America. Tunnel diode voltage multiplier. 3,142,765, 7–28–64, Cl. 307—88.5.
Wine, Charles M., and J. C. Miller, to Radio Corp. of America. Tunnel diode bipolar pulse pair generator. 3,142,766, 7–28–64, Cl. 307—88.5.
Wineman, Robert J., and G. J. Marco, to Monsanto Chemical Co. Method of controlling vegetation. 3,124,447, 3–10–64, Cl. 71—2.3.
Wineman, Robert J., and E. P. T. Hsu, to Monsanto Co. Preparation of DL-lysine. 3,136,672, 12–29–64, Cl. 260—534.

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Abalman, Alvin A. 3,137,008.

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Winfrey, James W., to Jersey Production Research Co. Automatic fluid flow remote indicating system. 3,131,385, 4–28–64, Cl. 340—239.

Winfrey, Vernon L., and W. C. Black, to Penick & Ford, Ltd. Method of treating starch with steam. 3,133,836, 5–19–64, Cl. 127—71.

Wing, Forrest E., ⅛ to F. C. Bissell, ⅛ to R. H. Mayer, and ⅛ to himself. Spray gun and nozzle. 3,141,584, 7–21–64, Cl. 222—309.

Wing, George S., to Kirk-Wing Co. Airfoil construction and method for making the same. 3,135,486, 6–2–64, Cl. 244—123.

Wing, George S., to Hi-Shear Rivet Tool Co. Two-part panel fastener having resilient retaining means for retaining a screw. 3,137,336, 6–16–64, Cl. 151—41.73.

Wing, George S., to Hi-Shear Corp. Fasteners. 3,138,987, 6–30–64, Cl. 85—61.

Wing, George S., and H. L. Bochman, Jr., to Hi-Shear Corp. Apparatus for finishing the external surface of extended bodies. 3,124,908, 3–17–64, Cl. 51—140.

Wing, George S., and M. M. Schuster, to Hi-Shear Corp. Blind fastener utilizing a distortable collar and having auxiliary locking means. 3,129,630, 4–21–64, Cl. 85—40.

Wing, George S., W. R. Dickie, and J. U. Berkl, to Hi-Shear Corp. Connector. 3,156,514, 11–10–64, Cl. 339—97.

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Wingerd, Winston H., and S. Saperstein, to The Borden Co. Carotenoid pigment and protein complex and method of producing the same. 3,125,451, 3–17–64, Cl. 99—148.

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Wink, James B., and C. L. Howe, to General Electric Co. Electron discharge device. 3,132,277, 5–5–64, Cl. 313—146.

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Winkler, Alfred, to Agfa Aktiengesellschaft. View finder with adjustable framing plates for cameras with interchangeable objectives. 3,118,014, 1–14–64, Cl. 88—1.5.

Winkler, Alfred, and D. Engelsmann, to Agfa Aktiengesellschaft. Camera controls. 3,125,010, 3–17–64, Cl. 95—10.

Winkler, Alfred, and W. Hofman, to Agfa Aktiengesellschaft. Film magazine for cameras. 3,143,050, 8–4–64, Cl. 95—31.

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Winkler, De Loss E., and G. W. Hearne, to Shell Oil Co. Olefin polymerization process. 3,147,238, 9–1–64, Cl. 260—93.7.

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Winkler, John T., to Radio Corp. of America. Converting systems. 3,153,228, 10–13–64, Cl. 340—347.

Winkler, Richard, and K. Dunnebier. Candy filling machine. 3,135,225, 6–2–64, Cl. 107—1.

Winkler, Richard, and K. Dunnebier, to Berkley Machine Co. Holder for supporting a stack of blanks in an envelope making machine. 3,140,090, 7–7–64, Cl. 271—61.

Winkler, Richard, and K. Dunnebier, to Berkley Machine Co. Apparatus for producing openings in sheet material for the manufacture of window envelopes. 3,159,069, 12–1–64, Cl. 83—302.

Winkler, Vladimir A. Head gasket for diesel engine. 3,156,224, 11–10–64, Cl. 123—41.83.

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Winn, John. Internal combustion engine. 3,139,074, 6–30–64, Cl. 123—51.

Winnen, Franklyn E., to Erickson Tool Co. Slow speed steering control for jet propelled boats. 3,159,134, 12–1–64, Cl. 115—12.

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Winsche, Warren E., and M. W. Davis, Jr., to United States of America, Atomic Energy Commission. Method of dehydrating and insolubilizing an aqueous nuclear reactor waste solution. 3,152,984, 10–13–64, Cl. 210—24.

Winsel, August, and E. Justi, to Varta Aktiengesellschaft and Siemens-Schuckert-Werke Aktiengesellschaft. Shaped metal parts having a superficial double skeleton catalyst structure. 3,150,011, 9–22–64, Cl. 136—120.

Winship, Ralph D., to Combustion Engineering, Inc. Live steam reheater. 3,130,780, 4–28–64, Cl. 165—163.

Winship, Richard S. Multiple-flux electrical reed relay. 3,134,867, 5–26–64, Cl. 200—87.

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Winslow, Charles A., to N. E. Fuller, and C. M. Farmer. Combined centrifuge and filtering device. 3,127,255, 3–31–64, Cl. 55—178.

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Winson, Jonathan. Electronically heat sealed hand covering. 3,147,493, 9–8–64, Cl. 2—158.

Winson, Jonathan. Fastener assembly. 3,147,526, 9–8–64, Cl. 24—117.

Winstead, Harvey L. Apparatus for the inspection and feeding of tobacco onto a redrier. 3,137,396, 6–16–64, Cl. 214—5.5.

Winstead, Thomas W., to Hedwin Corp. Two-piece closure fitting for plastic containers. 3,124,282, 3–10–64, Cl. 222—569.

Winston, Bertram. Locomotive aerators for fish tanks. 3,130,248, 4–21–64, Cl. 264—129.

Winston, Earl B., to Gardner-Denver Co. Control device for air motor. 3,154,100, 10–27–64, Cl. 137—596.14.

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Winter, Billy B. Device for hill dropping corn. 3,142,274, 7–28–64, Cl. 111—34.

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Winter, Otto, and H. Eichemeyer, to Olympia Werke AG. Cover arrangement for business machines. 3,118,246, 1–21–64, Cl. 45—68.1.

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Winter, Paul H., to Pass & Seymour, Inc. Spring-wire, dual-gripper for conductors. 3,125,392, 3–17–64, Cl. 339—95.

Winter, Paul H., to Pass & Seymour, Inc. Integral weather-proof plastic lid and hinge for electrical outlets. 3,127,048, 3–31–64, Cl. 220—35.

Winter, Paul H., to Pass & Seymour, Inc. Dead-back grounding outlet with reinforced cover. 3,148,926, 9–15–64, Cl. 339—14.

Winter, Paul H., to Pass & Seymour, Inc. Interchangeable grounding outlet with non-rigid top. 3,148,927, 9–15–64, Cl. 339—14.
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Winter, Rudolph R. Depth micrometer. 3,128,559, 4–14–64, Cl. 33—170.
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Winters, Berl C., to Sperry Rand Corp. Embedded heater cathode. 3,117,249, 1–7–64, Cl. 313—337.
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Winther, Jerrold B., to Eaton Mfg. Co. Eddy-current apparatus. 3,121,180, 2–11–64, Cl. 310—105.
Winther, John E. Activated display device. 3,120,068, 2–4–64, Cl. 40—106.21.
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Wise, James C., to Thompson Ramo Wooldridge Inc. Auxiliary power unit. 3,123,323, 3–3–64, Cl. 244—58.
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Wise, Ralph H. Windshield wiper blade. 3,131,414, 5–5–64, Cl. 15—250.42.
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Wismer, Marco, L. R. Lebras, J. R. Peffer, and J. F. Foote, to Pittsburgh Plate Glass Co. Polymers of organic polyisocyanates and polyether polyols derived from sucrose and methods for the preparation thereof. 3,153,002, 10–13–64, Cl. 260—2.5.

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Witt, Donald L., and R. Vaughn, to United States of America, Navy. Centrifugal pump with thrust balancing means. 3,123,010, 3–3–64, Cl. 103—103.

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Wolfe, Merritt W., to The Goodyear Tire & Rubber Co. Tire repair element. 3,133,587, 5–19–64, Cl. 152—367.
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Wood, Arthur B., to Admart, Inc. Beverage cup-holder for motor-vehicle doors. 3,128,983, 4–14–64, Cl. 248—208.
Wood, Arthur B., to Admart, Inc. Refreshment-tray-forming templet. 3,145,848, 8–25–64, Cl. 211—88.
Wood, Basil, to Merz & McLellan Services Ltd. Protective arrangements for prime movers coupled to electric generators. 3,156,848, 11–10–64, Cl. 317—19.
Wood, Benjamin G. Reciprocating wing helicopter adapted to be manually powered. 3,162,400, 12–22–64, Cl. 244—17.11.
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Wood, Charles E., deceased; by G. S. Wood, administratrix, ⅓ to H. W. Aker, ⅓ to J. W. Re., and ⅓ to G. S. Wood. Method and apparatus for dewatering solids such as sand. 3,124,528, 3–10–64, Cl. 210—19.
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Wood, Ernest C., 30% to R. G. LeVaux, and 30% to A. M. Brown. Pretied ligature splint. 3,130,727, 4–28–64, Cl. 128—326.
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Wood, Charles E. 3,124,528.
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Wood, Norman H., and L. B. Nesbitt, to General Electric Co. Cryogenic apparatus. 3,130,563, 4–28–64, Cl. 62—404.
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Woods, John P., and H. R. Barta, to The Atlantic Refining Co. Method of manufacturing a drive belt. 3,126,626, 3–31–64, Cl. 29—531.
Woods, John P., and J. A. Profera, to The Atlantic Refining Co. Variable intensity recording. 3,134,634, 5–26–64, Cl. 346—1.
Woods, John P., and E. B. Neitzel, to The Atlanic Refining Co. Method and apparatus for producing and recording a pulse frequency modulated signal. 3,143,658, 8–4–64, Cl. 307—88.5.
Woods, John P., E. B. Neitzel, and C. D. Dransfield, to The Atlantic Refining Co. Storing and reproducing coordinate functions on ferromagnetic material for use in correcting seismic records. 3,156,892, 11–10–64, Cl. 340—15.5.
Woods, John W. Automatic door closer. 3,160,408, 12–8–64, Cl. 268—3.
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Woolley, Samuel J., to General Electric Co. Refrigerator door including latch supporting means. 3,122,796, 3–3–64, Cl. 20—35.
Woolley, Samuel J., to General Electric Co. Two door cabinet including improved door hinge and stop mechanism. 3,125,390, 3–17–64, Cl. 312—329.
Woolman, Myron. Light transmission intelligence displaying and response recording machine. 3,162,959, 12–29–64, Cl. 35—9.
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Woolslayer, Homer J., and C. Jenkins, to Lee C. Moore Corp. Portable oil well drilling apparatus. 3,136,394, 6–9–64, Cl. 189—11.
Woolslayer, Homer J., C. C. Chism, and C. Jenkins, to L. C. Moore Corp. Oil well pipe racking platform. 3,145,802, 8–25–64. Cl. 182—114.
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Wootton, William C., to United-Carr Inc. Locking nut assembly. 3,141,488, 7–21–64, Cl. 151—21.
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Workman, Ted. Drawer guide. 3,119,644, 1–28–64, Cl. 312—346.
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Workman, Wesley R., to Minnesota Mining and Mfg. Co. Heat-sensitive copy-sheet. 3,129,109, 4–14–64, Cl. 117—36.8.
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Worman, Martin, to Ingersoll-Rand Co. Feed leg for rock drills. 3,137,313, 6–16–64, Cl. 137—596.
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Wrabetz, Karl, and W. Simmler, to Farbenfabriken Bayer Aktiengesellschaft. Process for the removal of aromatic impurities from liquid phenyl methyl polysiloxanes. 3,120,-549, 2–4–64, Cl. 260—448.2.
Wrabetz, Karl, and W. Simmler, to Farbenfabriken Bayer Aktiengesellschaft. Process for the removal of aromatic impurities from phenyl methyl polysiloxanes. 3,151,045, 9–29–64, Cl. 202—42.
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Wreford, Frederick S., to General Motors Corp. Ultrasonic power meter. 3,137,837, 6–16–64, Cl. 340—13.
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Wright, Almer C., ½ to W. B. Thomas. Bristle inserting apparatus. 3,123,405, 3–3–64, Cl. 300—8.
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Wright, Charles, Jr., to Lukens Steel Co. Method for manufacturing titanium clad steel. 3,121,949, 2–25–64, Cl. 29—471.5.
Wright, Charles M., to Hercules Powder Co. Electrolytic method for the preparation of gem-dinitrocompounds. 3,130,136, 4–21–64, Cl. 204—72.
Wright, Charles S., to The Pure Oil Co. Esters of boron phosphate as gasoline additives. 3,158,452, 11–24–64, Cl. 44—69.
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Wright, Paul C., and O. V. Chambers. Pipe line stopper. 3,155,369, 11–3–64, Cl. 251—187.
Wright, Paul E., to Radio Corp. of America. Electrostatic printing apparatus. 3,133,484, 5–19–64, Cl. 95—1.7.
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Wright, Sam B., and G. E. Sims, to Eastman Kodak Co. Processing of HMX. 3,133,054. 5–12–64, Cl. 260—239.
Wright, Thomas H., ½ to F. Folger, Jr. Apparatus to remove encircling objects from, and press them on, shafts. 3,146,522, 9–1–64, Cl. 29—256.
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Yamamoto, Katsuro, to Conch International Methane Ltd. Container with a flexible inner tank. 3,155,266, 11–3–64, Cl. 220—15.
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Yamamoto, Sachio, to California Research Corp. Hydrocracking process with an alumina-nickel sulfide catalyst activated with BF_3. 3,128,243, 4–7–64, Cl. 208—112.
Yamamoto, Takaaki, Y. Nakamura, and T. Nagashima. Process for the production of magnetic materials by the utilization of magnetic annealing effect. 3,125,472, 3–17–64, Cl. 148—108.
Yamamoto, Yuzo, and R. Goto, to Nippon Junsuiso Kabushiki Kaisha. Palladium alloy permeable wall for the separation and purification of hydrogen. 3,155,467, 11–3–64, Cl. 55—16.
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Yando, Stephen, to General Telephone and Electronics Laboratories, Inc. Electroluminescent display device. 3,132,276, 5–5–64, Cl. 313—108.
Yang, Kang, and P. L. Gant, to Continental Oil Co. Method of inhibiting undesirable radioactive labeling and radiation damage in systems containing material undergoing radioactive decay. 3,143,509, 8–4–64, Cl. 252—301.1.
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Yates, Hershel. Rodent exterminating device. 3,122,857, 3–3–64, Cl. 43—131.
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Yates, John, and R. S. Airs, to Shell Oil Co. Process for the manufacture of organoboron halides and esters. 3,119,-857, 1–28–64, Cl. 260—462.
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Yates, Paul R., 33⅓ to W. H. Lambdin, and 33⅓ to G. A. Shidell. Pneumatic clean out tool. 3,124,205, 3–10–64, Cl. 175—93.
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Yazigi, George M. Automatic headlight shut-off and warning system. 3,145,322, 8–18–64, Cl. 315—82.
Yeager, Ernest B., H. J. Dietrick, and R. R. Witherspoon, to United States of America, Navy. Continuous feed primary battery. 3,161,546, 12–15–64, Cl. 136—86.
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Yeckley, Russell N., and W. M. Kreh, to Westinghouse Electric Corp. Compressed-gas circuit interrupter with means for maintaining temperature of gas therein. 3,137,777, 6–16–64, Cl. 200—148.
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Yellott, John I. Film-type solar water heater. 3,146,774, 9–1–64, Cl. 126—271.
Yellott, John I., and B. C. Butler. Diagnostic instrument. 3,127,115, 3–31–64, Cl. 240—6.4.
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Yendall, Edward F., C. P. Andersen, R. Houston, and W. F. Mesinger, to Union Carbide Corp. Process and apparatus for separating condensables from compressed gas. 3,126,-265, 3–24–64, Cl. 62—14.
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Yerkes, John A., deceased, G. M. Yerkes, executrix, to G. M. Yerkes. Dispenser. 3,144,184, 8–11–64, Cl. 225—26.
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Yermish, Israel J., to Fenway Machine Co., Inc. Milling attachment. 3,127,814, 4–7–64, Cl. 90—17.
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Yeske, Louis A., to The Arrow-Hart & Hegeman Electric Co. Snap action toggle switch for high altitude use. 3,157,760, 11–17–64, Cl. 200—67.
Yetman, Edward D., and W. E. Baier, Jr., to Shell Oil Co. Position selector device for wells. 3,126,058, 3–24–64, Cl. 166—66.5.
Yetman, Edward D., and L. G. Otteman, to Shell Oil Co. High pressure wellhead assembly. 3,136,363, 6–9–64, Cl. 166—91.
Yetter, Dean B., to Crown Industrial Products Co. Method and apparatus for dispensing viscous substances. 3,156,385, 11–10–64, Cl. 222—262.
Yettito, Vincent. Bowling ball with nonremovable finger adaptor. 3,120,957, 2–11–64, Cl. 273—63.
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Yissar, Levi. Fluid piston engine and method of operating same. 3,139,837, 7–7–64, Cl. 103—255.
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Yocom, Perry N., to Radio Corp. of America. Rare earth activated alkaline earth halofluoride luminescent materials. 3,163,610, 12–29–64, Cl. 252—301.4.
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Yokoyama, Masami, and T. Kagoshima, to Nippon Electric Co., Ltd. Vacuum circuit breaker having buffering means in relatively stationary electrode structure. 3,129,308, 4–14–64, Cl. 200—144.
Yolin, Maurice, to Compagnie des Compteurs. Method and means for the manufacture of two color indicia bearing drums for meters and similar apparatus. 3,138,323, 6–23–64, Cl. 235—1.
Yomiyama, Akira, Y. Nanke, and N. Mizuma, to Asahi Kasei Kogyo Kabushiki Kaisha. Method and apparatus for continuously transferring ion exchange resin. 3,152,072, 10–6–64, Cl. 210—33.
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Yonkers, Edward H. Cable terminal and switching device. 3,123,684, 3–3–64, Cl. 200—48.
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Yonkers, William A., to Radio Frequency Laboratories, Inc. Standard magnet structure with predetermined air-gap. 3,140,430, 7–7–64, Cl. 317—158.
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York, Raymond P., and T. M. Carmichael, to Morpul Research Corp. Bobbin transferrer arm for looms. 3,120,860, 2–11–64, Cl. 139—244.
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York, Robert K., to Bell Telephone Laboratories, Inc. Low level transistor gating circuit. 3,139,536, 6–30–64, Cl. 307—88.5.
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York, William C., to Eastman Kodak Co. Vibrating belt powder cloud generator for xerography. 3,140,199, 7–7–64, Cl. 118—637.
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Young, Charles W., and J. I. Gates, to Shell Oil Co. Lubricity testing apparatus. 3,136,150, 6–9–64, Cl. 73—10.
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Young, James H., to E. I. du Pont de Nemours and Co. Nonsegregating granular detergent-bleach products and their preparation. 3,161,597, 12–15–64, Cl. 252—99.
Young, James J. Apparatus for shutting off flow of gaseous drilling fluid responsive to temperature in the bore hole. 3,151,688, 10–6–64, Cl. 175—25.
Young, James J., R. P. Johnson, and D. N. Huggins, to Owens-Corning Fiberglas Corp. Acoustical partitions. 3,159,235, 12–1–64, Cl. 181—33.
Young, John C. Mechanical contraceptives. 3,128,762, 4–14–64, Cl. 128—127.
Young, John C. Mechanical contraceptives. 3,130,721, 4–28–64, Cl. 128—127.
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Young, John E. G., to The New York Air Brake Co. Hydrostatic transmission. 3,117,420, 1–14–64, Cl. 60—52.
Young, John E. G., to The New York Air Brake Co. Hydrostatic transmission. 3,127,745, 4–7–64, Cl. 60—53.
Young, John M. C., and G. A. Lewis, to Joseph Lucas (Industries) Ltd. Warning and/or control device for use with aircraft fuel supply systems. 3,140,368, 7–7–64, Cl. 200—81.9.
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Young, Lewis D., to Douglas Young, Inc. Display box. 3,127,988, 4–7–64, Cl. 206—45.2.
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Zable, Walter J., R. V. Werner, and W. J. Thompson, to Cubic Corp. Electronic acquisition devices for narrow-beamwidth tracking systems. 3,148,369, 9–8–64, Cl. 343—117.
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Zanardo, Giuseppe. Repertory dialing system. 3,120,582, 2–4–64, Cl. 179—90.
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Zane, Victor H., and A. R. Kays, to Design and Mfg. Corp. Spray-tube dishwasher. 3,126,900, 3–31–64, Cl. 134—148.
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Zapp, George M., Jr., to E. I. du Pont de Nemours and Co. Semi conductor, containing ethylene-vinyl acetate, petroleum wax and carbon black. 3,155,631, 11–3–64, Cl. 260—28.5.
Zapp, Walter, to Minox G.m.b.H. Photographical camera. 3,153,375, 10–20–64, Cl. 95—31.
Zarchin, Alexander, 50% to The State of Israel, Ministry of Development. Apparatus for sweetening water. 3,121,626, 2–18–64, Cl. 62—58.
Zarcone, Jerome, and R. R. Kleiner. Drum beater head. 3,151,518, 10–6–64, Cl. 84—422.
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Zarouni, Alfred, to Bell Telephone Laboratories, Inc. Conference circuit for telephone switching systems. 3,133,-994, 5–19–64, Cl. 179—18.
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Zaugg, Harold E., and R. W. De Net, to Abbott Laboratories. 2-bromomethyl-4-phenyl-4-chromancarboxylic acids and their methyl esters. 3,118,910, 1–21–64, Cl. 260—345.2.
Zaugg, Harold E., R. W. De Net, and R. J. Michaels, Jr., to Abbott Laboratories. N-alkyl and N-aralkyl benzoxacycloalkaneamides. 3,122,551, 2–25–64, Cl. 260—268.
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Zaugg, Samuel, to Brevets Aero-Mecaniques S.A. Electrical connecting device having opposed annular surfaces frictionally engaging wire. 3,122,605, 2–25–64, Cl. 174—94.
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Le Baron, Charles E. 3,155,278.
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Zito, George V., to The Bendix Corp. Ion air density sensor including dark current correction means. 3,126,512, 3–24–64, Cl. 324—33.
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Zook, Erle T. Door lock. 3,161,428, 12–15–64, Cl. 292—292.
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Zubryckyj, Nicolas, to Sherritt Gordon Mines Ltd. Electrolytic precipitation of metal sulphides from leach slurries. 3,162,587, 12–22–64, Cl. 204—92.
Zuccaro, Salvadore J., to Ampex Corp. Logical circuits. 3,145,307, 8–18–64, Cl. 307—88.
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Aymar, Julian R. Combined toothbrush and toothbrush handle. 197,763, 3–24–64, Cl. D9—2.
Ayres, Richard E. Amusement roundabout table. 198,036, 4–21–64, Cl. D34—5.
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Baierl, Martha L. H. Plate or similar article. 198,223, 5–19–64, Cl. D44—15.
Baker, Edgar G., to Gentex Corp. Buoyant belt. 197,820, 3–24–64, Cl. D71—1.
Baker, Martin E., to Southern Instruments Ltd. Automatic telephone answering and recording unit. 198,378, 6–9–64, Cl. D26—14.
Baker, William O., and E. A. Rodriguez, to Shamrock Pool Equipment Co. Skim filter unit or similar article. 198,117, 4–28–64, Cl. D91—1.
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Barecki, Chester J. Reclining chair for vehicles. 198,783, 8–4–64, Cl. D15—8.
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Barnard, John P., to Terry Plastics. Boat. 198,882, 8–11–64, Cl. D71—1.
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Barr, Roger D. Syringe. 199,110, 9–8–64, Cl. D83—12.
Barr, Roger D. Syringe. 199,167, 9–15–64, Cl. D83—12.
Barrett, Leon. Combined table, television stand, lamp and antenna. 199,126, 9–15–64, Cl. D33—14.
Bartley, Keith D., and H. Dreyfuss, to Bell Telephone Laboratories, Inc. Panel type telephone. 197,279, 1–7–64, Cl. D26—14.
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Beale, Stanley E., to Applied Development Corp. Extruded member for equipment drawers or the like. 199,354, 10–13–64, Cl. D13—6.
Beall, Glenn L., to Abbott Laboratories. Valve for medical apparatus and the like. 199,488, 11–3–64, Cl. D16—2.
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Beckman, Frank, and G. Florian. Combined viewer and editor for motion picture film. 197,745, 3–17–64, Cl. D61—1.
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Bedard, Alfred J., Jr. Playing card. 199,909, 12–29–64, Cl. D34—13.
Beddor, William N. Price card holder for price tag moldings. 199,020, 9–1–64, Cl. D1—3.
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Beesley, Robert L., and R. H. Matthias, to The Dow Chemical Co. Case for beverage bottles or the like. 198,868, 8–11–64, Cl. D58—5.
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Beigh, Lauris L. Drive in restaurant. 197,596, 3–3–64, Cl. D13—1.
Beinert, John D., to International Patent Research Corp. Lawn sprinkler. 199,225, 9–22–64, Cl. D91—1.
Beinert, John D., to International Patent Research Corp. Lawn sprinkler. 199,226, 9–22–64, Cl. D91—1.
Beinert, John D., to International Patent Research Corp. Lawn sprinkler. 199,227, 9–22–64, Cl. D91—1.
Beinert, John D., to International Patent Research Corp. Lawn sprinkler. 199,228, 9–22–64, Cl. D91—1.
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Bellinger, John A., and T. J. Lowe. Toll collection machine or similar article. 198,336, 6–2–64, Cl. D52—4.

Beltram, Victor R., to The Falls Steel Tube & Mfg. Co. Wire coil carrier. 197,393, 1–21–64, Cl. D80—10.

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Berman, Matthew M. Ash tray. 199,012, 8–25–64, Cl. D85—2.

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Birrell, Stewart H., and D. J. Morgan, to Owens-Illinois Glass Co. Jug. 199,641, 11–24–64, Cl. D58—5.

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Bloom, Roy M. Toy flame thrower gun. 198,270, 5–26–64, Cl. D34—15.

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Bodenbach, Lowell W. Combined memo board and adjustable utility tray. 199,569, 11–17–64, Cl. D33—3.

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Boldt, Melvin H., to Marco Corp. Portable ironing press or the like. 199,079, 9–8–64, Cl. D49—1.

Boldt, Melvin H., to Schick Electric Inc. Electric shaver. 199,527, 11–10–64, Cl. D22—3.

Boldt, Melvin H., to National Presto Industries, Inc. Electric toothbrush unit or the like. 199,727, 12–8–64, Cl. D4—3.

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Bonham, James E., and S. R. Blackwell, to Quality Molding Co. Flower pot, saucer, and flower-arranging disc combination. 198,040, 4–21–64, Cl. D35—3.
Bonner, Carol M. Figure of a head. 198,091, 4–28–64, Cl. D34—4.
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Brandler, Morris D., and J. F. G. Bowlby. Motor driven paper dispenser. 198,758, 7–28–64, Cl. D52—2.
Branham, Debbruedell M., 10% to M. Richardson. Self service car wash center. 198,523, 6–30–64, Cl. D13—1.
Bratton, Charles A. Head for a furrow cutter. 197,293, 1–7–64, Cl. D39—1.
Braun, Samuel, to B.C.N. Design Products Inc. Display container for pen and pencil set. 198,946, 8–18–64, Cl. D58—12.
Braun, Samuel, to B.C.N. Design Products Inc. Box. 198,947, 8–18–64, Cl. D58—12.
Braun, Samuel, to B.C.N. Design Products Inc. Box. 198,948, 8–18–64, Cl. D58—12.
Braun, Samuel., to Sperry Rand Corp. Compartmented box. 199,280, 9–29–64, Cl. D58—11.
Bravo, Joel W., to General Anilin & Film Corp. Casing for photo printing machine. 197,445, 2–4–64, Cl. D61—1.
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Rhoades, Nolan K. 197,533.
Breck, John H., Inc.: *See*—
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Dailey, Donald E. 199,698.
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Breda, Albert. Automobile hood speedometer. 198,277, 5–26–64, Cl. D52—6.
Bredon, Pat M. Tepee. 198,779, 8–4–64, Cl. D13—1.
Breed, Charles P., and E. H. McCauley, to Sperry Rand Corp. Document sorter cabinet. 198,686, 7–21–64, Cl. D26—5.
Brennan, Frederick S., to Simplicity Mfg. Co. Snow blower. 199,033, 9–1–64, Cl. D35—2.
Brenner, Roy L., to Kinkead Industries Inc. Curtain rod or the like. 197,771, 3–24–64, Cl. D21—1.
Brenni, Raimondo, to Nepro Watch Paolo Spadini. Clock radio or similar article. 198,283, 5–26–64, Cl. D56—4.
Brent, George T., to International Resistance Co. Electrical potentiometer. 197,772, 3–24–64, Cl. D26—1.
Brett, John J., and A. Hohmann, to Consolidated Dynamics Corp. Time punch or similar article. 198,045, 4–21–64, Cl. D42—7.
Brewer, Constance B.: *See*—
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Rossi, Avis R. 198,977.
Rossi, Avis R. 198,978.
Brewer, Robert. Lamp base or the like. 198,228, 5–19–64, Cl. D48—20.
Brewer, Willie F., to Dealer Associates, Inc. Rotary tiller. 199,577, 11–17–64, Cl. D35—2.
Briars, Weber, Inc.: *See*—
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Bricklin, Malcolm N., to Handyman, Inc. Building. 198,674, 7–21–64, Cl. D13—1.
Brickman, Herman J. Power driven shoe buffer. 199,301, 10–6–64, Cl. D9—2.
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Brigham, Owsley H. Underwater diving light. 198,881, 8–4–64, Cl. D48—24.
Brighton, John C., to Arvin Industries, Inc. Combined cover and holder for a refuse bag. 198,999, 8–25–64, Cl. D58—17.
Brighton, John C., to Arvin Industries, Inc. Refuse holder. 199,053, 9–8–64, Cl. D14—3.
Brill, Edward F., to Allis-Chalmers Mfg. Co. Vehicle. 198,067, 4–21–64, Cl. D71—1.
Brill, Edward F., to Allis-Chalmers Mfg. Co. Top for a vehicle. 198,622, 7–14–64, Cl. D14—27.
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Stolarz, Edward M. 198,910.
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Britton, Harrison J., to Hydromatics, Inc. Ball valve. 198,252, 5–19–64, Cl. D91—3.
Brocken, Karl. Bottle carrying case. 198,591, 7–7–64, Cl. D58—5.
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Brody, Philip M., and F. H. Rahr, to Wood Conversion Co. Ceiling tile or similar article. 199,184, 9–22–64, Cl. D18—2.
Brody, Philip M., and F. H. Rahr, to Wood Conversion Co. Ceiling tile or similar article. 199,185, 9–22–64, Cl. D18—2.
Brody, Philip M., and F. H. Rahr, to Wood Conversion Co. Ceiling tile or similar article. 199,186, 9–22–64, Cl. D18—2.
Bromley, Kenneth W., to Harold Leonard & Co., Inc. Rack for holding sugar packets. 197,436, 2–4–64, Cl. D44—24.
Brosk, Doris A. Garment hanger. 197,448, 2–4–64, Cl. D80—8.
Bross, Helmut K., 50% to F. T. Johmann. Handle for launching an aerial toy or the like. 198,697, 7–21–64, Cl. D34—15.
Bross, Helmut K., 50% to F. T. Johmann. Helicopter toy. 199,681, 12–1–64, Cl. D34—15.
Brower, David F., and G. B. Hayward, to General Dynamics Corp. Machine for forming material by a pulsed, high intensity magnetic field. 197,276, 1–7–64, Cl. D26—1.
Brown, George D. Combined lamp base and book rack. 198,638, 7–14–64, Cl. D48—20.
Brown, James A. Animated toy. 199,741, 12–8–64, Cl. D34—15.
Brown, James W. Automobile. 199,393, 10–20–64, Cl. D14—3.
Brown, Thomas E., to Rexall Drug and Chemical Co. Butter dish or similar article. 197,980, 4–14–64, Cl. D44—5.
Brown, Warner K., to Clark Equipment Co. Lift truck. 198,205, 5–19–64, Cl. D14—3.
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Smith, Melbourne F., Jr. 198,570.
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Smith, Melbourne F., Jr. 199,317.

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Bruce, Robert A., F. J. Chiappetta, and G. W. Richardson, to Corning Glass Works. Drip coffee maker or the like. 198,807, 8–4–64, Cl. D44—26.

Bruckner, James V., to The Colson Corp. Caster. 198,901, 8–18–64, Cl. D10—6.

Bruns, Herman R., K. H. Melick, and A. F. Muscari, to American Telephone and Telegraph Co. Telephone booth. 197,963, 4–14–64, Cl. D13—1.

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Bryant, Goble W., to Interstate Bag Co., Inc. Shopping bag. 199,544, 11–10–64, Cl. D58—2.

Buchanan, William V., and R. D. Muir, to Command Mfg. Co., Inc. Package carrier handle. 198,196, 5–12–64, Cl. D87—2.

Buckingham, Donald A. Photocopying apparatus. 198,190, 5–12–64, Cl. D61—1.

Bucknell, Ernest H., and I. A. Ward. Fountain brush. 197,458, 2–11–64, Cl. D9—2.

Buda, Salvatore. Vacuum cleaner. 198,492, 6–23–64, Cl. D9—2.

Budd Co., The: *See*—
Burnside, Stewart A., de Pedroso, Lawinski, Wessells, and Kolt. 197,402.

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Slosberg, Earl M. 198,451.

Burlin, James N., and S. E. Seretny, to Bell Telephone Laboratories, Inc. Repertory dialer telephone housing. 199,490, 11–3–64, Cl. D26—14.

Bull, Harry W.: *See*—
Kirkwood, Lewis E., Bull, Cornell, and Buttery. 198,873.

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Bunn, William E. L., and J. V. Vevirit, to W. A. Sheaffer Pen Co. Ash tray or similar article. 198,298, 5–26–64, Cl. D85—2.

Bunn, William E. L., and J. V. Vevirit, to W. A. Sheaffer Pen Co. Desk tray or similar article. 199,217, 9–22–64, Cl. D74—9.

Burch, Elton W., to Progress Holding Corp. Hose supporter. 199,182, 9–22–64, Cl. D17—8.

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Burke, Frederick A., to Sunbeam Corp. Clock. 199,912, 12–29–64, Cl. D42—7.

Burke, Jackson, to Eltra Corp. Korean type font. 198,414, 6–9–64, Cl. D64—12.

Burleson, Aaron, to Burlington Industries, Inc. Woman's stocking. 199,140, 9–15–64, Cl. D47—7.

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Burnbaum, Jack. Christmas tree top ornament or similar article. 198,751, 7–28–64, Cl. D29—1.2.

Burnelli, Vincent J. Cargo air transport. 198,610, 7–7–64, Cl. D71—1.

Burnelli, Vincent J. Heavy freight plane. 199,510, 11–3–64, Cl. D71—1.

Burnett, James G., to Pacer Research & Development Corp. Photocopier. 198,241, 5–19–64, Cl. D61—1.

Burnett, James G., to Pacer Research & Development Corp. Light producing apparatus for use with photosensitive materials. 198,600, 7–7–64, Cl. D61—1.

Burns, Fredrick B., and G. D'Ercoli, to E Z Paintr Corp. Paint trimming applicator or the like. 198,563, 7–7–64, Cl. D9—2.

Burns, Fredrick B., and G. D'Ercoli, to E Z Paintr Corp. Paint trimming applicator or the like. 198,564, 7–7–64, Cl. D9—2.

Burns, James O., to Ormston Burns Ltd. Guitar body. 197,627, 3–3–64, Cl. D56—1.

Burns, James O., to Ormston Burns, Ltd. Neck for a stringed musical instrument or similar article. 198,400, 6–9–64, Cl. D56—1.

Burns, James O., to Ormston Burns Ltd. Control arm for a tremolo unit for a guitar. 198,714, 7–21–64, Cl. D56—1.

Burns, James O., to Ormston Burns Ltd. Bridge piece for a guitar or the like. 199,810, 12–15–64, Cl. D56—1.

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Burns, James O. 198,400.
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Busch, Robert F., to United States Rubber Co. Tire. 199,658, 11–24–64, Cl. D90—20.

Busch, Robert F., J. W. Taylor, and W. L. Shesterkin, to United States Rubber Co. Tire. 199,017, 8–25–64, Cl. D90—20.

Busch, Robert F., and W. L. Shesterkin, to United States Rubber Co. Tire. 199,722, 12–1–64, Cl. D90—20.

Buschbom, Floyd E. Combined hopper and bunk feeder. 197,626, 3–3–64, Cl. D55—1.

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Bushyhead, James B., to Moog Industries, Inc. Stool. 198,678, 7–21–64, Cl. D15—8.

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Butler, Frank C. Golf putter. 198,383, 6–9–64, Cl. D34—5.

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Byford, Curtis L. Combined dispenser can and shaving brush. 198,308, 6–2–64, Cl. D9—2.

Byrnes, Joseph, to Tiffany Fabrics, Inc. Textile fabric. 199,173, 9–15–64, Cl. D92—1.

Bywater, James E., to Ford Motor Co. Hay baler. 199,798, 12–15–64, Cl. D40—1.

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Cadwallader, Alvin A., to Teleflex Inc. Flexible combined control wire for remote force transmission and plastic covered housing therefor or similar article. 198,902, 8–18–64, Cl. D14—3.

Cahan, Alvin M. Fireplace tongs. 198,823, 8–4–64, Cl. D81—24.

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MacVicar, Frederick H., Cox, Wendt, and Katogir. 198,352.

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Cameron, William M., to Kaiser Industries Corp. Storage container for bulk materials. 198,143, 5–5–64, Cl. D58—3.

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Carreiro, Julian A., ⅓ to T. E. Powers and ⅓ to L. H. Fortson. Lunch box. 198,489, 6–16–64, Cl. D87—5.
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Carroll, William A., to The Lorac Co., Inc. Earring finding. 198,225, 5–19–64, Cl. D45—9.
Carson, Frank J., and H. A. Lefiet, Jr., to Libbey-Owens-Ford Glass Co. Rear window for automobiles or the like. 198,970, 8–25–64. Cl. D14—6.
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Castrinos, Louis N. Food serving tray or similar article. 199,629, 11–24–64, Cl. D44—10.
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Chadbourne, Gilbert R., to Keyes Fibre Co. Packaging tray. 198,998, 8–25–64. Cl. D58—13.
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De Pietro, Anthony J., to Medical Electronics and Research Corp. Dental articulator. 198,024, 4–21–64, Cl. D24—1.
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Deschamps, Robert L., and R. A. Massaccesi, to Shure Brothers, Inc. Carrying case. 199,950, 12–29–64, Cl. D87—5.
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De Shazor, James C., Jr. Can carrier clip. 197,357, 1–14–64, Cl. D58—26.
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De Witt, William L. Building. 199,486, 11–3–64, Cl. D13—1.
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Dickson, Herbert F., Jr. Electroluminescent plate and font of characters formed thereon. 198,607, 7–7–64, Cl. D64—12.
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Ekern, Daniel S. Ventilator. 197,872, 3–31–64, Cl. D81—25.

Ekey, William J., to The F. E. Myers & Bros. Co. Combination pump and motor housing. 199,003, 8–25–64, Cl. D65—1.

Eklind, Howard A. Support clip for clothes hangers. 199,007, 8–25–64, Cl. D80—8.

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Ellefson, John R., to E. I. du Pont de Nemours and Co. Plastic sheet material. 198,301, 5–26–64, Cl. D87—3.

Elliott, Herbert A. Barbecue spit basket. 199,712, 12–1–64, Cl. D81—10.

Elliott, Oliver, to Life Guard, Inc. Transparent faced medicine cabinet. 197,502, 2–18–64, Cl. D4—3.

Ellis, Florence C. Candlestick. 197,984, 4–14–64, Cl. D48—2.

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English, Gene L. Dispensing holder for collapsible tubes. 199,780, 12–15–64, Cl. D4—3.
Engman, Milton C. Hinged pipe clamp. 199,695, 12–1–64, Cl. D54—13.
Epstein, Robert. Combined gripping and lifting tong. 198,338, 6–2–64, Cl. D54—13.
Erath, Louis W., to Test Equipment Corp. Meter for testing electronic components, including transistors, diodes and other solid state electronic devices. 197,414, 1–28–64, Cl. D52—6.
Erdman, Harold E. Beet harvester or similar article. 198,861, 8–11–64, Cl. D40—1.
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Erickson, Lloyd A., to Illinois Tool Works Inc. Article holder for a perforated support board. 198,972, 8–25–64, Cl. D17—12.
Ericson, Richard E. Surgical scissors. 198,963, 8–18–64, Cl. D83—12.
Eriksson, George J., to Superior Concrete Accessories, Inc. Anchor for holding under tension the embedded cables of a prestressed concrete girder. 199,085, 9–8–64, Cl. D54—9.
Ernest, Robert O., to Sunbeam Corp. Vacuum cleaner casing. 199,389, 10–20–64, Cl. D9—2.
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Ernest, Robert O., and R. E. Cornwell, to Sunbeam Corp. Combined lawn edger and trimmer. 198,980, 8–25–64, Cl. D40—1.
Ernest, Robert O., and D. E. Leman, to Sunbeam Corp. Electric iron. 199,268, 9–29–64, Cl. D49—6.
Escalante, Conrad J. Illuminable display sign or similar article. 198,663, 7–21–64, Cl. D1—12.
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Everts, Richard, to The General Electric Co. Electric fan heater. 199,045, 9–1–64, Cl. D81—10.
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Fabes, Sam, to Gateway Luggage Mfg. Co., Inc. Bowling ball case or similar article. 197,939, 4–7–64, Cl. D87—5.
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Fee, Graham, and W. E. Portz, to True Temper Corp. Lawn sprinkler. 198,357, 6–2–64, Cl. D91—1.
Fees, Richard A., to Quaker Lace Co. Tablecloth. 199,660, 11–24–64, Cl. D92—26.
Fehling, Hans R., and A. D. Street, to I.R.C. Ltd. Writing instrument. 198,348, 6–2–64, Cl. D74—17.
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Fehn, Charles H., to Nethercult Industrial Corp. Motorcycle body unit. 199,609, 11–17–64, Cl. D90—8.
Feigenbaum, Robert E., to Furco Mfg. Co. Tubular stock for use in constructing children's play equipment. 199,084, 9–8–64, Cl. D54—4.
Feist, Julius. Fisherman's knife. 197,647, 3–10–64, Cl. D22—3.
Felch-Anderson Co.: *See*—
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Felch, Carmen S., to Felch-Anderson Co. Shoe buckle. 199,892, 12–29–64, Cl. D7—6.
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Ferar, Montgomery, and H. G. Langhjelm, to Geo. D. Roper Corp. Cooking range. 199,711, 12–1–64, Cl. D81—4.
Ferguson, Eldon C. Camper for station wagons. 198,203, 5–19–64, Cl. D14—3.
Ferree, Patrick J., to Bemis Bro. Bag Co. Bottle. 198,105, 4–28–64, Cl. D58—6.
Ferree, Patrick J., to Bemis Bro. Bag Co. Bottle. 198,762, 7–28–64, Cl. D58—8.
Ferriot, Joseph V. Toy can opener. 198,748, 7–28–64, Cl. D22—2.
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Ferro, Arthur C., to Contour Chair-Lounge Co., Inc. Chair. 197,645, 3–10–64, Cl. D15—11.
Fetty, Harold D., to The Goodyear Tire & Rubber Co. Tire. 199,425, 10–20–64, Cl. D90—20.
Feuerbacher, Kenneth J. Combined bottle and brush. 197,309, 1–7–64, Cl. D58—9.
Few, William, and G. W. Newton, to Newton Instrument Co. Mobile room sterilizer. 197,873, 3–31–64, Cl. D83—1.
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Field, Thomas R., to Jenn Air Products Co., Inc. Front panel for a wall mounted oven. 199,713, 12–1–64, Cl. D81—25.

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Filipowski, George. Serving tray. 197,295, 1–7–64, Cl. D44—10.
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Fineman, Bernard and I. 199,325.
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Finkelstein, Edith, and M. J. Meltz. Luggage handle. 197,831, 3–24–64, Cl. D87—2.
Finkelstein, Joseph, to Philadelphia Handle Co. Luggage handle. 198,250, 5–19–64, Cl. D87—2.
Finley, Robert C. Tool for lifting reams of paper. 199,333, 10–6–64, Cl. D54—13.
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Fogel, Joel D., and D. J. Mangini. Refrigerator. 198,000, 4–14–64, Cl. D67—3.
Foley, Laurance J., and J. J. Corrigan, to Astro Sales, Inc. Tie holder. 198,653, 7–14–64, Cl. D80—8.
Folkman, Bern D., to Pharmaseal Laboratories. Tray for medical equipment. 198,151, 5–5–64, Cl. D83—1.
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Frankel, Samuel. Radio. 198,051, 4–21–64, Cl. D56—4.
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Friedman, Herbert, to General Slicing Machine Co., Inc. Base for a vise, a food grinder, and the like. 197,534, 2–18–64, Cl. D54—13.
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Friedman, Morris, and A. V. Mackey, to Minerware, Inc., and H.M.S. Associates Co. Egg cup. 197,791, 3–24–64, Cl. D44—9.
Friedman, Morris, and A. V. Mackey, to Minerware Inc., and H.M.S. Associates Co. Basting syringe. 197,795, 3–24–64, Cl. D44—29.
Friedman, Morris, and A. V. Mackey, to Minerware, Inc., and H.M.S. Associates Co., jointly. Condiment shaker. 197,905, 4–7–64, Cl. D44—22.
Friedman, Morris, and A. V. Mackey, to Minerware, Inc., and H.M.S. Associates Co. Laundry sprinkler. 198,469, 6–16–64, Cl. D49—1.
Friedman, Morris, and A. V. Mackey, to Minerware, Inc., and H.M.S. Associates, Co. Combined room air freshener and deodorizer. 198,681, 7–21–64, Cl. D16—2.
Friedman, Morris, and A. V. Mackey, to Minerware, Inc., and H.M.S. Associates Co. Combined refrigerator air freshener and deodorizer. 198,786, 8–4–64, Cl. D16—2.
Friedman, Morris, and A. V. Mackey, to Minerware, Inc., and H.M.S. Associates Co. Tray for condiment containers. 198,983, 8–25–64, Cl. D44—24.

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Fritsche, Richard K., J. K. Heidrich, and J. R. Lynch, said Fritsche and said Heidrich assignors to The Miami Margarine Co. Food package. 199,200, 9–22–64, Cl. D58—2.
Fritts, Russell A., to The Singer Co. Base member for a sewing machine carrying case or similar article. 197,362, 1–14–64, Cl. D70—2.
Fritts, Russell A., to The Singer Co. Sewing machine. 197,585, 2–25–64, Cl. D70—1.
Fröbel, Arthur, and F. Kopp, to Olympia Werke AG. Bookkeeping machine or the like. 198,651, 7–14–64, Cl. D64—11.
Froehlich, Frederick B., to International Business Machines Corp. Tape reel latch. 199,649, 11–24–64, Cl. D61—1.
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Frost, George H., to Westinghouse Electric Corp. Casing for storage of an electric toothbrush power unit and brushes therefor. 197,636, 3–10–64, Cl. D4—3.
Frost, George H., to Westinghouse Electric Corp. Toothbrush power handle or a similar article. 198,899, 8–18–64, Cl. D9—2.
Fuerst, Brooks D., to Owens-Illinois Glass Co. Jar. 197,389, 1–21–64, Cl. D58—25.
Fuerst, Brooks D., to Owens-Illinois Glass Co. Bottle. 198,511, 6–23–64, Cl. D58—8.
Fujimoto, Calvin, M. H. Best, and C. A. Samhammer, to The National Cash Register Co. Information storage unit. 198,026, 4–21–64, Cl. D26—5.
Fuller, Alfred L.: *See*—
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Fullerton, Tommy T., James S. and John S. Frederick, to Colony House, Inc. Knife or similar article. 199,313, 10–6–64, Cl. D22—3.
Fulop, Charles. Expansion bolt shield. 198,102, 4–28–64, Cl. D54—9.
Fulton, James F., to Reynolds Metals Co. Dispenser for coiled sheet material or the like. 197,623, 3–3–64, Cl. D52—2.
Fulton, James F. Shower stall. 199,517, 11–10–64, Cl. D4—4.
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Feigenbaum, Robert E. 199,084.
Furlani, Walter, and E. J. Sabella, to International Business Machines Corp. Data processing system console. 198,879, 8–11–64, Cl. D64—11.
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Gale, Charles H. Railway rapid transit car body. 197,930, 4–7–64, Cl. D66—1.
Gale, John A. Rocking chair. 198,312, 6–2–64, Cl. D15—6.
Gale, John A. Table. 198,324, 6–2–64, Cl. D33—14.
Gale, William H. Casing for a key duplicating machine.
Gale, John A. Boat. 198,554, 6–30–64, Cl. D71—1.
198,866, 8–11–64, Cl. D54—14.
Galion, Hercules, Products, Inc.: *See*—
Herpich, William A., and Chaney. 198,839.
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Gamble, Richard D. Holder for phonograph record jackets. 197,720, 3–17–64, Cl. D33—3.
Gammill, Murry J.: *See*—
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Winger, Joseph A., Cothern, and Gammill. 197,440.
Gandelman, Morris D., to Jacques Kreisler Mfg. Corp. Buckle. 198,787. 8–4–64, Cl. D17—1.
Gandelman, Morris D., to Jaques Kreisler Mfg. Corp. Strap buckle. 199,903, 12–29–64, Cl. D17—1.
Gantz, Carroll M., to The Hoover Co. Suction cleaner. 198,435, 6–16–64, Cl. D9—2.
Gantz, Carroll M., to The Hoover Co. Suction cleaner. 198,436, 6–16–64, Cl. D9—2.
Garber, John M. Bookcase. 199,906, 12–29–64, Cl. D33—2.
Garcia, Richard R. Base for a candle lamp. 197,347, 1–14–64, Cl. D48—2.
Gardner, Charles E., to Potter Instrument Co., Inc. Reel hub. 199,339, 10–6–64, Cl. D61—1.
Gardner, James A., and L. F. Reynolds. Rapid transit car. 198,551, 6–30–64, Cl. D66—1.
Gardner, Stewart F., to Stewart Coach Industries, Inc. Trailer. 198,159, 5–12–64, Cl. D14—3.
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Garrett, Ross E., to Kesk, Inc. Building. 197,641, 3–10–64, Cl. D13—1.
Garrett, Ross E., to Kesk, Inc. Building. 197,642, 3–10–64, Cl. D13—1.
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Gaskins, Lucian W. Spanner wrench head or similar article. 199,091, 9–8–64, Cl. D54—16.
Gaskins, Lucian W. Spanner wrench or similar article. 199,092, 9–8–64, Cl. D54—16.
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Gattone, Daniel H. Combination aerosol dispenser and brush. 197,399, 1–28–64, Cl. D9—2.
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Gazzam, Joseph M., III. Weather indicating instrument. 199,808, 12–15–64, Cl. D52—7.
Gehrie, Charles S., to Presto Lock Co. Luggage lock or similar article. 197,809, 3–24–64, Cl. D50—7.
Gehrie, Charles S., to Presto Lock Co. Luggage lock or similar article. 199,080, 9–8–64, Cl. D50—7.
Gehrie, Charles S., to Presto Lock Co. Draw bolt for luggage or the like. 199,584, 11–17–64, Cl. D50—7.
Geipen, Hubert M., to Geipen Associates, Inc. Greeting card vending machine. 197,350, 1–14–64, Cl. D52—3.
Gelberg, William P., and R. J. Botti, to Porta-Zibit Mfg. Co. and Undrea Corp. Knock down exhibitor. 198,485, 6–16–64, Cl. D80—9.
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Pettengill, Myron F. 198,812.
Phaneuf, Edgar A. 199,236.
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Pohlmann, Charles F. 198,116.
Pohlmann, Charles F. 198,715.
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Gershon, Saul. Display counter, or the like. 199,605, 11–17–64, Cl. D80—11.
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Gifford, Bruce M., to Mono-Coat Corp., and Automotive Rubber Co., Inc. Butterfly valve body. 198,886, 8–11–64, Cl. D78—1.
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Rohe, Andreas K. 197,519.
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Golden, Harry. Bicycle pedal. 197,754, 3–17–64, Cl. D90—14.
Golden, Harry, to Ideas for Auto & Bike Specialties, Inc. Bicycle handlebar atachment. 199,171, 9–15–64, Cl. D90—11.
Golden, Harry, to Ideas for Auto & Bike Specialties, Inc. Pedal for velocipedes. 199,951, 12–29–64, Cl. D90—14.
Goldfarb, Stanley. Hobby horse. 197,978, 4–14–64, Cl. D34—15.
Goldsmith, William N., to Simoniz Co. Dispensing cap for pressurized containers. 199,702, 12–1–64, Cl. D58—26.
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Gould, Harry H., to Shuko Shoe Corp. Shoe. 197,761, 3–24–64, Cl. D7—7.
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Graham, James D., to Hamilton Mfg. Co. Combination demonstration and display unit. 199,218, 9–22–64, Cl. D80—11.
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Grant, Munro M. Cleat for a shoe. 198,123, 5–5–64, Cl. D7—5.
Grasso, Philip. Storage rack for suspending container lids. 198,305, 6–2–64, Cl. D4—2.
Grasso, Sam L., to Inland Mfg. Co. Radiation test and repair bench. 198,588, 7–7–64, Cl. D54—14.
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Grayson, John F. Clamp for taking up slack in ropes or the like. 199,636, 11–24–64, Cl. D54—1.
Grazen, Alfred E., and D. G. Lord, to Landers, Frary & Clark. Coffee maker. 197,619, 3–3–64, Cl. D44—26.
Greczin, John, to Singer-Fidelity, Inc. Flexible hose. 197,378, 1–21–64, Cl. D43—1.
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Greenberg, Harry, and C. C. Y. Liu, to Channel Master Corp. Antenna dipole element or similar article. 197,894, 4–7–64, Cl. D26—14.
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Gregoire, Resta S., to Gregoire Engineering and Development Co. Cabana. 198,671, 7–21–64, Cl. D13—1.
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Marien, Kenneth J., and Gribble. 197,429.
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Grimm, Dudley H., to Puritan Compressed Gas Corp. Oxygen administering mask unit. 197,450, 2–4–64, Cl. D83—1.
Grimm, Dudley H., to Puritan Compressed Gas Corp. Oxygen administering mask unit. 197,451, 2–4–64, Cl. D83—1.
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Terry, Leonard D., Jr. 198,065.
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Groth, Daniel F. Aquarium cover. 199,386, 10–13–64, Cl. D91—2.
Grove, John J., to Facade, Inc. Dual horizontal fluted push bar. 199,732, 12–8–64, Cl. D10—8.
Grove, Robert, and W. D. Steere, to Chrysler Corp. Automobile wheel cover. 198,208, 5–19–64, Cl. D14—30.
Grove, Robert, and A. J. Roberts, to Chrysler Corp. Automobile wheel cover. 198,209, 5–19–64, Cl. D14—30.
Groves, James H., to American Can Co. Package cover. 198,723, 7–21–64, Cl. D58—26.
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Grube, Clifford E., to Associated Mills, Inc. Combined vaporizer and humidifier. 198,558, 6–30–64, Cl. D83—1.
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Akely, William S. 198,183.
Gubbins, Charles H., to Wolf Electric Tools Ltd. Portable power tool or similar article. 197,667, 3–10–64, Cl. D54—14.
Gudmundson, Mathias W. Tongs for mail box pick-up and delivery, and the like. 199,458, 10–27–64, Cl. D54—13.
Guild, William W. Gang-type closure for storage batteries. 197,335, 1–14–64, Cl. D26—6.
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Miller, William M., Jr., and Harris. 198,290.
Gulotta, Gerald D., to Owens-Illinois Glass Co. Casserole or similar article. 197,574, 2–25–64, Cl. D44—15.
Gulotta, Gerald D., to Owens-Illinois Glass Co. Cover for a casserole or similar article. 197,575, 2–25–64, Cl. D44—15.
Gunion, Lyle B., and L. R. Wilcox, to Green Colonial, Inc. Portable utility cabinet for service stations or the like. 197,532, 2–18–64, Cl. D52—2.
Gunshi, Mitsuo. Plate or similar article. 199,686, 12–1–64, Cl. D44—15.
Gurian, Kenneth J., and R. W. Service, to Riker Laboratories, Inc. Combined aerosol actuator and dispenser for medicaments. 197,687, 3–10–64, Cl. D83—1.
Gusdorf, Walter. Portable television cart. 197,282, 1–7–64, Cl. D33—3.
Gusdorf, Walter. Bracket for swivel shelf. 198,394, 6–9–64, Cl. D54—1.
Gusdorf, Walter. Bracket and mounting support for swivel shelf. 198,395, 6–9–64, Cl. D54—1.
Guss, Louis. Urine specimen receptacle, or similar article. 197,827, 3–24–64, Cl. D83—1.
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Hill, Wendell L., and Gustafson. 198,699.
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Friedman, Morris, and Mackey. 197,791.
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Haas, Andrew J. Dental table unit or similar article. 197,406, 1–28–64, Cl. D24—1.
Hack, Nathan. Machine pad. 199 838, 12–22–64, Cl. D9—6.
Haddad, Amram. Doll package. 197,629, 3–3–64, Cl. D58—2.
Haddad, William. Bicycle-type exerciser. 197,724, 3–17–64, Cl. D34—5.
Hagberg, Verner J., to M. Greenberg's Sons, Inc. Fire hydrant. 198,967, 8–18–64, Cl. D91—3.
Haggard, Samuel E., to Mandrel Industries, Inc. Geophone. 199,472. 10–27–64, Cl. D72—1.
Hägglund, Gösta E., G. E. Åstrom, and B. S. L. Strandberg, to Hägglund & Soner, Aktiebolaget. Ship's crane. 197,473, 2–11–64, Cl. D41—1.
Hägglund & Soner, Aktiebolaget: *See*—
Hägglund, Gösta E., Åstrom, and Strandberg. 197,473.
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Hahn, Inc.: *See*—
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Hahn, Jerome S., to Regent-Sheffield, Ltd. Knife or similar article. 198,908, 8–18–64, Cl. D22—3.
Hale, Gordon B., and H. Najimian, Jr., to Outboard Marine Corp. Boat canopy top. 199,215, 9–22–64, Cl. D71—1.
Hall, Fred W., to Gerity Products, Inc. Combined dishwasher and faucet fixture. 198,966, 8–18–64, Cl. D91—3.
Hall, Horace N., to E. J. Lavino and Co. Refractory block. 198,114, 4–28–64, Cl. D81—25.
Hall, Larry E.: *See*—
Malzahn, Gus E., Roth, and Hall. 197,273.
Hall, Richard B., to Dominion Electric Corp. Hair dryer. 197,589, 2–25–64, Cl. D86—10.
Hall, Richard B., to Dominion Electric Corp. Handle for electrically operated toothbrush or the like. 197,699, 3–17–64, Cl. D9—2.
Hall, Richard B., to Dominion Electric Corp. Hair drying blower. 197,938, 4–7–64, Cl. D86—10.
Hall, Richard B., to Dominion Electric Corp. Holder for power toothbrush unit. 199,728, 12–8–64, Cl. D4—3.
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Hall, Wayne F. 199,197.
Hall, Wayne F., to Hall Sign and Post, Inc. Sign-supporting pole cap. 199,197, 9–22–64, Cl. D54—1.
Hallett Mfg. Co.: *See*—
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Halpern, Sidney K. Radio. 199,639, 11–24–64, Cl. D56—4.
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Hamilton, Earl F., to Hamilton Cosco, Inc. Chair. 197,969, 4–14–64, Cl. D15—1.
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Hamilton, Earl F., to Hamilton Cosco, Inc. Planter. 198,926, 8–18–64, Cl. D35—3.
Hamilton, Earl F., and E. K. Moore, to Hamilton Cosco, Inc. Automobile desk. 198,627, 7–14–64, Cl. D33—7.
Hamilton, Kent, H. C. Grabbe, and R. S. Zimmerman, said Hamilton assor. to said Grabbe and Zimmerman. Sailboat. 198,609, 7–7–64, Cl. D71—1.
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Hamilton, Robert S. Combined dentrifice dispenser and tooth brush holder. 197,593, 3–3–64, Cl. D4—3.
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Hankins, Robert. Casing for a marking pen. 198,419, 6–9–64, Cl. D74—17.
Hanko, William B. Boot heel insert. 198,306, 6–2–64, Cl. D7—5.
Hanna, Mary E. Fishing lure. 199,568, 11–17–64, Cl. D31—4.
Hanna, Michael J., and F. A. Maljan, to Malmik Enterprises. Set of chess pieces. 197,525, 2–18–64, Cl. D34—5.
Hannon, William J., Jr., to The Macbick Co. Combined cabinet, sink and table unit for use in a hospital. 197,603, 3–3–64, Cl. D16—2.
Hannon, William J., Jr., to The Macbick Co. Combined table and shelf unit. 197,779, 3–24–64, Cl. D33—14.
Hannon, William J., Jr., to The Macbick Co. Combined closure and flask or similar article. 199,153, 9–15–64, Cl. D58—8.
Hannon, William J., Jr., to The Macbick Co. Closure for medical flask or similar article. 199,155, 9–15–64, Cl. D58—26.
Hanopole, Irwin. Box for displaying merchandise. 198,411, 6–9–64, Cl. D58—12.6.
Hansen, David E., to Eastman Kodak Co. Slide projector. 198,766, 7–28–64, Cl. D61—1.
Hansen, Harold. Fish scaler. 199,837, 12–22–64, Cl. D9—2.
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Harenza, Edward R., to Miehle-Goss-Dexter, Inc. Rotary printing press. 199,706, 12–1–64, Cl. D64—11.

Harkins, William H., to Connecticut Technical Corp. Bowling scorer table top. 198,692, 7–21–64, Cl. D34—5.
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Harling, Donald W., and P. J. Curtin, to McGraw-Edison Co. Luminaire. 199,267, 9–29–64, Cl. D48—31.
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Harper, Irving, to Howard Miller Clock Co. Decorative element for lighting fixtures and the like. 197,857, 3–31–64, Cl. D48—14.
Harper, Irving, to Howard Miller Clock Co. Decorative element for lighting fixtures and the like. 197,858, 3–31–64, Cl. D48—14.
Harper, Irving, to Howard Miller Clock Co. Decorative element for lighting fixtures and the like. 197,859, 3–31–64, Cl. D48—14.
Harper, Robert J., to Northwestern Refining Co. Service station canopy. 199,353, 10–13–64, Cl. D13—1.
Harper, Robert J., to Northwestern Refining Co. Store. 199,523, 11–10–64, Cl. D13—1.
Harrigan, Thomas W. Golf club attachment. 198,136, 5–5–64, Cl. D34—5.
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Harrison, Edward W., to General Electric Co. Refrigerator cabinet or similar article. 199,652, 11–24–64, Cl. D67—3.
Harrison, Raymond D., to W. A. Sheaffer Pen Co. Display case or similar article. 199,709, 12–1–64, Cl. D80—11.
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O'Neil, Harvey L. 198,662.
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Harvey, Richard. Modular unit for grille panels. 199,786, 12–15–64, Cl. D13—1.
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Hass, Martin A. Combined gum and muscle exerciser or the like. 197.889, 4–7–64, Cl. D24—1.
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Hawley, Richard A., and H. B. Hanson, to Meat Packers Equipment Co. Spring tension cover for a dual-unit food mold. 198,238, 5–19–64, Cl. D58—26.
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Hazelquist, John L., to Traub Mfg. Co. Finger ring. 199,500, 11–3–64, Cl. D45—10.
Hazlett, Rodney B. Condiment shaker. 199,138, 9–15–64, Cl. D44—22.
Heck, Richard A., M. Ferar, and C. R. Russell, to Sears, Roebuck and Co. Cooking range. 197,685, 3–10–64, Cl. D81—4.
Hedgcock, Cyril E., to Colgate-Palmolive Co. Bottle or similar article. 198,510, 6–23–64, Cl. D58—8.
Hedgcock, Cyril E., to Colgate-Palmolive Co. Bottle or similar article. 198,870, 8–11–64, Cl. D58—8.
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Hendrick, David L., and J. R. Ridge, to Joe Lowe Corp. Frozen confection. 198,774, 7–28–64, Cl. D82—2.
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Heselov, Simon. Bin dispenser. 198,889, 8–11–64, Cl. D80—9.
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Heyer, Don, to Hyer Hardware Mfg. Co. Pull for doors, drawers, and the like. 197,955, 4–14–64, Cl. D10—8.
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Heyer, Don, to Hyer Hardware Mfg. Co. Pull for doors, drawers, and the like. 197,957, 4–14–64, Cl. D10—8.
Heyer, Don, to Hyer Hardware Mfg. Co. Pull for doors, drawers, and the like. 197,958, 4–14–64, Cl. D10—8.
Heyer, Don, to Hyer Hardware Mfg. Co. Pull for doors, drawers, and the like. 197,959, 4–14–64, Cl. D10—8.
Heyer, Don, to Hyer Hardware Mfg. Co. Pull for doors, drawers, and the like. 197,960, 4–14–64, Cl. D10—8.
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Hiers, James E., and L. F. Wildgen, to Union Tank Car Co. Regenerating liquid container for water conditioner. 197,834, 3–24–64, Cl. D91—1.
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Hill, Edward J. Tray for urinalysis equipment. 199,830, 12–15–64, Cl. D83—1.
Hill, Edward J. Tongue blade. 199,946, 12–29–64, Cl. D83—12.
Hill, Frank. Lawn mower. 197,659, 3–10–64, Cl. D40—1.
Hill, Walter L., and H. B. Hoover, to Raytheon Co. Control knob. 198,030, 4–21–64, Cl. D26—13.
Hill, Wendell L., and B. R. Gustafson. Rake head. 198,699, 7–21–64, Cl. D39—1.
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Hirashiki, James. Foldable traversing screen. 198,505, 6–23–64, Cl. D54—2.
Hirashiki, James. Foldable traversing screen. 198,640, 7–14–64, Cl. D54—2.
Hirashiki, James. Foldable traversing screen. 198,641, 7–14–64, Cl. D54—2.
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Hofferberth, Herbert W. Safety paper. 198,725, 7–21–64, Cl. D59—6.
Hoffinger, Martin. Combined swimming pool filter and motor coupling. 199,481, 10–27–64, Cl. D91—3.
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Hollins, Lewis S. Cosmetic rack for lipstick holders, makeup pencils, bobbie pins and the like. 199,111, 9–8–64, Cl. D86—10.
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Holloway, Joseph W., to Stemco Mfg. Co., Inc. Boat. 199,160, 9–15–64, Cl. D71—1.
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Holt, William E. Combined portable vacuum cleaner tank and accessory basket. 197,881, 4–7–64, Cl. D9—2.
Holtzman, Samuel J. Luggage case or similar article. 197,752, 3–17–64, Cl. D87—5.
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Ishida, Akiyasu. Lady's shoe. 199,388, 10–20–64, Cl. D7—5.
Itaya, Francis T. Holder for a telephone receiver. 197,563, 2–25–64, Cl. D26—14.
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Jaffe, John C., and P. Kleinman. Acoustical panel. 197,703, 3–17–64, Cl. D13—1.

Jaffe, Joseph L., Jr., and A. E. Crisfield, to The Perfeclite Co. Lighting fixture. 197,530, 2–18–64, Cl. D48—4.

Jagger, John D., to International Business Machines Corp. Combined card reader and card punch machine or similar article. 198,915, 8–18–64, Cl. D26—5.

Jahn, Frederick L., to Eaton Paper Corp. Display stand for photographs and the like. 199,291, 9–29–64, Cl. D80—9.

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Jennings, Charles E., Jr. Garment dryer. 198,706, 7–21–64, Cl. D49—1.

Jennings, Charles E., Jr. Clothes dryer. 199,145, 9–15–64, Cl. D49—1.

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Jerauld, Robert, and G. D. Fator. Fire hose winding and tightening tool. 197,344, 1–14–64, Cl. D41—1.

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Johnson, James D. Child's savings bank. 197,782, 3–24–64, Cl. D34—11.

Johnson, James D. Child's savings bank. 197,783, 3–24–64, Cl. D34—11.

Johnson, James D. Child's savings bank. 197,784, 3–24–64, Cl. D34—11.

Johnson, James D. Child's savings bank. 197,785, 3–24–64, Cl. D34—11.

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Johnson, Logan W., and J. J. Schwartz, to Kleen-Shot Corp. Golf club cleaning machine. 199,519, 11–10–64, Cl. D9—2.

Johnson, Lyle A., to San Francisco Chronicle. Cable car play house. 197,526, 2–18–64, Cl. D34—15.

Johnson, Marshall B., to The Black and Decker Mfg. Co. Portable electric jig saw. 197,549, 2–18–64, Cl. D93—3.

Johnson, Marshall B., to The Black and Decker Mfg. Co. Combination storage and carrying case. 198,302, 5–26–64, Cl. D87—5.

Johnson, Martin A. Waste basket. 199,000, 8–25–64, Cl. D58—17.

Johnson, Maurice V., Jr., to Sunkist Growers, Inc. Fruit engaging element for use in a conveyor for handling and sizing fruit. 198,992, 8–25–64, Cl. D54—13.

Johnson, Maurice V., Jr., to Sunkist Growers, Inc. Fruit engaging element for use in a conveyor for handling and sizing fruit. 198,993, 8–25–64, Cl. D54—13.

Johnson, Maurice V., Jr., to Sunkist Growers, Inc. Fruit engaging element for use in a conveyor for handling and sizing fruit. 198,994, 8–25–64, Cl. D54—13.

Johnson, Morton W. Combined boat, trailer, kitchen unit and enclosed carrier. 199,431, 10–27–64, Cl. D14—3.

Johnson, Paul E., Jr. Sock. 198,226, 5–19–64, Cl. D47—7.

Johnson, Paul E., Jr. Sock. 198,227, 5–19–64, Cl. D47—7.

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Rempel, Robert C., Morris, and Jones. 199,442.

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Jones, Charles E., and R. H. and W. G. Crowle, ½ each to Science Research Associates, Inc., and Delaware and Western Publishing Co., Inc. Nesting counting member for elementary arithmetic instruction. 199,440, 10–27–64, Cl. D25—1.

Jones, Charles E., and R. H. and W. G. Crowle, ½ to Science Research Associates, Inc., and ½ to Western Publishing Co., Inc. Storage receptacle and base for elementary arithmetic instruction set. 199,565, 11–17–64, Cl. D25—1.

Jones, Emmett A. Ash tray. 199,382, 10–13–64, Cl. D85—2.

Jones, Frank B., and P. E. Manning, to Dunlop Tire and Rubber Corp. Tire. 199,554, 11–10–64, Cl. D90—20.

Jones, Harold B., to Leitner Equipment Co. Food display case. 197,321, 1–7–64, Cl. D80—11.

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Jones, James, to Sta-Dri (Cabs) Ltd. Cab for a tractor or the like. 198,903, 8–18–64, Cl. D14—3.

Jones, Malcolm C. Holder for a drinking glass or the like. 198,072, 4–28–64, Cl. D4—3.

Jones, Phillip F. Paint brush. 199,520, 11–10–64, Cl. D9—2.

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Judson, William V.: *See—*
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Judson, William V., to General Electric Co. Clock or similar article. 199,254, 9–29–64, Cl. D42—7.

Judson, William V., and M. C. Hauenstein, to General Electric Co. Clock or similar article. 198,177, 5–12–64, Cl. D42—7.

Judson, William V., and A. M. Felske, to General Electric Co. Clock or similar article. 199,255, 9–29–64, Cl. D42—7.

Judson, William V., and T. G. Daher, to General Electric Co. Hair dryer carrying case or similar article. 199,833, 12–15–64, Cl. D87—5.

Judson, William V., and C. N. Johnson, to General Electric Co. Clock or similar article. 199,856, 12–22–64, Cl. D42—7.

Juen, Joseph J., to Inter-Marc Corp. Garbage can caddy. 198,621, 7–14–64, Cl. D14—3.

Kahiuk, Joseph. Pants cuff marker template. 199,929, 12–29–64, Cl. D52—6.

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Kaiser, Jack N., to American Radiator & Standard Sanitary Corp. Lavatory. 198,016, 4–21–64, Cl. D4—2.
Kaiser, Jack N., to American Radiator & Standard Sanitary Corp. Water closet. 199,049, 9–8–64, Cl. D4—5.
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Saporito, Dominic A. 197,885.
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MacVicar, Frederick H., Cox, Wendt, and Katogir. 198,352.
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Katz, Adolph, to Coro, Inc. of Rhode Island. Font of type. 197,747, 3–17–64, Cl. D64—12.
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Katz, Adolph, to Coro, Inc. of Rhode Island. Finger ring. 199,364, 10–13–64, Cl. D45—10.
Katz, Adolph, to Coro, Inc. of Rhode Island. Finger ring. 199,453, 10–27–64, Cl. D45—10.
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Katzman, Lawrence, and M. L. Levin, to Kaz Mfg. Co., Inc. Steam vaporizer. 197,937, 4–7–64, Cl. D83—1.
Katzman, Lawrence, and M. L. Levin; said Levin assignor to Kaz Mfg. Co., Inc. Medicinal steam vaporizer or the like. 199,381, 10–13–64, Cl. D83—1.
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Keller, Robert R. Grid core for a translucent building panel or similar article. 198,259, 5–26–64, Cl. D13—1.
Keller, Robert R. Grid core for a translucent building panel or similar article. 199,524, 11–10–64, Cl. D13—1.
Keller, Robert R. Grid core for a translucent building panel or similar article. 199,525, 11–10–64, Cl. D13—1.
Keller, Walter T., and R. L. Wehner, to Cramer Posture Chair Co., Inc. Combined step and stool. 197,842, 3–31–64, Cl. D15—8.
Kelley, Robert C., to Brunswick Corp. Buffing machine or the like. 197,698, 3–17–64, Cl. D9—2.
Kellogg, Thomas, to The Songrand Corp. Hand massager. 199,380, 10–13–64, Cl. D83—1.
Kellogg, Thomas, to The Songrand Corp. Foot massager. 199,714, 12–1–64, Cl. D83—1.
Kellum, James M., and E. E. Bolkcom, to Poly-Cron, Inc. Combination beverage key cooler and dispenser. 199,329, 10–6–64, Cl. D52—2.
Kelly, Burton, to Sunbeam Corp. Electric shaver. 197,333, 1–14–64, Cl. D22—3.
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Kelso, Robert E., to Dowley Mfg., Inc. Servicing tool for universal joints. 197,303, 1–7–64, Cl. D54—13.
Kemplin, Richard M., to F. L. Moseley Co. Graphical recorder. 199,445, 10–27–64, Cl. D26—14.
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Kenney, Mahlon W., and C. W. Sundberg, to The Seeburg Corp. Combined remote control unit and speaker for an automatic phonograph. 197,669, 3–10–64, Cl. D56—4.
Kent, George R., to Colight, Inc. Optical comparator for printed matter and the like. 198,938, 8–18–64, Cl. D57—1.
Kentes, Frances M., ⅔ to J. P. Kentes. Vehicle mirror. 198,125, 5–5–64, Cl. D14—6.
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Kerr, Kenneth C. Head rest. 198,449, 6–16–64, Cl. D15—3.
Kerr, Roger B., to General Electric Co. Edgewise panel meter. 197,301, 1–7–64, Cl. D52—6.
Kerr, Roger B., to General Electric Co. Panel meter. 197,483, 2–11–64, Cl. D52—6.
Kerr, Roger B., to General Electric Co. Control station for process controller. 198,684, 7–21–64, Cl. D26—1.
Kerr, Roger B., to General Electric Co. Process controller. 198,685, 7–21–64, Cl. D26—1.
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Garrett, Ross E. 197,641.
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Kettell, Philip E., to E. A. Adams & Son Inc. Decorative tube for cosmetic containers, perfume bottles and the like. 199,347, 10–6–64, Cl. D86—10.
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Kiekhaefer, Elmer C., D. F. McCormick, and A. F. Miller, to Kiekhaefer Corp. Outboard propulsion unit. 198,553, 6–30–64, Cl. D71—1.
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Kimberley, Walter R., to Lear Siegler, Inc. Heater. 199,343, 10–6–64, Cl. D81—19.
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Kindlund, Victor M. and C. S. Combined birth record and picture frame. 199,492, 11–3–64, Cl. D29—20.
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Kjer Jakobsen, Robert E., to Schlumberger Ltd. Chair. 199,059, 9–8–64, Cl. D15—1.
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Klein, James H., and F. I. Tallentire, to Frost Engineering Development Corp. Balling gun for use in introducing boluses into an animal's mouth. 199,831, 12–15–64, Cl. D83—12.
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Klinger, Guy G., to The Electric Storage Battery Co. Eye shield for a gas mask or similar apparatus. 199,945, 12–29–64, Cl. D83—1.
Klun, Godfrey H. Cap for a pressurized can. 198,109, 4–28–64, Cl. D58—26.
Klun, Godfrey H. Cap for a pressurized can. 198,110, 4–28–64, D58—26.
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Knowles, Frederick G., to Eastman Kodak Co. Photographic copying machine. 197,540, 2–18–64, Cl. D61—1.
Knowles, Frederick G., to Eastman Kodak Co. Film transparency cutter-tacker. 199,872, 12–22–64, Cl. D61—1.
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Kohorst, Joseph. Catch basin screen. 198,520, 6–23–64, Cl. D91—3.
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Kortum, Floyd W. Baseball glove. 198,560, 7–7–64, Cl. D3—11.
Korzeniewski, Robert. Combined gun barrel lock-up ramp and sight. 199,065, 9–8–64, Cl. D30—1.
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Koukal, Louis. Combined closure and dispenser. 198,599, 7–7–64, Cl. D58—26.
Kraeft, Robert W. Holder for silver flatware. 199,581, 11–17–64, Cl. D44—29.
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Kraissl, Frederick, Jr. Motor pump unit. 199,101, 9–8–64, Cl. D65—1.
Kramer, George L., to Standard Packaging Corp. Automatic vending machine for greeting cards or the like. 198,989, 8–25–64, Cl. D52—3.
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Kudlaty, Walter J., to Marvel Engineering Co. Universal filter body head. 199,139, 9–15–64, Cl. D46—1.
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Lardenois, Robert. Hair brush. 198,441, 6–16–64, Cl. D9—2.
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Loeser, Theodore S., to Union Carbide Corp. Fruit tray. 198,546, 6–30–64, Cl. D58—13.
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MacVicar, Frederick H., D. F. Cox, A. R. Wendt, and M. Katogir, to Callaway Mills Co. Floor covering display cabinet. 198,352, 6–2–64, Cl. D80—11.
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Mattson, Charles A., and F. O. Ottosen, by H. Ottosen, executrix, to Sunbeam Corp. Snow thrower. 197,527, 2–18–64, Cl. D35—2.
Mattson, Charles A., and W. V. Kalnins, to Sunbeam Corp. Portable tool housing for cutting implements. 198,328, 6–2–64, Cl. D40—1.
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McDonald, Frank D., to Wen-Mac Corp. Toy amusement ride. 199,744, 12–8–64, Cl. D34—15.
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McDorman, Robert S. Ash tray. 198,614, 7–7–64, Cl. D85—2.
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McFadyen, Richard, to Ketcham and McDougall, Inc. Clip board. 198,417, 6–9–64, Cl. D74—2.
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McLeod, Charles A., to Sunbeam Corp. Clock. 198,331, 6–2–64, Cl. D42—7.
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Meeker, William H. Jewelry box. 199,820, 12–15–64, Cl. D58—12.7.
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Mei, Tsui K., to Ming Wah Electric Bulbs Factory. Letter for signs or the like. 199,777, 12–15–64, Cl. D1—12.
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Middlemark, Marvin P. Indoor television antenna. 198,852, 8–11–64, Cl. D26—14.
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Monkarsh, Jerome D. Plant container. 197,291, 1–7–64, Cl. D35—3.
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Petersen, Warren D., to Schlumberger Ltd. (Schlumberger N.V.). Chair. 199,902, 12–29–64, Cl. D15—1.
Peterson, Dana. Hand telephone. 197,467, 2–11–64, Cl. D26—14.
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Peterson, Glen R., Jr., and H. Ruckner, to Oscar Schmidt International, Inc. Stringed musical instrument. 199,761, 12–8–64, Cl. D56—1.
Peterson, Jerold R., to Sunbeam Corp. Combined display and charging unit for battery operated appliance. 199,234, 9–29–64, Cl. D4—3.
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Peterson, William C. Toy landing craft. 199,318, 10–6–64, Cl. D34—15.
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Petrone, Louis R., and F. W. Stevens, to W. R. Grace & Co. Carrier for cans. 199,284, 9–29–64, Cl. D58—26.
Pettavel, Jacques A., to Societe Genevoise d'Instruments de Physique. Machine for measuring dimensions of solid materials. 197,484, 2–11–64, Cl. D52—6.
Pettengill, Myron F., to General Electric Co. Luminaire. 198,812, 8–4–64, Cl. D48—31.
Pfaff, Henry C., Jr., and F. G. Schlosser, to Pfaff and Kendall. Base for outdoor lamp poles or the like. 198,099, 4–28–64, Cl. D48—31.
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Phelps, Lloyd W. Clock. 198,466, 6–16–64, Cl. D42—7.
Phelps, Peter M., and A. L. Fuller, to The Fluor Corp., Ltd. Cooling tower. 198,147, 5–5–64, Cl. D62—4.
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Plummer, James E., to Owens-Illinois Glass Co. Bottle. 198,944, 8–18–64, Cl. D58—9.
Plummer, James E., to Owens-Illinois Glass Co. 198,945, 8–18–64, Cl. D58—9.
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Pohlmann, Charles F., to General Electric Co. Record player or similar article. 198,715, 7–21–64, Cl. D56—4.
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Powers, Howard A., to W. H. Brady Co. Drafting tape dispenser or the like. 198,347, 6–2–64, Cl. D74—1.
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Rhoades, Nolan, to Simplicity Mfg. Co. Seat unit for a tractor. 199,304, 10–6–64, Cl. D14—3.
Rhoades, Nolan K., to The Brearley Co. Bathroom scale. 197,533, 2–18–64, Cl. D52—10.
Rhoades, Nolan K., and R. T. Jacobsen, to The Electric Storage Battery Co. Portable lantern. 199,540, 11–10–64, Cl. D48—24.
Rhoades, Nolan K., and D. E. Watkins, to The Electric Storage Battery Co. Emergency lighting unit. 199,541, 11–10–64, Cl D48—24.
Rhodes, Robert V. Child's feeding dish or similar article. 198,387, 6–9–64, Cl. D44—15.
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Richardson, Robert G., to Gilbert & Barker Mfg. Co. Oil burner. 198,353, 6–2–64, Cl. D81—2.
Riddle, Mary R. Christmas card holder. 199,464, 10–27–64, Cl. D59—2.
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Hendrick, David L., and Ridge. 198,773.
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Rieske, William C. Glove box door for the dashboard glove box of a vehicle. 197,462, 2–11–64, Cl. D14—6.
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Roberts, Bruce L., to Owens-Illinois Glass Co. Bottle. 198,647, 7–14–64, Cl. D58—6.
Roberts, Bruce L., to Owens-Illinois Glass Co. Bottle. 198,648, 7–14–64, Cl. D58—6.
Roberts, Bruce L., to Owens-Illinois Glass Co. Bottle. 199,643, 11–24–64, Cl. D58—8.
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Rogers, Stephen L., Jr., and J. L. Raulston. Stove. 199,656, 11–24–64, Cl. D81—19.
Rogers, William C. Aircraft antenna guy fitting. 199,086, 9–8–64, Cl. D54—11.
Rogers, William C. Aircraft antenna guy fitting. 199,087, 9–8–64, Cl. D54—11.
Rohe, Andreas K., to W. Glass. Storage battery case. 197,518, 2–18–64, Cl. D26—6.
Rohe, Andreas K., to W. Glass. Cover for a storage battery case. 197,519, 2–18–64, Cl. D26—6.
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Rolando, John, R. Z. Lerner, and A. Montina, to Stuart M. Lerner, Inc. Combined valet stand and seat. 199,532, 11–10–64, Cl. D33—8.
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Rosenberg, Simon. Body massager. 197,750, 3–17–64, Cl. D83—1.
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Roskam, Oliver H. Combination seed package and garden marker. 199,796, 12–15–64, Cl. D35—1.
Ross, Bruce. Pitcher or similar article. 199,035, 9–1–64, Cl. D44—21.
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Russell, Fred J. Combined rose and attaching collar. 199,411, 10–20–64, Cl. D50—6.
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Schreckengost, Viktor, to The Murray Ohio Mfg. Co. Bicycle luggage carrier. 199,774, 12–8–64, Cl. D90—3.
Schreckengost, Viktor, to The Murray Ohio Mfg. Co. Bicycle luggage carrier. 199,775, 12–8–64, Cl. D90—3.
Schreckengost, Viktor, and R. I. Haywood, to Harris-Intertype Corp. Paper cutting machine. 199,864, 12–22–64, Cl. D55—1.
Schreter, Robert E., and J. J. O'Hara, to Hauck Mfg. Co. Gas burner body. 198,010, 4–14–64, Cl. D81—10.
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Schwartz, Harold M. Rug. 198,118, 4–28–64, Cl. D92—21.
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Schwartz, Ira W., and M. S. Cousins, to Pycope, Inc. Tooth brush head, or similar article. 198,124, 5–5–64, Cl. D9—2.
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Seymour, Merritt W., Jr., to Armstrong Cork Co. Acoustical tile. 197,972, 4–14–64, Cl. D18—2.
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Shelare, Robert, and F. Makara. Combined toothpaste and toothbrush holder. 198,777, 8–4–64, Cl. D4—3.
Sheldon, Florence. Carrying case for a cushion. 199,672, 12–1–64, Cl. D15—8.
Shelzi, William. Chaise lounge or similar article. 197,843, 3–31–64, Cl. D15—11.
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Shindler, Anthony, to American Optical Co. Spectacle front. 199,933, 12–29–64, Cl. D57—1.
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Shulkind, Solomon S. Pleated trousers. 198,121, 5–5–64, Cl. D3—17.
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Silsby, Howard W., III, to Farrington Electronics, Inc. Font of type. 198,191, 5–12–64, Cl. D64—12.
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Siraganian, Edward A. and C. S. Combined vacuum printing frame, photocopier, light table and ruler. 199,467, 10–27–64, Cl. D61—1.
Sitt, Eddie. Display hanger for jewelry. 198,516, 6–23–64, Cl. D80—8.
Skeen, John H. Hearing aid battery recharger. 199,245, 9–29–64, Cl. D26—15.
Sklaar, Richard L. Combined pew and kneeler. 198,080, 4–28–64, Cl. D15—11.
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Slosberg, Earl M., to Built-Rite Upholstery Co. Sofa. 198,451, 6–16–64, Cl. D15—11.
Small, George A. Wobble tail for fish lures. 199,624, 11–24–64, Cl. D31—4.
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Smeton, Robert L. Hypodermic syringe or similar article. 198,659, 7–14–64, Cl. D83—12.
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Smith, Edward W., and A. C. Kono, to Kono Mfg. Co., Inc. Eyeglass frame or the like. 199,762, 12–8–64, Cl. D57—1.
Smith, Frances M., to La Resista, Inc. Brassiere. 197,516, 2–18–64, Cl. D20—4.
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Smith, Melbourne F., to Broyhill Furniture Factories. Credenza. 198,322, 6–2–64, Cl. D33—13.
Smith, Melbourne F., Jr., to Broyhill Furniture Factories. Table. 197,430, 2–4–64, Cl. D33—14.
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Smith, Melbourne F., Jr., to Broyhill Furniture Factories. Chest. 198,854, 8–11–64, Cl. D33—6.
Smith, Melbourne F., Jr., to Broyhill Furniture Factories. Table. 199,315, 10–6–64, Cl. D33—14.
Smith, Melbourne F., Jr., to Broyhill Furniture Factories. Table. 199,316, 10–6–64, Cl. D33—14.
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Smith, William J., to Frost Engineering Development Corp. Portable digital meter. 198,913, 8–18–64, Cl. D26—1.
Smittkamp, Carl. Wall mounted desk and telephone shelf combination. 198,919, 8–18–64, Cl. D33—7.
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Sokolis, Albert. Combined folding chair and tackle box. 197,558, 2–25–64, Cl. D15—1.
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Thornton, Charles E., and G. L. Temple. Catamaran offshore drilling vessel. 197,868, 3–31–64, Cl. D71—1.
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Tietje, Helmut G., and R. Schwarz, Jr., to Becton, Dickinson and Co. Pipette tip or similar article. 198,263, 5–26–64, Cl. D16—1.
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Tiller, James A., to American Radiator & Standard Sanitary Corp. Combined lavoratory water closet and cabinet. 197,946, 4–14–64, Cl. D4—2.
Tiller, James A., to American Radiator & Standard Sanitary Corp. Bathroom unit. 198,740, 7–28–64, Cl. D4—2.
Tiller, James A., to American Radiator & Standard Sanitary Corp. Combined lavatory, water closet and cabinet. 199,048, 9–8–64, Cl. D4—2.
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Tiller, James A., and N. L. Maczkov, to American Radiator & Standard Sanitary Corp. Combined lavatory water closet and cabinet. 197,945, 4–14–64, Cl. D4—2.
Tiller, James A., and N. L. Maczkov, to American Radiator & Standard Sanitary Corp. Bathroom unit. 197,947, 4–14–64, Cl. D4—4.
Tiller, James A., and N. L. Maczkov, to American Radiator & Standard Sanitary Corp. Bathroom unit. 198,256, 5–26–64, Cl. D4—4.
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Tindall, John H., E. W. McCreary, and J. C. Hood, to Diamond Donut, Inc. Building. 199,303, 10–6–64, Cl. D13—1.
Tintary, Raymond, to Ajax Hardware Mfg. Corp. Combined display and merchandising rack. 199,942, 12–29–64, Cl. D80—9.
Tipper, Laurence B. Weather shield for a vehicle window. 197,597, 3–3–64, Cl. D14—6.
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Tocci, Louis G. Trash receptacle. 198,291, 5–26–64, Cl. D58—17.
Todd, Robert R. Combined chopping block and bowl. 199,628, 11–24–64, Cl. D44—1.
Toffolon, Siro R., to The International Silver Co. Fork or similar article of flatware. 197,914, 4–7–64, Cl. D54—12.
Toguchi, Fred S., to Royal Castle, Inc. Restaurant. 198,364, 6–9–64, Cl. D13—1.
Tolciss, Joseph, to United States of America, Army. Insulated jug. 199,592, 11–17–64, Cl. D58—5.
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Tredway, Thomas A. Balloon. 199,680, 12–1–64, Cl. D34—15.

Treiss, Herman G., Jr. Water softener. 197,942, 4–7–64, Cl. D91—1.

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Trombley, Bertrand N., to Harper J. Ransburg Co., Inc. Brush holder. 197,594, 3–3–64, Cl. D9—2.

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Trombley, Bertrand N., to Helmac Products Corp. Clothes brush. 198,900, 8–18–64, Cl. D9—2.

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Troy, Leonard. Brake drum. 199,307, 10–6–64, Cl. D14—30.

Truax, George G. Fishing rod holder or the like. 198,090, 4–28–64, Cl. D31—4.

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Turner, Charles E., and S. M. Rutter, to American Electric Mfg. Corp. Luminaire. 199,802, 12–15–64, Cl. D48—31.

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Twist, Ottis D. Fan blade unit. 198,242, 5–19–64, Cl. D62—4.

Tyler, Loren E. Fertilizer spreader. 198,327, 6–2–64, Cl. D35—2.

Tyler, Loren E. Body for fertilizer spreaders or the like. 199,359, 10–13–64, Cl. D35—2.

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LIST OF DISCLAIMERS AND DEDICATIONS

Baker, John F., Dusan S. Gelletich, and William J. Wasylenko, Philadelphia, Pa. Disclaimer filed May 28, 1964, by the inventors and assignee, Burroughs Corporation. No. 3,060,277; v. 805; p. 837.

Baker, John R., Pasadena, and Theodore H. Schorr, Los Angeles, Calif. Disclaimer filed Jan. 29, 1964, by the assignee, Baker Oil Tools, Inc. No. 2,983,318; v. 801; p. 565.

Barringer, Charles Minor, Kennett Township, Chester County, Pa. Dedication filed May 11, 1964, by the assignee, E. I. du Pont de Nemours and Company. No. 3,080,329; v. 805; p. 2.

Bleiman, Howard W., Philadelphia, Pa. Disclaimer filed June 9, 1964, by the assignee, Frank H. Fleer Corporation. No. 3,128,011; v. 805; p. 837.

Boehme, Werner Richard, Somerville, and Edgar Siegmund Schipper, Highland Park, N.J. Disclaimer filed Jan. 21, 1964, by the assignee, Ethicon, Inc. No. 3,006,920; v. 801; p. 265.

Braun, Artur and Rolf Mayer, Frankfurt, and Nikolaus Laing, Stuttgart, Germany. Disclaimer filed Nov. 6, 1963, by the assignee, Braun Aktiengesellschaft. No. 3,109,582; v. 799; p. 586.

Campbell, Harris S., Bryn Athyn, Pa. Disclaimer filed June 25, 1964, by the assignee, Autogiro Company of America. No. 2,659,551; v. 806; p. 617.

Campbell, Harris S., Bryn Athyn, Pa. Disclaimer filed June 25, 1964, by the assignee, Autogiro Company of America. No. 2,670,804; v. 806; p. 617.

Campbell, Harris S., Bryn Athyn, Pa. Disclaimer filed June 25, 1964, by the assignee, Autogiro Company of America. No. 2,877,856; v. 806; p. 617.

Campe, William T., Crystal Lake, Ill., and Robert A. Heinrich, Maple Glen, Pa. Disclaimer filed Dec. 10, 1963, by the assignee, Minneapolis-Honeywell Regulator Company. No. 2,935,653; v. 799; p. 383.

Clayton, Benjamin, Houston, Tex. Dedication filed June 30, 1964, by the assignee, Benjamin Clayton, doing business as Refining, Unincorporated. No. 2,423,638; v. 806; p. 1251.

Clayton, Benjamin, Houston, Tex. Dedication filed June 30, 1964, by the assignee, Benjamin Clayton, doing business as Refining, Unincorporated. No. 2,437,075; v. 806; p. 1251.

Clayton, Benjamin, Houston, Tex. Dedication filed June 30, 1964, by the assignee, Benjamin Clayton, doing business as Refining, Unincorporated. No. 2,472,193; v. 806; p. 1252.

Clayton, Benjamin, Houston, Tex. Dedication filed June 30, 1964, by the assignee, Benjamin Clayton, doing business as Refining, Unincorporated. No. 2,478,089; v. 806; p. 1252.

Clayton, Benjamin, San Marino, Calif. Dedication filed June 30, 1964, by the assignee, Benjamin Clayton, doing business as Refining, Unincorporated. No. 2,483,002; v. 806; p. 1252.

Clayton, Benjamin, Houston, Tex. Dedication filed June 30, 1964, by the assignee, Benjamin Clayton, doing business as Refining, Unincorporated. No. 2,483,623; v. 806; p. 1252.

Clayton, Benjamin, Pasadena, Calif. Dedication filed June 30, 1964, by the inventor. No. 2,678,327; v. 806; p. 1252.

Clayton, Benjamin, Houston, Tex. Dedication filed June 30, 1964, by the inventor. No. 2,769,827; v. 806; p. 1253.

Clayton, Benjamin, Pasadena, Calif. Dedication filed June 30, 1964, by the inventor. No. 2,902,501; v. 806; p. 1253.

Coffing, Frederick W., Danville, Ill. Disclaimer filed Mar. 27, 1964, by the assignee, Duff-Norton Company. No. 2,670,176; v. 803; p. 889.

Coolidge, John E., Arlington Heights, Ill., and Robert J. S. Brown, Fullerton, Calif. Disclaimer filed Sept. 24, 1964, by the assignees, Borg-Warner Corporation and California Research Corporation. No. 3,004,212; v. 809; p. 979.

Dabich, Sam, and John B. Polomski, Detroit, Mich. Disclaimer filed Aug. 26, 1964, by the assignee, Borg-Warner Corporation. No. 2,939,557; v. 809; p. 3.

D'Amico, John J., Nitro, W. Va. Disclaimer filed May 20, 1964 by the assignee, Monsanto Chemical Company. No. 2,943,079; v. 805; p. 582.

de Ruggieri, Pierto, and Carmelo Gandolfi, Milan, Italy. Disclaimer filed Mar. 9, 1964, by the assignee, Ormonoterapia Richter S.p.A. No. 3,114,749; v. 802; p. 871.

Dietrich, Howard H., Rochester N.Y., Charles J. Brady, Phoenix, and Philip J. Garthe, Mesa, Ariz. Disclaimer filed Nov. 26, 1963, by the assignee, General Motors Corporation. No. 3,001,519; v. 799; p. 2.

Eland, Robert C. A., Arcadia, Calif. Disclaimer filed Feb. 27, 1964, by the assignee, Standard Kollsman Industries Inc. No. 2,968,742; v. 803; p. 303.

Feinberg, Albert E., Chicago, Ill. Disclaimer filed July 30, 1964, by the inventor, the assignee, Advanced Transformer Co., assenting. No. 2,820,180; v. 806; p. 1.

Ferchland, Harold W., Birmingham, Mich. Disclaimer filed July 31, 1964, by the assignee, General Motors Corporation. No. 2,972,485; v. 806; p. 1.

Fiske, Paul E., San Diego, Calif. Disclaimer filed Dec. 9, 1963, by the inventor. No. 3,112,482; v. 799; p. 383.

Flinn, George E., Muncie, Ind. Disclaimer filed Aug. 26, 1964, by the assignee, Borg-Warner Corporation. No. 2,893,261; v. 809; p. 3.

Forthmann, Frederick F., Jr., Washington Township, Bergen County, N.J. Disclaimer filed Aug. 4, 1964, by the inventor. No. 3,106,809; v. 808; p. 2.

Fritz, Karl, Hagen, Westphalia, Germany. Disclaimer filed Aug. 26, 1964, by the inventor. No. 2,958,520; v. 808; p. 672.

Frohman, Robert, Gardena, Calif. Disclaimer filed July 31, 1964, by the assignee, The National Cash Register Company. No. 3,001,711; v. 808; p. 2.

Fuchs, Francis J., Jr., Winston-Salem, N.C. Disclaimer filed July 23, 1964, by the assignee, Western Electric Company, Incorporated. No. 3,094,898; v. 807; p. 780.

Gerlach, Karl Albrecht, Dusseldorf, and Kurt Wittig, Lubeck-Kucknitz, Germany. Disclaimer filed Mar. 2, 1964, by the assignee, Clevite Corporation. No. 2,946,924; v. 802; p. 871.

Grabowski, Thomas S., Gary, Ind. Disclaimer filed Nov. 29, 1963, by the assignee, Borg-Warner Corporation. No. 3,053,712; v. 799; p. 204.

Gustison, Robert A., Niagara Falls, Frank W. Hurd, White Plains, and Robert M. Fowler, Niagara Falls, N.Y. Dedication filed Apr. 22, 1964, by the assignee, Union Carbide Corporation. No. 3,131,993; v. 807; p. 1.

Gwynn, Marion H., Mountain Lakes, N.J. Dedication filed June 30, 1964, by the assignee, Benjamin Clayton, doing business as Refining, Unincorporated. No. 2,509,921; v. 806; p. 1252.

Hall, Jesse E., Weatherford, Tex. Dedication filed May 11, 1964, by the assignee, David N. Barry III. No. 2,671,515; v. 805; p. 293.

Hall, Jesse E., Sr., Weatherford, Tex. Dedication filed May 11, 1964, by the assignee, David N. Barry III. No. 2,731,816; v. 805; p. 293.

Hallerberg, Don M., Los Angeles, Calif. Disclaimer filed Apr. 6, 1964, by the inventor. No. 3,090,949; v. 803; p. 889.

Hanert, John M., Des Plaines, Ill. Disclaimer filed Oct. 19, 1964, by the assignee, Hammond Organ Company. No. 2,967,447; v. 808; p. 997.

Harding, James, Greenbrook Township, Somerset County, N.J. Disclaimer filed Dec. 3, 1963, by the assignee, Union Carbide Corporation. No. 2,801,225; v. 799; p. 383.

Hechenbleikner, Ingenuin, Clarksburg, Carl William Pause, Adams, and Francis C. Lanoue, North Adams, Mass. Disclaimer filed Nov. 29, 1963, by the assignee, Hooker Chemical Corporation. No. 2,834,798; v. 799; p. 204.

Hogsed, Milton J. Kinston, N.C. Disclaimer filed Aug. 20, 1964, by the assignee, E. I. du Pont de Nemours and Company. No. 3,123,587; v. 809; p. 3.

Holdeman, John W., and Sam Dabich, Detroit, Mich. Disclaimer filed Aug. 26, 1964, by the assignee, Borg-Warner Corporation. No. 2,926,543; v. 809; p. 3.

Humphrey, Watts S., Jr., Cochituate, and Albert H. Ashley, Bedford, Mass. Disclaimer filed Mar. 26, 1964, by the assignee, Sylvania Electric Products Inc. No. 3,058,096; v. 803; p. 630.

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NOTES CONCERNING USE OF THE CLASSIFICATION OF PATENTS LISTING AND RELATED REFERENCE PUBLICATIONS

In the index which follows, the subject of invention of each patent issued during 1964 is identified by the class and subclass numbers of the official U.S. Patent Office classification in which the patent was classified at the time of issue. The Index is arranged in numerical order by class numbers, which appear as bold-face entries centered in the columns, and thereunder, in similar order, by subclasses which appear in the numerals in the left hand half of the columns. There are 47,578 patent and reissue patent numbers listed in the Index. A similar listing appears for design patents and plant patents which are separately shown under their respective classifications.

In order to find patent numbers in the Index pertaining to a particular subject, the user must first know the class and subclass in which the Patent Office assigns inventions relating to that subject. In some instances a number of classes and subclasses may be pertinent. The process of finding this information requires the coordinated use of several other Patent Office publications usually found in collections which contain the *Index of Patents.* Each of them is considered below.

Manual of Classification: This publication is the source of the needed information as it contains the entire classification schedule showing the number and descriptive title of every class and subclass. It is, also, the key aid in the finding system as it provides a number of features aimed at assisting the user to identify his search problem and to use its content in locating the specific classification representing the subject matter of concern to him. These features include (1) listings of the class titles in alphabetical order; (2) description of the plan of the Manual; (3) discussion of the basis of classification, the scope of the classes, and the schematic arrangement of subclasses; (4) instructions on reading subclass titles and definitions; and, (5) suggestions on procedure for finding pertinent classification.

Index to Classification: This publication contains more than 300 pages of subject matter headings showing for each heading the class and subclass to which it pertains. They are arranged in alphabetical order in main heading and subheading categories, the latter being indented under the main headings and sometimes further subdivided. The headings include key words and significant phrases taken from the class and subclass titles, but they are neither limited to this source nor include all of them. Many technical as well as common terms of reference to objects, arts, processes, compositions of matter, etc., not found in the classification schedule are included in the index headings so as to offer a practical and convenient aid to finding patented subject matter.

Classification Bulletins: This is a series of numbered publications which supplements the *Manual of Classification* by giving detailed definitions and illustration of the kind of subject matter that can be found in each class and subclass, describing the lines of distinction among them, and containing references to other classes and subclasses having related subject matter. There is a separate Bulletin for each major classification, which is identified in the heading to each class in the Manual.

Use of Reference Publications

As a first step, the searcher should look in the *Index to Classification* for the term which to him best represents the subject matter of interest. If a match is not

found, he should look for terms of approximately the same meaning, for terms of either broader or narrower scope, or for terms which represent a different approach to the subject (e.g., the essential *function* or the *effect* of use or application of the art or object of concern). This requires that the user interact with the content of the Index, exercising judgment and imagination to consider alternatives or to find in the listed items some aspect of pertinency to his subject.

On finding the identifying numbers of possibly pertinent classes and subclasses in the Index, the user should refer to the *Manual of Classification* and ascertain from among the existing choices, the precise classification identity of his subject interest. Having thus determined the appropriate class and subclass, the searcher is ready to turn to the "Classification of Patents" listings to look for the corresponding numbers in its columns. The patent numbers found listed under the relevant classification provide the information needed to gain access to the patents themselves or to the extracts from them which are printed in the Official Gazette. In the latter connection, the user will find on the last page of this section a table entitled "List of Patent, Design, Plant Patent, and Reissue Numbers Appearing in the Official Gazette for 1964" which will guide him to the issue of the Official Gazette containing any specific patent number. He will find listed elsewhere in this section the 22 libraries which receive all U.S. patents and maintain them for public use in numerical order and the more than 300 depository libraries which receive the Official Gazette.

When the class and subclass which the searcher has determined to represent his interest does not appear in the "Classification of Patents" listing, he may assume that no patents were issued in that classification during the year. The possibility of this being the case is indicated by the fact that patents issued in less than one-third of the total number of subclasses in the classification.

If, after following the above-described procedure in using the *Index to Classification,* the searcher fails to find a pertinent classification, he should turn to the listings which appear at the front of the *Manual of Classification.* He should consider, particularly, the listing of groups of related subjects and the listing of classes arranged in alphabetical order which, in different ways, lay the entire framework of the classification in broad focus before him. He should scan the titles which appear on these sheets and note those which would appear to contain the subject matter sought.

Whichever of these approaches is taken, the searcher is guided to the classification schedules. He should inspect them carefully, proceeding from one major coordinate subclass to another until finding one which seems most nearly pertinent. The minor subclasses therein should then be scanned to find the title which indicates inclusion of the subject matter in question. Where doubt exists as to choice among several subclasses, the user should consult the Classification Bulletin containing the definitions of the class under study.

Further information on the use of the reference publications discussed above, as aids in using numerical files of patents or extracts of patents published in issues of the Official Gazette which may be found in the libraries listed elsewhere in this section, is offered in the illustrated publication *How To Obtain Information From Patents,* available from the Superintendent of Documents, Washington, D.C., at 20 cents a copy.

1964

CLASSIFICATION OF PATENTS

Class 1

1 : 3,158,867
3 : 3,119,112
3,144,653
3,151,329
.1 : 3,148,373
.1 : 3,156,920
5 : 3,134,981
6 : 3,142,841
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.4 : 3,140,492
.4 : 3,146,459
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.5 : 3,129,429
.5 : 3,133,287
.5 : 3,145,387
.5 : 3,155,980
46 : 3,121,875
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47 : 3,147,484
3,151,330
49 : 3,122,749
3,125,761
3,131,397
3,141,171
3,149,339
3,158,868
.5 : 3,150,378
50 : 3,144,654
53 : 3,157,884
56 : 3,137,858
3,152,334
78 : 3,137,004
95 : 3,144,655
104 : 3,121,876
3,158,869
106 : 3,120,664
3,122,750
3,124,805
3,153,790
107 : 3,145,390
117 : 3,142,066
121 : 3,119,114
3,123,830
187 : 3,133,288
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210 : 3,134,105
3,140,493
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260 : 3,158,870
301 : 3,117,321
302 : 3,147,485
317 : 3,132,343
3,145,388
318 : 3,119,115
321 : 3,126,549
323 : 3,149,340
324 : 3,119,116
325 : 3,159,843
329 : 3,131,398
333 : 3,116,487
335 : 3,148,374
3,149,341
3,151,331
338 : 3,144,656
342 : 3,142,842
343 : 3,161,886
345 : 3,145,389
349 : 3,150,379
3,152,336

Class 2

1 : 3,130,413
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3,147,486
2 : 3,123,831
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3,144,657
3,146,460
2 : 3,146,461
3,153,791
3,154,787
3,158,871
3,162,861
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.5 : 3,130,414
3 : 3,116,488
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3,146,462
3,148,375
3,153,242
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3,155,981
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3,156,922
3,156,923
6 : 3,117,322
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3,148,376
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3,159,844
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3,139,624
10 : 3,137,005
12 : 3,144,658
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14 : 3,141,172
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3,147,489
19 : 3,141,173
20 : 3,146,463
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48 : 3,131,399
49 : 3,146,464
3,146,465
53 : 3,132,346
3,141,174
3,156,924
56 : 3,145,391
68 : 3,120,003
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69 : 3,160,891
73 : 3,149,342
74 : 3,141,175
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76 : 3,137,007
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79 : 3,130,416
83 : 3,144,659
84 : 3,147,490
86 : 3,147,491
88 : 3,144,660
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93 : 3,153,793
94 : 3,122,753
96 : 3,127,617
97 : 3,116,489
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98 : 3,137,008
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102 : 3,119,117
103 : 3,159,846
104 : 3,154,789
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115 : 3,137,860
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126 : 3,154,790
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128 : 3,142,843
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132 : 3,132,347
141 : 3,135,965
143 : 3,145,392
145 : 3,128,470
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148 : 3,154,791
150 : 3,127,618
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153 : 3,146,467
3,147,492
3,157,886
158 : 3,135,966
3,147,493
159 : 3,121,877
3,128,472
3,152,337
160 : 3,124,806
161 : 3,123,832
3,151,333
162 : 3,119,118
163 : 3,152,338
167 : 3,132,348
169 : 3,124,807
3,128,473
3,151,334
3,151,335
172 : 3,134,983
174 : 3,126,550
3,138,801
175 : 3,131,401
177 : 3,125,763
180 : 3,156,925
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194 : 3,156,926
195 : 3,128,474
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197 : 3,133,290
198 : 3,150,381
200 : 3,134,107
202 : 3,145,393
203 : 3,157,887
204 : 3,144,662
206 : 3,134,984
207 : 3,141,176
209 : 3,119,119
3,144,663
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3,153,243
227 : 3,143,741
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3,139,625
234 : 3,120,004
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236 : 3,126,551
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237 : 3,161,890
239 : 3,119,121
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3,148,378
243 : 3,137,864
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244 : 3,153,244
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248 : 3,137,866
250 : 3,152,339
257 : 3,129,435
264 : 3,140,494
268 : 3,121,878
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3,140,495
279 : 3,135,967
322 : 3,155,987
326 : 3,142,844
335 : 3,128,477
338 : 3,153,245
3,153,246

Class 3

1 : 3,130,418
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3,152,340
12.4 : 3,159,847

Class 4

1 : 3,122,756
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2 : 3,148,380
3,162,863
3 : 3,124,808
4 : 3,130,420
3,151,336
6 : 3,132,349
7 : 3,134,985
3,154,793
3,156,929
8 : 3,155,988
10 : 3,157,888
12 : 3,142,845
14 : 3,131,402
18 : 3,135,968
26 : 3,124,809
3,149,344
29 : 3,137,009
34 : 3,151,337
41 : 3,151,338
53 : 3,141,177
56 : 3,121,234
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57 : 3,137,867
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3,154,794
3,158,873
58 : 3,153,247
62 : 3,142,846
67 : 3,117,323
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77 : 3,154,795
90 : 3,124,810
3,154,796
109 : 3,120,005
110 : 3,131,403
3,161,891
112 : 3,160,893
131 : 3,133,291
3,139,626
135 : 3,149,346
3,159,848
137 : 3,118,146
141 : 3,137,010
142 : 3,142,847
3,158,874
146 : 3,132,350
3,139,627
3,149,347
148 : 3,121,235
162 : 3,119,122
3,150,383
166 : 3,151,340
3,156,931
170 : 3,118,147
172 : 3,118,148
3,123,834
172 : 3,128,478
3,139,628
3,142,069
3,144,665
3,148,383
3,148,384
3,155,989
173 : 3,124,811
3,151,341
180 : 3,159,849
183 : 3,129,436
185 : 3,133,292
3,140,496
3,162,864
187 : 3,126,552
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192 : 3,143,744
198 : 3,121,879
204 : 3,125,764
206 : 3,152,341
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222 : 3,143,745
225 : 3,135,969
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239 : 3,153,248
242 : 3,118,149
249 : 3,121,880
3,134,986
252 : 3,125,765
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255 : 3,130,421
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258 : 3,155,990
286 : 3,123,835
287 : 3,119,123

Class 5

2 : 3,135,970
3 : 3,162,865
5 : 3,161,892
8 : 3,130,422
9 : 3,134,109
3,135,971
13 : 3,150,384
17 : 3,123,836
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18 : 3,138,804
3,148,385
29 : 3,151,342
36 : 3,121,237
39 : 3,137,868
48 : 3,130,423
60 : 3,138,805
63 : 3,132,351
3,149,348
66 : 3,149,349
68 : 3,127,619
81 : 3,147,494
82 : 3,121,881
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3,151,343
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85 : 3,116,492
86 : 3,131,404
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90 : 3,129,438
91 : 3,142,070
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93 : 3,129,439
3,137,870
94 : 3,143,746
3,145,395
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97 : 3,145,396
98 : 3,162,866
99 : 3,119,124
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100 : 3,135,973
105 : 3,116,493
3,158,877
109 : 3,119,125
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3,159,851
111 : 3,134,987
118 : 3,118,150
3,141,178
119 : 3,120,007
120 : 3,161,893
136 : 3,116,494
3,159,852
174 : 3,142,848
181 : 3,123,837
185 : 3,117,324
191 : 3,147,495
207 : 3,116,495
230 : 3,119,126
233 : 3,126,553
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238 : 3,118,151
239 : 3,153,249
243 : 3,126,554
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248 : 3,142,071
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263 : 3,131,405
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3,148,387
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333 : 3,144,666
334 : 3,127,621
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336 : 3,121,885
3,134,110
337 : 3,121,886
3,139,631
3,141,179
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338 : 3,118,152
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339 : 3,162,868
341 : 3,139,632
344 : 3,143,748
345 : 3,118,153
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347 : 3,123,838
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348 : 3,128,480
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352 : 3,157,889
354 : 3,132,352
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3,134,988
3,134,989
354 : 3,142,073
362 : 3,147,497

Class 7

5.4 : 3,162,869
6 : 3,142,074
14.6 : 3,158,879

Class 8

1 : 3,148,933
4 : 3,148,017
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6.5 : 3,140,913
14 : 3,118,723
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18 : RE.25,629
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21 : 3,123,432
24 : 3,140,914
34 : 3,118,724
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3,124,411
3,127,231
3,139,321
3,158,434
35 : 3,149,905
41 : 3,122,410
3,123,433
3,125,402
3,131,021
3,148,935
3,158,435
3,160,467
42 : 3,148,936
43 : 3,131,989
3,157,458
50 : 3,117,830
54 : 3,124,412
3,127,232
3,129,052
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55 : 3,117,831
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3,156,519
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57 : 3,119,648
3,135,576
59 : 3,153,563
62 : 3,138,430
65 : 3,125,403
74 : 3,141,728
83 : 3,153,564
91 : 3,156,520
93 : 3,129,053
94.21: 3,116,965
100 : 3,145,073
102 : 3,160,468
108 : 3,120,424
3,140,146
3,142,530
3,156,521
3,158,436
111 : 3,127,233
3,142,531
3,144,297
3,148,018
3,148,019
3,150,918
3,153,565
115.5 : 3,116,966
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.5 : 3,123,434
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.5 : 3,127,234

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.5 : 3,157,459
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.6 : 3,144,298
.6 : 3,150,919
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116 : 3,122,411
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.2 : 3,124,414
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.2 : 3,147,065
.2 : 3,147,066
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.3 : 3,125,406
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.3 : 3,148,937
.3 : 3,160,469
.4 : 3,118,725
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120 : 3,148,021
3,150,920
3,157,460
127.6 : 3,144,300
.6 : 3,145,074
.6 : 3,156,522
128 : 3,128,145
3,129,054
3,149,906
130.1 : 3,122,412
.1 : 3,124,415
.1 : 3,154,374
.1 : 3,159,449
131 : 3,128,148
3,132,919
3,145,075
137 : 3,131,991
139 : 3,116,968
142 : 3,161,460
3,163,493
147 : 3,160,896
149.1 : 3,118,154
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.1 : 3,129,442
150 : 3,151,345
151 : 3,158,880
.2 : 3,126,556
155.1 : 3,145,398
158 : 3,139,633
159 : 3,134,990

Class 9

1 : 3,119,127
3,121,238
3,123,839
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3,134,111
3,134,112
3,134,991
3,135,975
3,138,808
3,143,749
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3,158,882
3,159,853
3,161,895
2 : 3,116,496
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3,123,840
3,123,841
3,126,558
3,129,443
3,139,634
3,150,385
3,152,342
3 : 3,121,888
4 : 3,120,010
6 : 3,116,497
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3,124,813
3,124,814
3,126,557
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.5 : 3,153,796
7 : 3,142,849
8 : 3,116,498
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3,150,387
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3,162,870
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9 : 3,121,239
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10 : 3,126,559
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24 : 3,117,325
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35 : 3,137,013
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3,134,992
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311 : 3,123,845
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312 : 3,152,343
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313 : 3,147,499
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317 : 3,127,624
318 : 3,143,751
319 : 3,119,132
329 : 3,144,668
333 : 3,117,326
334 : 3,134,993
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3,141,180
336 : 3,134,995
337 : Re.25,601
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339 : 3,138,809
340 : 3,137,015
343 : 3,154,800
347 : 3,117,327
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3,141,181
3,161,897

Class 10

1 : 3,128,482
2 : 3,159,855
3,159,856
7 : 3,120,012
9 : 3,150,390
10 : 3,127,625
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3,134,115
3,159,842
11 : 3,116,499
3,126,561
3,146,471
12 : 3,124,816
3,149,353
3,154,801
3,157,892
12.5 : 3,127,626
23 : 3,150,391
25 : 3,132,358
27 : 3,157,893
34 : 3,130,425
43 : 3,123,846
54 : 3,162,871
72 : 3,157,894
76 : 3,117,328
86 : 3,129,444
3,139,636
3,141,182
87 : 3,159,857
89 : 3,117,329
3,132,359
3,153,250
3,157,895
96 : 3,142,076
101 : 3,130,426
3,130,427
3,160,898
105 : 3,134,996
111 : 3,125,772
3,126,560
3,148,394
3,159,858
126 : 3,162,872
128 : 3,124,817
129 : 3,129,445
3,135,979
3,135,980
3,142,077
3,162,873
132 : 3,130,428
135 : 3,134,997
136 : 3,123,847
3,137,016
137 : 3,145,401
139 : 3,121,893
3,125,773
3,139,637
3,146,472
3,158,883
152 : 3,131,407
155 : 3,142,078
3,155,993
3,162,874
162 : 3,139,638

Class 11

1 : 3,117,330
3,122,761
3,123,848
3,124,818
3,129,446
3,146,473
2 : 3,128,484
3,137,874
4 : 3,126,562
5 : 3,132,360

Class 12

1 : 3,120,666
3,160,899
3,161,898
3,162,875
4.1 : 3,157,896
7.1 : 3,142,851
8.2 : 3,141,183
10.1 : Re.25,596
.5 : 3,157,897
12.1 : 3,146,474
.3 : 3,138,810
.5 : 3,126,563
14.2 : 3,149,354
16.2 : 3,157,898
.4 : 3,121,241
17 : 3,119,133
20 : 3,124,819
26 : 3,120,014
39.5 : 3,120,013
47 : 3,118,158
49.1 : 3,116,500
51 : 3,132,361
53.6 : 3,120,667
54.3 : 3,132,362
55.1 : 3,121,242
59.7 : 3,138,811
86.65: 3,129,447
.7 : 3,134,998
120.5 : 3,145,402
127 : 3,152,345
128 : 3,137,875
133 : 3,122,762
141 : 3,144,669
142 : Re.25,529
3,116,501
3,117,331
3,122,763
3,147,500
3,148,395
142 : 3,149,355
145 : 3,130,429
3,130,430
3,144,670
3,155,994
146 : 3,152,346
3,157,899
147 : 3,125,774

Class 13

1 : 3,124,633
3,154,623
6 : 3,140,334
3,142,717
3,145,246
3,147,328
3,148,239
3,150,225
3,151,201
3,160,692
9 : 3,118,013
3,125,622
3,127,462
3,129,274
3,131,246
3,132,198
3,136,835
3,136,836
3,136,837
3,147,329
3,147,330
3,156,753
3,156,754
13 : 3,139,473
3,143,587
14 : 3,122,600
3,146,289
15 : 3,138,649
3,151,202
20 : 3,128,325
3,140,335
22 : 3,160,693
23 : 3,147,331
24 : 3,141,918
25 : 3,134,836
3,150,226
3,155,758
3,155,759
27 : 3,162,710
31 : 3,124,634
3,128,326
3,139,474
33 : 3,128,327
35 : 3,154,624

Class 14

1 : 3,134,116
13 : 3,121,894
18 : 3,132,363
27 : 3,160,900
45 : 3,152,347
71 : 3,117,332
3,121,243
3,122,764
3,134,999
3,137,017
3,137,876
3,138,812
72 : 3,153,798

Class 15

1.5 : 3,117,333
.5 : 3,129,448
.5 : 3,144,671
.5 : 3,149,356
.7 : 3,132,364
3.1 : 3,149,357
.11: 3,132,365
.14: 3,128,485
.5 : 3,120,015
4 : 3,119,134
3,135,000
3,145,403
3,150,392
3,160,901
21 : 3,120,668
3,134,117
3,137,877
3,146,475
3,148,396
3,149,358
22 : 3,119,135
3,133,297
3,138,813
3,142,852
3,156,936
3,159,859
3,160,902
23 : 3,139,639
3,145,404
23 : 3,150,393
3,158,884
3,161,899
27 : 3,127,627
28 : 3,129,449
3,162,876
29 : 3,153,799
31 : 3,143,752
36 : 3,155,995
38 : 3,147,501
41 : 3,145,405
3,159,860
49 : 3,122,765
3,148,397
3,154,802
3,155,996
50 : 3,121,895
3,121,896
3,127,628
3,139,640
3,150,394
3,153,251
51 : 3,128,486
3,158,885
55 : 3,137,018
61 : 3,129,450
74 : 3,121,897
76 : 3,131,408
77 : 3,142,079
79 : 3,119,136
3,134,118
80 : 3,156,937
83 : 3,162,877
88 : 3,121,898
97 : 3,120,669
3,125,775
3,140,498
3,141,184
3,160,903
98 : 3,120,016
3,138,814
3,150,395
3,150,396
100 : 3,157,900
3,158,886
102 : 3,126,564
103 : 3,138,815
104 : Re.25,675
3,148,398
3,156,938
3,158,887
.06: 3,116,503
.06: 3,130,431
.06: 3,146,477
.06: 3,158,888
.09: 3,124,820
.12: 3,134,120
.16: 3,124,821
.19: 3,118,160
.3 : 3,118,159
.3 : 3,120,017
.3 : 3,121,244
.3 : 3,130,432
.3 : 3,134,119
.3 : 3,146,476
.3 : 3,149,359
.3 : 3,150,397
.3 : 3,159,861
.3 : 3,160,904
.3 : 3,162,878
105 : 3,116,502
3,130,433
.5 : 3,155,997
106 : 3,142,080
110 : 3,146,478
118 : 3,124,822
3,137,878
3,146,479
3,147,502
3,149,360
142 : 3,158,889
143 : 3,153,252
144 : 3,135,001
147 : 3,145,406
3,152,348
3,162,879
159 : 3,118,161
3,125,776
3,153,800
160 : 3,140,499
3,142,853
164 : 3,133,298
167 : 3,120,670
3,152,349
176 : 3,128,487
3,134,121
179 : 3,120,018
3,120,671
3,121,245
3,122,766
3,134,122
3,137,020
3,142,081
179 : 3,147,503
180 : 3,118,162
3,142,854
182 : 3,134,123
3,137,021
3,139,641
184 : 3,120,019
187 : 3,128,488
3,151,346
192 : 3,130,434
3,155,998
193 : 3,133,299
3,146,480
3,153,801
198 : 3,139,642
206 : 3,124,823
208 : 3,151,347
210 : 3,117,334
3,126,565
3,142,855
3,150,398
.5 : 3,142,082
227 : 3,124,824
229 : 3,121,246
3,135,002
3,152,350
230 : 3,119,137
3,128,489
3,130,435
3,135,981
3,137,022
.15: 3,160,905
231 : 3,116,504
234 : 3,162,880
235.4 : 3,140,500
.8 : 3,146,481
.8 : 3,162,881
236 : 3,119,138
3,122,767
3,130,436
3,133,300
3,137,879
237 : 3,121,899
244 : 3,118,163
3,122,768
3,131,409
3,131,410
3,134,124
3,135,003
3,137,880
3,157,901
245 : 3,133,301
246 : 3,122,769
3,141,185
3,142,856
.5 : 3,150,399
.5 : 3,156,939
249 : 3,120,020
250.01: 3,120,672
.01: 3,135,004
.02: 3,116,505
.02: 3,121,900
.02: 3,126,566
.02: 3,131,411
.02: 3,133,302
.02: 3,134,125
.02: 3,137,881
.02: 3,146,482
.02: 3,147,504
.02: 3,148,399
.02: 3,153,253
.02: 3,155,999
.02: 3,161,901
.03: 3,121,901
.04: 3,143,753
.04: 3,147,505
.12: 3,117,335
.12: 3,118,164
.12: 3,145,407
.13: 3,122,770
.14: 3,125,777
.14: 3,144,672
.16: 3,133,303
.17: 3,120,673
.17: 3,121,902
.17: 3,132,366
.23: 3,128,490
.23: 3,143,754
.27: 3,139,643
.27: 3,153,802
.3 : 3,135,982
.30: 3,139,644
.32: 3,126,567
.32: 3,133,304
.32: 3,135,983
.32: 3,139,645
.32: 3,144,673
.32: 3,147,506
.32: 3,147,507
.32: 3,147,508
.34: 3,161,902
.35: 3,123,849
.35: 3,125,778
250.35: 3,126,568
.35: 3,126,569
.35: 3,131,412
.35: 3,149,361
.35: 3,160,906
.36: 3,116,506
.36: 3,122,771
.36: 3,140,501
.41: 3,138,816
.42: 3,116,507
.42: 3,116,508
.42: 3,116,509
.42: 3,116,510
.42: 3,117,336
.42: 3,120,674
.42: 3,120,675
.42: 3,121,903
.42: 3,128,491
.42: 3,130,437
.42: 3,131,413
.42: 3,131,414
.42: 3,132,367
.42: 3,132,368
.42: 3,138,817
.42: 3,141,186
.42: 3,153,254
.42: 3,156,940
.42: 3,158,890
256.5 : 3,144,674
.51: 3,121,247
.51: 3,131,415
.51: 3,131,416
.51: 3,134,126
.53: 3,130,438
257 : 3,123,850
3,145,408
.06: 3,139,646
.06: 3,157,902
.1 : 3,135,984
.1 : 3,156,941
.9 : 3,121,248
258 : 3,162,882
260 : 3,150,400
267 : 3,140,502
268 : 3,130,439
302 : 3,162,883
303 : 3,129,451
304 : 3,119,139
306 : 3,119,140
3,145,409
308 : 3,121,904
3,128,492
3,137,882
310 : 3,122,772
3,137,023
311 : 3,144,675
3,150,401
312 : 3,138,818
3,153,803
314 : 3,127,629
3,146,483
317 : 3,138,819
3,140,503
3,157,903
3,160,907
320 : 3,117,337
3,151,348
321 : 3,134,127
323 : 3,137,883
3,159,862
324 : 3,142,083
325 : 3,147,509
3,150,402
327 : 3,142,857
3,148,400
3,149,362
3,150,403
328 : 3,135,985
331 : 3,126,570
337 : 3,147,510
339 : 3,137,884
3,150,404
340 : 3,160,908
345 : 3,161,900
350 : 3,126,571
351 : 3,150,405
353 : 3,131,417
373 : 3,149,363
375 : 3,135,986
377 : 3,120,021
400 : 3,117,338
402 : 3,118,165
406 : 3,119,141
3,131,418
422 : 3,134,128
503 : 3,122,773
3,130,440
504 : 3,158,891
506 : 3,121,249
3,124,825
3,126,572
3,138,820
3,149,364

506 : 3,152,351
3,161,903
507 : 3,130,441
509 : 3,130,442
510 : 3,145,410
511 : 3,133,305
3,157,904
512 : 3,135,987
3,150,406
513 : 3,124,826
3,156,000
514 : 3,162,884
517 : 3,156,942
3,157,905
521 : 3,147,511
522 : 3,160,909
523 : 3,132,369
3,143,755
524 : 3,142,084
527 : 3,120,676
528 : 3,161,904
529 : 3,150,407
531 : 3,118,166
537 : 3,127,630
3,159,863
539 : 3,152,352
541 : 3,132,370
3,162,885
542 : 3,128,493
3,146,484
544 : 3,134,129
546 : Re.25,556
3,123,851
3,126,573
547 : 3,133,306
3,135,005
3,162,886
551 : 3,120,677
552 : 3,121,905
3,134,130
3,137,885
3,145,411
553 : 3,143,756
555 : 3,116,511
560 : 3,140,504
561 : 3,121,250
3,131,419
3,162,887
562 : 3,137,024
563 : 3,133,307
3,140,505
3,141,187
565 : 3,133,308
3,133,309
566 : 3,129,452
3,135,988
3,147,512
3,148,401
567 : 3,161,905
568 : 3,124,827
569 : 3,124,828
3,145,412
3,153,804
571 : 3,134,131
3,149,365
572 : 3,137,886
573 : 3,128,494
3,148,402
575 : 3,135,006
3,152,353
3,158,892
578 : 3,135,989
580 : 3,126,574
581 : 3,119,142
3,121,429
586 : 3,144,676
588 : 3,127,631
3,148,403
592 : 3,121,906
3,133,310
595 : 3,138,821
3,145,413
3,146,485
604 : 3,135,990
605 : 3,148,404
608 : 3,135,007

Class 16

1 : 3,135,008
3,144,677
3,153,255
3,159,864
2 : 3,137,887
3,161,906
4 : 3,158,893
16 : 3,144,678
18 : 3,127,632
3,161,907
21 : 3,127,633
3,142,085
35 : 3,142,086
3,159,865
35 : 3,162,888
43 : 3,128,495
47 : 3,140,506
50 : 3,157,906
51 : 3,137,888
3,149,366
3,160,910
52 : 3,129,453
3,160,911
3,161,908
57 : 3,143,757
59 : 3,135,009
62 : 3,135,991
64 : 3,156,001
66 : 3,131,420
3,158,894
3,162,889
70 : 3,161,909
73 : 3,137,889
79 : 3,156,002
82 : 3,118,167
3,131,421
83 : 3,137,025
85 : 3,137,026
3,156,003
3,160,912
86 : 3,120,022
3,141,188
87 : 3,118,168
3,126,575
.2 : 3,137,027
.2 : 3,137,890
.4 : 3,139,647
.4 : 3,153,256
.4 : 3,157,907
.6 : 3,142,858
88 : 3,143,758
90 : 3,118,169
3,132,371
94 : 3,134,132
3,152,354
95 : 3,157,908
105 : 3,118,170
3,137,028
3,141,189
3,142,859
3,148,405
3,153,805
3,159,866
106 : 3,151,349
108 : 3,120,023
110 : 3,121,907
3,122,774
3,130,443
3,130,444
3,133,311
3,149,367
3,151,350
3,156,943
111 : 3,156,944
112 : 3,135,010
3,142,087
114 : 3,157,909
116 : 3,143,759
118 : 3,119,143
121 : 3,142,088
3,148,406
124 : 3,117,339
126 : 3,159,867
127 : 3,153,806
128 : 3,121,908
3,140,507
.1 : 3,131,423
.1 : 3,135,011
.1 : 3,153,257
.1 : 3,153,258
129 : 3,134,133
3,148,407
3,162,890
130 : 3,146,486
3,152,355
135 : 3,120,024
3,131,422
136 : 3,118,171
137 : 3,135,012
3,140,508
3,153,807
140 : 3,124,829
3,124,830
3,146,487
142 : 3,153,259
3,153,260
146 : 3,156,004
148 : 3,154,803
151 : 3,137,891
3,145,414
153 : 3,134,134
154 : 3,160,913
163 : 3,150,408
169 : 3,135,013
3,152,356
171 : 3,141,190
175 : 3,121,251
176 : 3,143,760
180 : 3,122,775
186 : 3,117,340
190 : 3,162,891
191 : 3,121,909
197 : 3,135,014
198 : 3,146,488
206 : 3,160,914

Class 17

1 : 3,118,172
3,121,252
3,122,776
3,123,852
3,142,860
3,149,368
3,149,369
3,152,357
3,154,804
3,154,805
3,156,005
3,156,006
3,156,945
3,159,868
3,159,869
.1 : 3,124,832
2 : 3,122,777
3,135,015
3,143,761
3,151,351
3,156,946
3 : 3,139,648
4 : 3,116,512
3,123,853
5 : 3,146,489
7 : 3,126,576
3,127,634
9 : 3,128,496
3,151,352
11 : 3,116,513
3,119,144
3,124,831
3,125,779
3,137,892
3,147,513
3,162,892
.1 : 3,120,025
.1 : 3,122,778
.1 : 3,132,372
.1 : 3,145,415
.2 : 3,138,822
15 : 3,135,016
21 : 3,129,454
3,150,409
23 : 3,121,910
25 : 3,116,514
26 : 3,153,808
29 : 3,138,823
32 : 3,120,678
3,137,029
3,153,809
3,153,810
3,153,811
3,158,895
33 : 3,140,509
34 : 3,152,358
3,152,359
3,162,893
35 : 3,148,408
3,150,410
3,162,894
37 : 3,118,173
39 : 3,161,910
41 : 3,122,779
42 : 3,142,861
44.1 : 3,124,833
.1 : 3,132,373
.1 : 3,134,135
.1 : 3,145,416
.1 : 3,152,360
.1 : 3,156,007
.1 : 3,156,947
.2 : 3,137,030
45 : 3,116,515
3,118,174
3,119,145
3,122,780
3,127,635
3,129,455
3,129,456
3,130,445
3,132,374
3,135,017
3,135,992
3,137,031
3,140,510
3,143,762
3,143,763
3,149,370
3,149,371
3,156,948
3,156,949
45 : 3,158,896
3,159,870
3,159,871
3,159,872

Class 18

1 : 3,119,146
3,119,147
3,122,781
3,123,854
3,124,834
3,126,577
3,128,497
3,128,498
3,131,424
3,132,375
3,138,824
3,140,511
3,142,862
3,143,764
3,144,679
3,148,409
3,148,410
3,153,812
3,154,806
3,154,807
3,159,873
3,159,874
2 : 3,118,175
3,121,911
3,122,782
3,122,783
3,122,784
3,128,499
3,130,446
3,134,136
3,135,018
3,137,032
3,140,512
3,141,191
3,142,863
3,146,490
3,147,514
3,151,353
3,154,808
3,156,008
.6 : 3,120,026
.7 : 3,123,855
4 : 3,117,341
3,123,856
3,124,835
3,126,578
3,131,425
3,134,137
3,137,893
3,142,864
3,148,411
3,151,354
3,152,361
3,157,910
3,158,897
5 : 3,116,516
3,118,176
3,118,177
3,118,178
3,120,679
3,121,253
3,122,785
3,122,786
3,122,787
3,123,857
3,124,836
3,125,780
3,125,781
3,127,636
3,131,426
3,133,312
3,135,019
3,135,993
3,141,192
3,141,193
3,142,089
3,145,417
3,146,491
3,149,372
3,149,373
3,153,261
3,154,809
3,157,911
3,158,898
3,159,875
3,161,911
3,162,895
.1 : 3,157,912
.7 : 3,137,894
6 : 3,121,912
3,130,447
3,143,765
3,151,355
3,161,912
8 : 3,120,027
3,121,254
8 : 3,123,858
3,126,579
3,130,448
3,130,449
3,131,427
3,131,428
3,131,429
.5 : 3,132,379
.5 : 3,137,896
.5 : 3,137,897
.5 : 3,149,375
.5 : 3,150,412
.5 : 3,150,413
.7 : 3,154,812
17 : 3,128,501
3,141,195
3,152,364
3,153,263
3,154,813
3,158,903
3,160,919
18 : 3,118,181
3,135,996
3,135,997
3,142,867
3,154,814
3,162,898
19 : 3,117,344
3,118,182
3,121,256
3,121,916
3,122,791
3,123,863
3,126,582
3,126,583
3,130,451
3,132,380
3,133,314
3,133,315
3,135,998
3,137,036
3,137,037
3,138,826
3,141,196
3,142,868
3,149,376
3,153,813
3,156,012
3,158,904
3,161,915
3,161,916
3,162,899
20 : 3,117,345
3,118,183
3,121,917
3,129,464
3,151,359
21 : 3,124,840
3,143,769
25 : 3,136,748
26 : 3,117,346
3,131,431
3,134,140
3,154,815
30 : 3,117,347
3,117,348
3,118,184
3,120,680
3,121,257
3,121,918
3,121,919
3,123,864
3,124,841
3,127,637
3,128,502
3,129,465
3,130,452
3,131,432
3,131,433
3,132,381
3,133,316
3,134,141
3,135,020
3,137,038
3,141,197
3,144,683
3,148,413
3,149,377
3,153,814
3,153,815
3,154,816
3,156,013
3,158,905
3,159,878
3,162,900
33 : 3,131,434
34 : 3,124,842
3,128,503
3,137,039
.1 : 3,161,917
35 : 3,121,920
3,160,920
36 : 3,117,349
36 : 3,128,504
3,135,999
3,143,770
3,145,421
3,149,378
3,159,879
38 : 3,123,865
3,156,015
39 : 3,132,382
3,136,000
3,142,094
3,145,422
42 : 3,121,258
3,128,505
3,134,142
3,134,143
3,136,001
3,138,827
3,145,423
3,151,360
3,152,365
3,158,906
3,160,921
3,161,918
44 : 3,144,684
45 : 3,120,028
3,133,317
3,136,002
3,137,898
3,148,414
3,158,907
3,162,901
47 : 3,120,029
3,161,919
48 : 3,121,131
3,125,617
57 : 3,127,456
59 : 3,121,133

Class 19

.23: 3,149,379
.25: 3,124,843
.51: 3,161,920
.56: 3,150,414
13 : 3,141,198
50 : 3,151,361
52 : 3,145,424
55 : 3,136,003
3,160,922
56 : 3,135,021
59 : 3,162,902
3,162,903
63 : 3,162,904
65 : 3,130,453
66 : 3,156,016
3,160,923
80 : 3,133,318
3,135,022
82 : 3,159,880
93 : 3,122,792
95 : 3,136,004
96 : 3,127,638
97 : 3,123,866
.5 : 3,137,040
98 : 3,134,144
3,145,425
3,154,817
102 : 3,143,771
105 : 3,120,030
3,144,685
3,144,686
3,145,426
106 : 3,119,152
3,132,383
3,145,427
3,145,428
3,157,915
3,159,881
107 : 3,150,415
113 : 3,148,415
114 : 3,118,185
3,136,005
3,151,362
115 : 3,128,506
127 : 3,146,496
129 : 3,156,951
144.5 : 3,131,435
.5 : 3,131,436
145 : 3,129,466
.3 : 3,154,818
.5 : 3,139,650
.5 : 3,141,199
.5 : 3,144,687
150 : 3,135,023
3,153,816
3,156,952
155 : 3,124,844
3,126,584
3,128,507
3,134,145
3,145,430
156.1 : 3,151,363

Class 19—Con.

156.4 : 3,131,437
157 : 3,116,517
3,145,429
159 : RE.25,520
3,125,782
3,141,200
3,141,201
161 : 3,150,416
203 : 3,121,921
3,150,417
205 : 3,133,319
3,142,869
225 : 3,125,783
231 : 3,142,870
234 : 3,135,024
3,161,921
236 : 3,148,416
240 : 3,141,202
244 : 3,126,585
245 : 3,116,518
3,122,793
3,132,384
3,132,385
3,156,953
247 : 3,145,431
249 : 3,130,454
252 : 3,120,681
3,136,006
253 : 3,160,924
255 : 3,125,784
3,129,467
259 : 3,139,651
3,145,432
262 : 3,150,418
263 : 3,126,586
3,141,203
272 : 3,143,772
3,150,419
274 : 3,126,587
283 : 3,129,468
288 : 3,122,794
3,131,438
3,133,320
3,135,025
295 : 3,124,845

Class 20

.5 : 3,124,846
.5 : 3,137,899
1 : 3,120,682
3,128,508
3,133,321
3,148,417
3,156,017
.126 3,117,350
.126 3,142,871
.126 3,157,916
2 : RE.25,690
3,118,186
3,118,187
3,119,153
3,137,041
3,138,828
3,146,497
3,152,366
3,156,018
3.5 : 3,147,516
4 : 3,119,154
3,120,031
3,121,259
3,124,847
3,125,785
3,127,639
3,133,322
3,135,026
3,140,515
3,146,498
3,151,364
3,151,365
3,159,882
11 : 3,118,188
3,119,155
3,119,156
3,128,509
3,130,455
3,141,204
3,141,205
12 : 3,119,157
15 : 3,140,516
3,141,206
3,146,499
3,160,925
3,161,922
16 : 3,120,032
3,123,867
3,124,848
3,136,007
3,137,042
3,138,829
3,142,095
3,146,500
16 : 3,156,019
3,156,954
3,158,908
19 : 3,118,189
3,120,033
3,120,034
3,120,683
3,122,795
3,138,830
3,141,207
3,142,096
3,143,773
3,154,819
3,156,020
22 : 3,121,260
23 : 3,129,469
3,138,831
35 : 3,121,261
3,121,262
3,121,263
3,121,264
3,122,796
3,137,900
3,153,817
38 : 3,154,820
39 : 3,134,146
40 : 3,116,519
3,123,868
3,137,901
.5 : 3,152,367
.5 : 3,154,821
42 : 3,117,351
3,118,190
3,126,588
3,133,323
3,146,501
3,153,818
3,154,822
3,156,955
3,157,917
49 : 3,149,380
52 : 3,129,470
3,130,456
3,130,457
3,131,439
3,133,324
3,135,027
3,144,688
3,145,433
3,150,420
3,152,368
3,156,021
3,161,923
3,162,905
.2 : 3,116,520
.2 : 3,121,922
.2 : 3,122,797
.2 : 3,124,849
.2 : 3,124,850
.2 : 3,128,510
.2 : 3,147,517
.2 : 3,153,264
.2 : 3,159,883
.4 : 3,118,191
.4 : 3,121,923
.4 : 3,122,798
53 : 3,122,799
3,160,926
56 : 3,121,924
3,131,440
3,147,518
.1 : 3,146,502
.1 : 3,158,909
.4 : 3,123,869
.4 : 3,144,689
.4 : 3,150,421
.4 : 3,157,918
.4 : 3,159,884
.5 : 3,129,471
.5 : 3,152,369
.5 : 3,153,819
57.5 : 3,138,832
.5 : 3,148,418
.5 : 3,149,381
.5 : 3,152,370
.5 : 3,161,924
62 : 3,120,035
3,121,265
3,130,458
3,137,043
3,156,956
63 : 3,120,036
64 : RE.25,590
3,118,192
3,123,870
3,142,872
3,148,419
67 : 3,118,193
3,131,441
68 : 3,139,652
3,150,422
69 : 3,117,352
3,119,158
3,124,851
69 : 3,124,852
3,126,589
3,126,590
3,126,591
3,127,640
3,132,386
3,138,833
3,140,517
3,142,097
3,142,098
3,145,434
3,150,423
3,153,265
3,154,823
3,159,885
3,159,886
3,161,925
71 : 3,160,927
74 : 3,133,325
3,138,834
3,161,926
3,162,906
78.3 : 3,128,511
.3 : 3,156,957
91 : 3,131,442
92 : 3,117,353
3,129,472
3,137,044
3,145,435
3,156,022
100 : 3,133,326
101 : 3,118,194
3,124,853

Class 21

2.5 : 3,150,921
.7 : 3,120,425
.7 : 3,130,002
.7 : 3,133,787
57 : 3,139,323
58 : 3,117,832
3,136,598
3,163,494
60.5 : 3,127,235
.5 : 3,146,059
.5 : 3,146,060
.5 : 3,147,067
61 : 3,121,608
73 : 3,118,726
74 : 3,116,969
3,134,637
3,151,929
77 : 3,119,649
83 : 3,126,247
98 : 3,147,068
117 : 3,119,650
119 : 3,140,147
122 : 3,125,407
3,138,432

Class 22

9 : 3,117,354
3,158,910
13 : 3,160,928
14 : 3,126,592
20 : 3,123,871
3,134,147
3,147,519
3,152,371
36 : 3,137,902
3,143,774
3,150,424
40 : 3,143,775
42 : 3,116,521
3,123,873
3,156,958
46 : 3,134,148
57 : 3,121,925
3,129,473
3,139,653
3,157,919
.2 : 3,118,195
.2 : 3,127,642
.2 : 3,129,474
.2 : 3,134,149
.2 : 3,134,150
.2 : 3,136,008
.2 : 3,143,776
.2 : 3,145,436
.2 : 3,148,420
.2 : 3,151,366
.2 : 3,153,820
.2 : 3,153,821
.2 : 3,157,920
.2 : 3,157,921
.2 : 3,162,907
.3 : 3,120,037
.4 : 3,123,874
.4 : 3,142,873
.5 : 3,130,459
58 : 3,151,367
60 : 3,152,372
61 : 3,139,654
64 : 3,118,196
65 : 3,121,266
3,127,643
67 : 3,120,038
68 : 3,117,355
3,120,039
3,121,926
3,127,644
3,137,903
3,137,904
3,160,929
70 : 3,123,875
71 : 3,156,959
3,160,930
73 : 3,139,655
3,157,922
3,162,908
77 : 3,122,800
79 : 3,153,822
3,157,923
80 : 3,130,460
82 : 3,127,645
3,162,909
84 : 3,124,854
85 : 3,126,593
3,146,503
3,153,266
89 : 3,136,009
3,136,010
3,143,777
3,151,368
3,154,824
3,161,927
90 : 3,126,594
94 : 3,137,905
95 : 3,123,876
.5 : 3,150,425
.7 : 3,162,910
101 : 3,162,911
113 : 3,122,801
3,136,011
116 : 3,127,646
3,161,928
129 : 3,116,522
131 : 3,138,835
134 : 3,139,656
3,162,912
136 : 3,116,523
139 : 3,116,524
3,158,911
141 : 3,123,877
144 : 3,125,786
147 : 3,136,012
3,142,874
3,144,690
3,145,437
3,148,421
3,153,823
3,159,887
3,162,913
148 : 3,146,504
150 : 3,137,045
157 : 3,121,267
164 : 3,149,382
184 : 3,135,028
185 : 3,147,520
192 : 3,120,684
3,132,387
3,153,824
193 : RE.25,571
3,123,878
3,131,443
3,135,029
3,137,046
3,138,836
3,139,657
3,145,438
3,151,369
3,153,825
194 : 3,121,268
3,125,787
3,126,595
3,140,518
3,160,931
196 : 3,131,999
3,132,388
3,142,875
3,148,422
3,156,023
3,157,924
3,158,912
200 : 3,118,197
3,132,389
3,139,658
.1 : 3,124,855
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.1 : 3,147,521
202 : 3,118,198
3,126,596
203 : 3,130,461
3,136,013
3,138,837
3,149,383
204 : 3,118,199
3,127,641
3,152,373
212 : 3,125,788
214 : 3,142,099
215 : 3,119,159
3,126,597
3,158,913
216 : 3,117,356
.5 : 3,121,269
.5 : 3,153,826
.5 : 3,157,926
447 : 3,127,356

Class 23

1 : 3,145,076
3,153,566
3,155,454
3,159,450
3,162,506
3,162,507
2 : 3,116,970
3,118,727
3,120,993
3,124,416
3,125,408
3,139,324
3,140,148
3,144,301
3,146,061
3,147,069
3,149,907
3,150,922
3,150,923
3 : 3,161,461
4 : 3,141,729
14 : 3,118,728
3,119,651
3,119,652
3,124,417
3,126,248
3,131,992
3,134,638
3,135,580
3,135,581
3,138,433
3,139,325
3,140,149
3,140,150
3,143,391
3,144,302
3,145,077
3,146,062
3,147,070
3,147,071
3,148,938
3,148,939
3,148,940
3,151,930
3,152,861
3,153,567
3,158,437
3,159,451
3,162,508
.5 : 3,117,836
.5 : 3,119,653
.5 : 3,120,994
.5 : 3,123,435
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.5 : 3,125,409
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.5 : 3,129,055
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.5 : 3,142,533
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.5 : 3,148,941
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.5 : 3,150,924
.5 : 3,151,931
.5 : 3,151,932
.5 : 3,152,862
.5 : 3,153,568
.5 : 3,153,569
.5 : 3,154,375
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14.5 : 3,157,462
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.5 : 3,160,471
.5 : 3,161,462
.5 : 3,161,463
.5 : 3,162,509
15 : 3,148,022
17 : 3,139,326
3,153,570
18 : 3,131,993
3,132,920
3,159,453
19 : 3,117,833
3,151,933
21 : 3,133,788
22 : 3,153,571
3,158,438
23 : 3,127,236
3,131,994
25 : 3,151,934
42 : 3,147,072
48 : 3,133,789
3,161,464
3,163,495
50 : 3,129,056
3,133,790
3,149,910
3,150,925
51 : RE.25,588
3,126,252
52 : 3,116,971
56 : 3,137,541
59 : 3,119,654
60 : 3,131,995
63 : 3,119,655
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3,131,996
3,134,639
3,158,439
64 : 3,141,730
3,158,440
66 : 3,120,426
3,126,253
3,150,926
3,150,927
70 : 3,123,437
3,131,023
3,148,942
85 : 3,128,149
3,131,997
3,134,640
3,148,943
3,151,935
3,154,380
3,157,464
86 : 3,134,641
87 : 3,117,834
3,118,729
3,119,656
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3,120,995
3,122,413
3,128,150
3,130,003
3,130,004
3,130,005
3,131,998
3,134,642
3,144,303
3,146,065
3,146,066
3,147,073
3,149,911
3,150,928
3,153,572
3,156,527
88 : 3,123,438
3,128,151
3,132,921
3,132,922
89 : 3,140,915
3,148,023
3,152,863
92 : 3,148,024
93 : 3,152,864
97 : 3,121,609
3,148,944
98 : 3,161,465
100 : 3,121,610
3,123,439
3,123,440
101 : 3,153,573
3,155,456
3,157,465
102 : 3,119,658
3,122,414
3,141,731
103 : 3,117,835
3,148,945
3,148,946
3,157,466
105 : 3,125,411
3,126,254
3,141,732
106 : 3,127,238
3,160,472
107 : 3,125,412
3,129,057
3,153,574
108 : 3,142,534
3,151,937
109 : 3,151,936
3,151,938
3,161,466
110 : 3,130,006
3,131,024
3,154,381
112 : 3,119,659
3,119,660
113 : 3,123,441
3,130,007
117 : 3,149,912
119 : 3,126,255
122 : 3,132,923
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123 : 3,141,733
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125 : 3,148,947
126 : 3,153,575
134 : 3,125,413
135 : 3,131,025
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137 : 3,129,058
139 : 3,149,913
140 : 3,119,661
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3,144,304
141 : 3,120,996
142 : 3,136,601
143 : 3,124,418
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150 : 3,117,837
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153 : 3,128,152
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154 : 3,131,027
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157 : 3,134,643
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162 : 3,136,602
163 : 3,149,915
165 : 3,118,730
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166 : 3,125,414
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167 : 3,148,025
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168 : 3,136,605
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172 : 3,145,080
174 : 3,116,972
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175 : 3,119,663
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177 : 3,123,442
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178 : 3,141,735
179 : 3,149,916
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184 : 3,119,664
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3,141,736

184 : 3,147,075
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3,156,528
187 : 3,119,665
190 : 3,145,082
191 : 3,120,998
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3,144,305
3,150,929
192 : 3,141,737
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196 : 3,149,918
200 : 3,132,000
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201 : 3,116,974
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202 : 3,118,732
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203 : 3,124,420
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204 : 3,117,840
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205 : 3,119,666
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3,130,011
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3,145,083
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3,152,869
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206 : 3,146,069
207 : 3,118,733
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.5 : 3,122,417
208 : 3,158,442
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3,161,471
3,161,472
3,161,473
209 : 3,127,244
3,130,012
3,141,739
3,158,443
3,160,476
.1 : 3,124,422
.1 : 3,125,418
.1 : 3,138,434
.1 : 3,138,435
.1 : 3,142,539
.4 : 3,116,975
.4 : 3,122,418
.4 : 3,122,419
.4 : 3,132,926
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.4 : 3,148,949
.4 : 3,151,942
.8 : 3,127,245
210 : 3,148,031
211 : 3,133,793
212 : 3,119,667
3,129,060
3,147,080
3,163,496
213 : 3,150,931
215 : 3,131,028
216 : 3,116,976
3,145,084
3,159,455
219 : 3,135,584
3,152,870
220 : 3,140,153
3,145,085
221 : 3,121,611
3,151,943
222 : 3,134,647

222 : 3,134,648
3,136,607
223 : 3,118,734
3,124,423
.5 : 3,128,154
.5 : 3,129,061
.5 : 3,130,013
.5 : 3,161,474
224 : 3,148,950
225 : 3,144,307
3,154,383
226 : 3,149,920
230 : 3,116,977
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252 : 3,116,978
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253 : 3,116,979
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3,158,445
3,160,477
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254 : 3,117,843
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3,123,444
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3,158,446
255 : 3,129,062
3,153,577
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.1 : 3,136,608
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.1 : 3,140,921
.1 : 3,146,071
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.5 : 3,150,933
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262 : 3,124,424
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267 : 3,129,064
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270 : 3,116,980
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.5 : 3,126,258
.5 : 3,150,934
271 : 3,123,445
272.6 : 3,145,087
273 : 3,137,544
3,144,308
3,154,384
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3,160,478
277 : 3,119,671
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277 : 3,140,922
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280 : 3,149,923
281 : 3,142,541
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283 : 3,156,534
284 : 3,128,155
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3,154,385
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285 : 3,118,739
3,156,535
286 : 3,156,536
288 : 3,127,247
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3,131,032
3,140,156
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292 : 3,121,618
293 : 3,124,426
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301 : 3,121,619
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306 : 3,121,620
309 : 3,122,421
3,154,390
310 : 3,133,794
3,140,924
3,143,395
3,155,459
311 : 3,122,422
3,129,067
312 : 3,128,156
3,130,016
3,151,945
3,151,946

Class 24

1 : 3,144,691
3 : 3,126,598
3,135,030
3,142,876
3,148,426
3,157,927
5 : 3,142,100
6 : 3,134,151
11 : 3,127,647
3,128,514
3,156,960
13 : 3,157,925
16 : 3,118,200
3,118,201
3,119,160
3,127,648
3,130,462
3,147,522
3,147,523
3,151,370
20 : 3,137,047
3,141,208
23 : 3,159,888
27 : 3,131,444
3,132,396
30.5 : 3,128,515
.5 : 3,132,390

30.5 : 3,138,838
.5 : 3,140,519
.5 : 3,141,221
33 : 3,153,827
41 : 3,156,024
49 : 3,116,525
3,129,475
56 : 3,151,371
66 : 3,118,202
3,122,802
3,125,789
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67 : 3,120,685
3,150,426
68 : 3,118,203
3,127,650
3,128,516
3,142,877
3,149,384
70 : 3,132,392
71 : 3,132,393
73 : 3,116,526
3,118,204
3,120,686
3,122,803
3,122,804
3,124,856
3,127,651
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74 : 3,121,270
77 : 3,120,040
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81 : 3,116,527
3,120,041
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3,133,327
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84 : 3,118,205
3,156,961
86 : 3,158,914
87 : 3,120,687
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3,126,601
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3,134,152
90 : 3,141,211
94 : 3,137,050
96 : 3,142,878
97 : 3,144,692
3,160,932
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100 : 3,119,161
101 : 3,135,032
3,149,385
113 : 3,126,602
117 : 3,138,839
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119 : 3,122,805
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122.3 : 3,135,033
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123 : 3,120,042
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126 : 3,117,357
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138 : 3,141,212
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141 : 3,121,271
150 : 3,157,928
153 : 3,141,213
157 : 3,118,206
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158 : 3,142,101

158 : 3,144,693
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161 : 3,121,927
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162 : 3,136,015
163 : 3,150,427
165 : 3,127,652
170 : 3,162,914
191 : 3,134,153
194 : 3,152,374
196 : 3,121,272
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197 : 3,131,450
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.16: 3,147,529
.17: 3,132,399
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207 : 3,122,810
208 : 3,130,464
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211 : 3,116,528
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3,152,375
213 : 3,144,694
3,144,695
214 : 3,118,207
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216 : 3,152,376
217 : 3,156,962
221 : 3,121,273
3,123,880
3,136,017
222 : 3,123,881
223 : 3,140,522
225 : 3,120,045
3,121,931
3,136,018
3,159,891
226 : 3,162,919
230 : 3,118,208
3,127,655
3,128,519
3,130,466
3,130,467
3,131,451
3,133,329
3,133,330
3,133,331
3,134,154

230 : 3,137,907
3,139,661
3,142,102
3,142,103
3,144,696
3,145,442
3,147,530
3,148,428
3,152,377
3,153,270
3,156,025
3,159,892
.5 : 3,131,452
.5 : 3,153,832
239 : 3,145,443
241 : 3,121,274
3,121,275
3,121,276
3,126,603
3,126,604
3,136,019
242 : 3,128,520
3,144,697
243 : 3,158,917
246 : 3,127,656
3,139,662
248 : 3,120,046
3,136,020
3,137,052
249 : 3,156,963
3,159,893
250 : 3,121,932
3,151,372
252 : 3,141,218
3,159,894
253 : 3,119,162
255 : 3,119,163
3,152,378
257 : 3,157,930
259 : 3,132,400
261 : 3,141,219
3,144,698
3,154,828
262 : 3,149,390
263 : 3,122,811
3,132,401
3,133,332
3,140,523
3,142,104
3,149,391
3,156,026
3,157,931
3,160,937
265 : 3,118,209
3,123,882
3,136,021
3,142,880
3,160,938
3,162,920
270 : 3,128,512
271 : 3,125,792
3,157,932
274 : 3,116,529
3,146,507
3,162,921
277 : 3,137,053
279 : 3,134,155
3,142,881
3,151,373
3,154,829
281 : 3,118,210
283 : 3,141,220
284 : 3,132,402

Class 25

1 : 3,119,164
3,129,481
3,148,429
3,154,830
2 : 3,139,663
3,142,105
3,154,831

Class 26

7 : 3,148,430
11 : 3,148,431
3,157,933
14 : 3,146,508
17 : 3,130,468
30 : 3,119,165
3,141,222
3,150,428
3,160,939
3,161,934
32 : 3,123,883
3,145,444
37 : 3,161,935
38 : 3,159,895
39 : 3,124,857
3,159,896
3,161,936
41 : 3,123,872
3,127,657
3,128,521
3,128,522

41 : 3,128,523
3,129,482
3,130,469
3,143,780
3,143,781
3,143,782
3,149,392
3,153,833
3,153,834
3,159,897
43 : 3,122,812
3,138,843
77 : 3,134,156
92 : 3,129,483
118 : 3,117,358
3,118,211
3,122,813
3,123,884
3,123,885
3,126,605
3,132,403
3,132,404
3,134,157
3,136,022
3,136,023
3,143,783
3,144,699
3,144,700
3,146,509
3,147,531
3,148,432
3,150,429
3,159,898
3,159,899
3,159,900
119 : 3,133,333
3,161,937
120 : 3,142,106
3,151,374
121 : 3,116,530
3,158,919
3,161,938
124 : 3,136,024
3,142,882
126 : 3,123,886
3,141,223
128 : 3,146,510
3,148,433
3,149,393
3,157,934
131 : 3,121,277
3,123,887
3,124,858
3,128,524
3,128,525
3,131,453
3,132,405
3,137,908
3,137,909
3,140,524
3,141,224
3,142,883
3,144,701
3,150,430
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3,154,832
3,154,833
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.5 : 3,121,933
.5 : 3,130,470
.5 : 3,130,471
.5 : 3,148,434
.5 : 3,162,922
135 : 3,119,166
142 : 3,122,814
3,135,037
3,142,884
153 : 3,137,910
154 : 3,120,047

Class 26

2 : 3,138,844
3 : 3,134,158
15 : 3,119,167
3,130,472
17 : 3,129,484
28 : 3,137,054
29 : 3,153,836
51.3 : 3,156,964
.4 : 3,146,511
54 : 3,142,107
55 : 3,119,168
3,126,606
57 : 3,147,532
3,150,431
3,150,432
3,150,433
61 : 3,118,212
3,142,108
62 : 3,120,688
63 : 3,157,935

Class 27

7 : 3,159,901
12 : 3,145,445
16 : 3,151,375
19 : Re.25,545
3,157,936
3,162,923
21 : 3,121,934
3,154,834
27 : 3,133,334

Class 28

1 : 3,116,531
3,116,532
3,118,213
3,120,048
3,120,689
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3,121,935
3,123,888
3,125,793
3,129,485
3,137,055
3,137,911
3,137,912
3,139,664
3,140,525
3,146,512
3,147,533
3,152,379
3,153,271
3,153,272
3,153,837
3,154,835
3,156,027
3,160,941
3,162,924
4 : 3,116,533
3,116,534
3,117,359
3,122,815
3,129,486
3,132,406
3,150,434
14 : 3,148,435
18 : 3,128,526
19 : 3,137,913
3,161,940
21 : 3,123,889
3,135,038
32 : 3,117,360
3,160,942
43 : 3,136,025
46 : 3,121,936
49 : 3,120,691
51 : 3,123,890
58 : 3,126,607
59.5 : 3,124,859
62 : 3,117,361
64 : 3,132,407
3,149,394
3,153,273
3,154,836
67 : 3,140,526
71.3 : 3,123,891
.3 : 3,133,335
72 : 3,120,049
3,120,692
3,122,816
3,127,658
3,128,527
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3,142,885
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3,152,381
3,153,838
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3,156,965
.2 : 3,123,892
.3 : 3,152,382
.5 : 3,153,274
.5 : 3,161,941
.6 : 3,120,050
74 : 3,119,169
75 : 3,126,608
3,129,487
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3,137,056
3,142,109
76 : 3,120,051
3,121,278
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3,128,528
3,150,435
3,159,902

Class 29

1.1 : 3,159,903
.21: 3,137,057
.22: 3,125,794
.32: 3,137,914
2.12: 3,161,942
6 : 3,129,488
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3,146,513
.2 : 3,161,943
.2 : 3,162,925

Class 28

10 : 3,118,214
18 : 3,123,893
19 : 3,150,436
3,152,383
21.1 : 3,129,489
23.5 : 3,137,915
25.1 : 3,141,225
.1 : 3,151,377
.11: 3,120,694
.11: 3,134,160
.13: 3,156,029
.14: 3,130,473
.14: 3,132,409
.14: 3,132,410
.14: 3,136,027
.14: 3,140,528
.15: 3,160,943
.17: 3,126,610
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.18: 3,152,384
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.42: 3,117,365
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26 : Re.25,583
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33 : 3,149,401
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35.5 : 3,137,916
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78 : Re.25,582
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81 : 3,145,450
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91.4 : 3,146,517
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156.4 : 3,139,670
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.63: 3,133,341
.7 : Re.25,560
.7 : 3,122,822
.7 : 3,124,869
.7 : 3,149,410
.8 : 3,120,697
.8 : 3,122,823
.8 : 3,130,480
.8 : 3,130,481
.8 : 3,131,461
.8 : 3,136,035
.8 : 3,147,539
.8 : 3,147,541
.8 : 3,153,842
.8 : 3,156,970
157 : 3,123,900
3,127,667
3,130,482
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3,136,036
3,141,234
3,148,440
3,150,442
3,156,035
.3 : 3,116,541
.3 : 3,121,940
.3 : 3,122,824
.3 : 3,134,166
.3 : 3,136,037
.3 : 3,136,038
.3 : 3,137,926
.3 : 3,140,532
.3 : 3,145,456
.3 : 3,148,441
.3 : 3,148,442
.3 : 3,153,843
159 : 3,128,539
3,144,705
.01: 3,117,369
.01: 3,129,496
.01: 3,145,457
160.6 : 3,154,841
163.5 : 3,116,542
173 : 3,153,844
180 : 3,129,068
3,133,795
3,147,086
3,149,927
3,151,947
182 : 3,120,698
3,127,668
3,128,540
3,138,851
3,141,235
3,142,892
3,142,893
3,143,788
3,151,386
.3 : 3,139,671
.5 : 3,120,699
.5 : 3,128,541
.5 : 3,129,497
.5 : 3,137,927
.5 : 3,137,928
.5 : 3,139,672
.5 : 3,142,894
.5 : 3,143,789
.5 : 3,145,458
.5 : 3,147,543
.5 : 3,150,443
.5 : 3,152,389
.5 : 3,159,908
.5 : 3,161,948
.5 : 3,161,949
.7 : 3,147,542
.8 : 3,136,039
.8 : 3,149,411
183 : 3,123,446
3,124,427
3,136,610
.5 : 3,116,981
.5 : 3,124,428
.5 : 3,125,421
.5 : 3,129,069
.5 : 3,132,927
.5 : 3,135,586
.5 : 3,148,952
.5 : 3,155,460
.5 : 3,157,473
184 : 3,140,926
3,154,391
3,161,477
187 : 3,157,474
187.5 : 3,122,423
.5 : 3,150,936
190 : 3,160,479
191 : 3,148,953
3,150,937
3,155,461
.2 : 3,117,845
.2 : 3,147,087
.2 : 3,161,478
.2 : 3,163,499
.6 : 3,159,460
192 : 3,162,511
193 : 3,140,927
.5 : 3,118,740
194 : 3,141,744
3,147,088
3,148,038
3,150,938
3,153,581
3,156,539
3,163,500
195 : 3,117,846
3,122,424
3,129,070
3,152,871
3,159,461
3,159,462
3,160,480
3,160,481
196 : 3,123,447
3,159,463
.1 : 3,148,954
.1 : 3,163,501
.5 : 3,149,928
197.5 : 3,133,796
198 : 3,132,928
3,147,089
3,150,940
199 : 3,162,512
200 : 3,118,218
3,119,173
3,121,280
3,129,498
3,131,463
3,137,060
3,153,845
3,156,971
201 : 3,116,543
3,135,041
202 : 3,120,700
3,125,800
3,140,533
3,149,412
203 : 3,121,281
3,122,825
3,122,826
3,127,669
3,130,484
3,130,485
3,131,464
3,134,167
3,135,042
403 : 3,116,545
3,136,040
3,136,041
3,136,042
3,136,043
3,137,061
3,137,929
3,139,673
3,143,790
3,143,791
3,144,706
3,144,707
3,151,387
3,151,388
3,151,389
3,152,390
3,156,036
3,162,935
3,162,936
204 : 3,137,930
205 : 3,129,499
3,130,486
3,131,465
3,137,931
3,146,520
3,156,037
206 : 3,117,370
3,121,282
3,137,062
3,160,947
208 : 3,116,544
3,118,219
3,138,852
3,138,853
3,139,674
208 : 3,142,895
3,143,792
210 : 3,145,459
211 : 3,126,621
3,137,932
3,138,854
3,162,937
212 : 3,134,168
213 : 3,120,701
227 : 3,128,542
3,162,938
234 : 3,156,038
235 : 3,119,174
3,132,414
3,149,413
237 : 3,137,063
239 : 3,118,220
240 : Re.25,602
3,119,175
3,139,675
3,148,443
3,154,842
.5 : 3,146,521
241 : 3,126,622
3,142,896
3,145,460
3,157,941
249 : 3,138,855
252 : 3,121,941
3,144,708
254 : 3,152,391
256 : 3,124,870
3,129,500
3,139,676
3,146,522
259 : 3,133,342
3,142,897
263 : 3,123,901
3,142,113
269 : 3,129,501
3,131,466
270 : 3,121,942
3,135,043
3,137,064
3,142,898
271 : 3,123,902
275 : 3,142,899
278 : 3,137,065
3,149,414
283 : 3,162,939
400 : 3,119,176
3,153,846
3,153,847
401 : 3,119,177
3,132,415
3,133,343
3,133,344
3,136,044
3,137,933
3,142,900
3,146,523
3,147,544
3,156,972
3,159,909
402 : 3,142,114
3,145,461
403 : 3,116,545
3,136,045
407 : 3,120,053
3,123,903
3,140,534
3,146,524
3,151,390
408 : 3,127,670
3,128,543
410 : 3,124,871
3,136,046
3,154,843
3,160,948
412 : 3,121,943
413 : 3,124,872
3,144,709
416 : 3,124,873
3,142,115
417 : 3,119,178
3,123,904
3,136,047
3,136,048
3,137,934
3,143,793
3,145,462
3,159,910
420 : 3,128,544
3,153,279
3,154,844
.5 : 3,118,221
.5 : 3,150,444
421 : 3,121,944
3,125,801
3,126,623
3,131,467

421 : 3,136,049
3,140,535
3,141,236
3,147,545
3,153,848
3,156,039
3,156,973
3,160,949
3,162,940
423 : 3,122,827
3,122,828
3,127,671
3,135,044
3,135,045
3,138,856
3,138,857
3,156,974
3,160,950
424 : 3,130,487
3,135,046
3,147,546
3,153,278
427 : 3,125,802
428 : 3,121,945
3,130,488
429 : 3,123,905
3,132,416
3,138,858
3,151,391
432 : 3,130,489
3,130,490
3,157,942
433 : 3,123,906
3,132,417
3,133,345
434 : 3,116,546
3,121,946
436 : 3,122,829
3,131,468
441 : 3,162,941
447 : 3,121,947
450 : 3,117,371
3,126,624
3,127,672
3,127,673
3,137,935
3,138,859
3,153,849
451 : 3,139,677
3,145,463
452 : 3,156,040
454 : 3,143,794
455 : Re.25,704
3,123,907
3,148,444
3,162,942
458 : 3,124,874
460 : 3,116,547
464 : 3,145,464
470 : 3,117,372
3,129,502
3,130,491
3,136,050
3,153,850
3,154,845
.1 : 3,139,678
.1 : 3,158,928
.3 : 3,121,948
.3 : 3,126,625
.3 : 3,134,169
.3 : 3,144,710
.5 : 3,131,469
.5 : 3,154,846
.7 : Re.25,615
.9 : 3,133,346
471.1 : 3,121,283
.1 : 3,123,908
.1 : 3,131,470
.1 : 3,132,418
.1 : 3,138,860
.1 : 3,139,679
.1 : 3,156,041
.1 : 3,156,975
.1 : 3,159,911
.5 : 3,116,548
.5 : 3,116,549
.5 : 3,121,949
.5 : 3,136,051
.5 : 3,141,227
.5 : 3,150,445
.5 : 3,156,042
.5 : 3,156,976
.5 : 3,161,950
472.7 : 3,128,545
.9 : 3,139,680
473.1 : 3,132,419
.1 : 3,140,536
.3 : 3,153,280
474.3 : 3,139,681
.3 : 3,140,537
.3 : 3,160,951

474.4 : 3,137,066
.4 : 3,158,929
475 : 3,133,347
3,137,936
3,138,861
3,150,446
3,156,977
477.7 : 3,127,674
480 : 3,142,116
3,149,415
481 : 3,145,465
482 : 3,125,803
3,140,538
486 : 3,137,937
487 : 3,125,804
3,138,862
488 : 3,145,466
491 : 3,135,047
492 : 3,125,805
494 : 3,133,348
3,154,847
495 : 3,119,179
3,128,546
3,141,237
3,156,978
497.5 : 3,140,539
498 : 3,141,238
510 : 3,158,930
512 : 3,140,540
514 : 3,118,222
516 : 3,154,848
517 : 3,152,392
520 : 3,125,806
521 : 3,131,471
522 : 3,158,931
525 : 3,142,901
3,145,467
527 : 3,120,702
3,128,547
3,138,863
528 : 3,118,223
3,118,224
3,121,950
3,129,503
3,131,472
3,144,712
3,146,525
3,147,547
3,154,849
529 : 3,118,225
3,128,548
3,129,504
3,144,711
3,160,952
531 : 3,123,909
3,126,626
534 : 3,124,876
3,129,505
537 : 3,138,864
541 : 3,157,943
542 : 3,122,830
543 : 3,136,052
3,143,795
544 : 3,132,420
3,136,053
545 : 3,123,910
547 : 3,120,054
3,136,054
549 : 3,137,067
550 : 3,152,393
551 : 3,124,877
552 : 3,145,468
.2 : 3,139,682
.2 : 3,162,943
.3 : 3,148,445
.3 : 3,156,043
556 : 3,122,831
3,131,473
3,149,416
557 : 3,148,446
558 : 3,137,938
560 : 3,152,394
564 : 3,146,526
566 : 3,142,117
568 : 3,129,506
3,133,349
3,161,951

Class 30

1 : 3,118,226
2 : 3,135,048
3,135,049
3,137,068
3 : 3,117,373
4 : 3,121,284
3,121,285
3,126,627
3,130,492
3,153,852
3,157,947
3,157,948

4 : 3,156,044
3,159,912
3,161,952
6.1 : 3,117,374
.4 : 3,156,979
8 : 3,152,395
10 : 3,132,421
15.5 : 3,129,509
16 : 3,142,903
3,153,851
24 : 3,149,417
28 : 3,154,850
34 : 3,116,550
3,121,286
3,125,807
3,127,675
3,132,422
3,137,939
3,138,865
3,141,239
3,143,796
.2 : 3,148,447
40 : 3,137,940
41 : 3,139,683
.5 : 3,128,549
.5 : 3,154,851
43 : 3,116,551
3,119,180
3,125,808
3,128,550
3,129,507
3,136,055
3,138,866
3,141,240
3,142,118
.3 : 3,156,045
.5 : 3,143,797
.6 : 3,157,944
.6 : 3,158,932
.92: 3,144,714
47 : 3,136,056
49 : 3,127,676
51 : 3,154,852
60.5 : 3,116,552
.5 : 3,116,553
.5 : 3,162,944
62 : 3,140,541
3,140,542
63 : 3,128,551
73 : 3,129,508
91 : 3,116,554
3,153,281
3,162,945
96 : 3,117,375
3,150,447
101 : 3,136,057
3,157,945
3,162,946
102 : 3,118,227
3,135,050
3,145,469
114 : 3,132,423
121 : 3,122,832
123 : 3,138,867
134 : 3,126,628
149 : 3,121,951
151 : 3,126,629
164.9 : 3,120,055
.9 : 3,133,350
.9 : 3,152,396
.95: 3,138,868
166 : 3,143,798
169 : 3,157,946
171 : 3,162,947
172 : 3,123,911
180 : 3,117,376
187 : 3,138,869
200 : 3,145,470
201 : 3,149,418
202 : 3,161,953
206 : 3,138,870
210 : 3,132,424
3,136,058
224 : 3,161,954
225 : 3,161,955
228 : 3,152,397
240 : 3,151,392
248 : 3,137,069
252 : 3,159,913
253 : 3,156,980
254 : 3,146,527
259 : 3,143,799
261 : 3,143,800
272 : 3,120,056
3,147,548
3,147,549
3,152,398
3,152,399
3,153,852
273 : 3,157,947
3,157,948

275 : 3,143,801
276 : 3,148,448
3,158,933
278 : 3,142,119
279 : 3,160,953
289 : 3,137,070
294 : 3,118,228
3,153,853
3,160,954
316 : 3,130,493
322 : 3,138,871
331 : 3,121,952
358 : 3,126,630
361 : 3,122,833
362 : 3,123,912
366 : 3,147,550

Class 31

6 : 3,119,181
8 : 3,120,703
13 : 3,142,904
21 : 3,144,715
24 : 3,142,905
33 : 3,134,170
44 : 3,154,853
45 : 3,118,229

Class 32

6 : 3,117,377
8 : 3,153,855
12 : 3,120,704
3,140,543
14 : 3,119,182
3,119,183
3,121,953
3,123,913
3,127,677
3,128,552
3,128,553
3,131,474
3,132,425
3,134,171
3,137,941
3,138,872
3,157,949
3,158,934
3,162,948
17 : 3,151,393
19 : 3,118,230
3,126,631
3,129,510
3,131,475
3,143,802
3,153,282
3,161,956
20 : 3,130,494
3,159,914
22 : 3,143,803
26 : 3,124,878
3,133,351
27 : 3,120,705
3,120,706
3,125,809
3,132,426
3,134,172
3,147,551
28 : 3,129,511
3,136,059
32 : 3,123,914
3,126,632
3,159,915
3,160,955
33 : 3,124,879
3,138,873
3,148,449
35 : 3,151,394
40 : 3,153,283
63 : 3,140,544
3,145,472
3,145,473
3,147,552
3,152,400
67 : 3,150,448
3,152,401
69 : 3,118,231
3,137,071
3,151,395
3,158,935

Class 33

1 : 3,121,954
3,121,955
3,126,633
3,127,678
3,128,554
3,130,495
3,133,352
3,136,060

1 : 3,137,942
3,138,874
3,154,854
3,161,957
2 : 3,137,943
3 : 3,120,057
3,126,634
3,148,450
9 : 3,122,834
11 : 3,120,058
3,162,949
12 : 3,156,046
17 : 3,134,173
18 : 3,126,635
3,129,512
3,138,875
3,143,804
3,145,474
3,148,451
3,148,452
3,154,855
3,158,936
20 : 3,116,555
3,161,958
21 : 3,130,496
23 : 3,130,497
3,130,498
24 : 3,127,679
25 : 3,119,184
3,137,944
3,160,956
26 : 3,135,051
27 : 3,120,059
3,128,555
3,136,061
3,143,807
3,156,981
30 : 3,137,945
3,154,856
32 : 3,116,556
3,126,636
3,127,680
3,130,499
41 : 3,127,681
3,131,476
3,145,475
3,157,950
42 : 3,145,471
46 : 3,116,557
3,119,185
3,127,682
3,135,052
3,136,062
3,136,063
3,147,553
3,159,916
3,159,917
3,162,950
49 : 3,135,053
50 : 3,123,915
3,131,477
3,134,174
3,153,856
51 : 3,133,353
54 : 3,161,959
56 : 3,123,916
3,161,960
62 : 3,158,937
64 : 3,153,857
72 : 3,162,951
74 : 3,117,378
3,143,805
3,151,396
75 : 3,136,064
76 : 3,116,558
3,116,559
3,120,060
3,137,072
3,145,476
3,153,858
77 : 3,128,556
3,157,951
3,159,918
79 : 3,131,478
3,153,284
3,159,919
80 : 3,122,835
3,133,354
85 : 3,119,186
3,127,683
3,127,684
3,130,500
3,148,453
3,150,449
3,153,285
86 : 3,122,836
3,136,065
3,156,982
87 : 3,126,637
91 : 3,143,806
93 : 3,154,857

94 : 3,153,859
97 : 3,141,241
107 : 3,144,716
111 : 3,142,906
121 : 3,121,956
125 : 3,142,120
3,154,858
3,156,983
3,162,952
126 : 3,149,419
.4 : 3,129,513
.6 : 3,128,557
.7 : 3,147,554
128 : 3,158,938
129 : 3,131,479
3,135,054
3,136,066
3,159,920
137 : 3,120,707
3,121,957
3,131,480
3,136,067
3,145,477
138 : 3,144,717
141 : 3,134,175
3,151,397
3,157,952
3,159,921
142 : 3,137,073
143 : 3,124,880
3,126,638
3,126,639
3,138,876
3,139,684
3,142,121
3,151,398
3,154,859
145 : 3,126,640
147 : 3,119,187
3,140,545
3,142,907
3,149,420
3,151,399
3,152,402
3,159,922
148 : 3,117,380
3,140,546
3,154,860
3,158,939
3,162,954
149 : 3,129,514
3,130,501
3,137,946
152 : 3,131,481
153 : 3,145,478
162 : 3,136,068
163 : 3,118,232
164 : 3,131,482
3,140,547
166 : 3,120,061
168 : 3,122,837
3,153,286
3,162,955
169 : 3,120,062
3,124,881
3,128,558
3,161,962
170 : 3,123,917
3,128,559
172 : 3,122,838
3,125,810
3,126,641
3,131,483
3,133,355
3,149,421
173 : 3,160,957
174 : 3,116,560
3,119,188
3,125,811
3,126,642
3,128,560

Class 34

1 : 3,161,479
3,161,480
4 : 3,145,088
3,151,950
3,159,464
9 : 3,118,741
3,151,951
10 : 3,122,425
3,137,546
11 : 3,134,651
15 : 3,152,872
16.5 : 3,149,929
18 : 3,158,447
30 : 3,131,034
34 : 3,129,071
36 : 3,146,076
45 : 3,116,982
3,116,983

174 : 3,160,958
3,161,961
3,162,953
3,162,956
177 : 3,134,176
178 : 3,139,685
3,139,686
3,150,450
3,160,004
179.5 : 3,120,063
.5 : 3,122,839
.5 : 3,133,356
.5 : 3,150,451
.5 : 3,160,959
180 : 3,126,643
3,129,515
3,136,071
3,143,809
3,161,964
181 : 3,131,484
182 : 3,137,075
184.5 : 3,151,400
.5 : 3,158,943
185 : 3,135,056
3,148,454
187 : 3,133,357
189 : 3,116,561
3,148,455
3,149,422
3,151,401
3,153,860
3,156,984
3,162,957
190 : 3,154,861
191 : 3,137,947
3,138,877
3,162,958
192 : 3,118,233
3,145,480
3,157,953
193 : 3,137,076
194 : 3,121,958
3,126,644
3,144,719
197 : 3,150,452
199 : 3,132,427
203 : 3,161,965
.12: 3,143,810
.12: 3,160,960
.14: 3,129,516
.17: 3,116,562
.2 : 3,128,561
204 : 3,130,502
3,148,456
205 : 3,129,517
3,137,077
.5 : 3,124,882
207 : 3,116,563
3,118,234
3,122,840
3,123,918
3,146,529
3,159,924
209 : 3,117,381
3,132,428
3,159,925
210 : 3,160,961
211 : 3,138,878
214 : 3,159,926
215 : 3,120,064
3,141,242
3,151,402
3,160,962
3,161,966
222 : 3,119,189
3,142,122
223 : 3,128,562
224 : 3,122,841
226 : 3,122,842
3,146,530

Class 34—Con.

45 : 3,122,426
3,123,448
3,125,422
3,132,003
3,135,587
3,159,465
3,161,481
48 : 3,124,429
3,128,157
3,132,004
3,148,955
3,156,540
50 : 3,128,158
52 : 3,152,873
53 : 3,117,847
3,128,159
54 : 3,129,072
3,132,005
3,143,396
3,161,482
56 : 3,124,430
3,129,073
57 : 3,127,250
3,135,588
3,161,483
62 : 3,140,928
63 : 3,136,611
73 : 3,135,589
75 : 3,121,000
76 : 3,146,077
77 : 3,131,035
3,132,929
3,134,652
79 : 3,116,984
3,132,006
82 : 3,128,160
3,148,956
3,155,462
85 : 3,133,797
3,158,448
91 : 3,136,612
3,157,475
92 : 3,118,742
3,125,423
3,132,930
3,151,952
95 : 3,122,427
3,131,036
3,148,957
99 : 3,152,874
3,159,466
104 : 3,152,875
3,154,392
110 : 3,116,985
3,118,743
114 : 3,134,653
3,161,484
3,163,502
115 : 3,122,428
3,132,931
3,140,157
3,149,930
118 : 3,151,953
121 : 3,123,449
122 : 3,163,503
123 : 3,146,078
126 : 3,121,621
128 : 3,140,158
131 : 3,124,431
137 : 3,142,546
148 : 3,140,929
151 : 3,152,876
155 : 3,121,001
3,125,424
3,140,159
3,140,160
3,149,931
3,151,954
156 : 3,140,930
160 : 3,134,654
3,147,090
163 : 3,138,437
3,160,482
164 : 3,151,955
3,158,449
174 : 3,143,397
3,159,467
181 : 3,156,541
183 : 3,118,744
3,132,007
184 : 3,137,547
186 : 3,144,310
187 : 3,133,798
191 : 3,149,932
203 : 3,143,398
218 : 3,157,476
227 : 3,140,161
233 : 3,128,161
3,159,468
236 : 3,160,483
3,161,485
243 : 3,159,469

Class 35

2 : 3,156,051
3 : 3,125,812
5 : 3,136,072
3,161,967
6 : 3,128,563
3,136,073
7 : 3,126,645
3,139,687
8 : 3,134,177
3,145,481
3,147,555
9 : 3,116,564
3,117,382
3,120,708
3,121,959
3,121,960
3,122,843
3,122,844
3,123,920
3,124,883
3,125,813
3,126,646
3,131,485
3,136,074
3,137,078
3,137,079
3,137,948
3,139,688
3,139,689
3,141,243
3,141,244
3,144,720
3,146,531
3,146,532
3,148,457
3,151,403
3,152,403
3,153,861
3,153,862
3,153,863
3,154,862
3,154,863
3,157,955
3,162,959
10 : 3,146,533
.4 : 3,123,659
.4 : 3,130,253
.4 : 3,131,247
.4 : 3,131,248
.4 : 3,135,815
.4 : 3,149,195
.4 : 3,158,672
.4 : 3,159,705
11 : 3,119,190
3,154,864
12 : 3,117,383
3,122,845
3,127,685
3,131,486
3,131,487
3,135,057
3,136,075
3,141,245
3,148,458
3,161,968
13 : 3,154,865
17 : 3,152,404
18 : 3,145,482
3,156,985
3,156,986
19 : 3,123,921
3,124,884
3,142,908
3,145,483
3,152,405
3,153,854
20 : 3,121,961
24 : 3,124,885
25 : 3,120,709
3,141,246
3,143,811
26 : 3,123,919
28.3 : 3,120,065
29 : 3,122,846
3,140,549
3,140,550
3,140,551
3,145,484
30 : 3,162,960
31 : 3,127,686
3,129,518
3,131,488
3,133,358
3,136,076
3,140,552
3,147,556
32 : 3,125,814
3,138,879
33 : 3,151,404
35 : 3,118,235
3,122,847
3,126,647
3,126,648
3,134,178
3,142,909
3,146,534
3,148,459
3,156,052
3,161,969
39 : 3,131,489
3,149,423
41 : 3,137,080
46 : 3,133,359
48 : 3,116,565
3,118,236
3,126,649
3,128,564
3,137,949
3,145,485
3,148,460
53 : 3,135,058
54 : 3,147,557
56 : 3,125,815
3,144,721
3,149,424
59 : 3,120,066
61 : 3,149,425
62 : 3,148,461
66 : 3,135,059
3,149,426
3,152,406
73 : 3,117,384

Class 36

1 : 3,117,385
3,131,490
2 : 3,128,565
3,137,081
3,153,864
.5 : 3,119,191
.5 : 3,120,710
.5 : 3,125,816
.5 : 3,127,687
.5 : 3,134,179
.5 : 3,137,950
.5 : 3,138,880
.5 : 3,142,910
.5 : 3,142,911
.5 : 3,145,486
.5 : 3,154,866
.5 : 3,156,987
.5 : 3,157,954
.5 : 3,162,961
3 : 3,128,566
3,142,912
7.1 : 3,141,247
.3 : 3,122,848
.3 : 3,146,535
8.3 : 3,121,287
9 : 3,120,711
3,145,487
11 : 3,135,060
3,137,951
.5 : 3,121,962
.5 : 3,160,963
14 : 3,129,519
3,147,558
3,147,559
17 : 3,124,886
3,133,360
3,151,405
19 : 3,152,407
22 : 3,126,650
24.5 : 3,153,865
28 : 3,129,520
29 : 3,120,712
30 : 3,116,566
3,138,881
32 : 3,146,536
34 : 3,119,192
3,130,503
3,138,882
3,141,248
3,149,427
35 : 3,133,361
3,154,867
36 : 3,130,504
3,134,180
3,144,722
3,148,462
3,152,408
3,159,928
42 : 3,133,362
3,141,249
43 : 3,161,970
44 : 3,143,812
3,148,463
45 : 3,121,288
3,130,505
48 : 3,128,567
50 : 3,137,952
51 : 3,162,962
59 : 3,133,363
3,133,364
72 : 3,118,237
3,126,651
3,150,453
3,153,289
81 : 3,124,887
3,156,988

Class 37

2 : 3,129,521
3,143,813
3,159,927
8 : 3,143,814
10 : 3,149,428
12 : 3,123,922
3,125,817
41 : Re.25,702
3,126,652
3,160,964
42 : 3,125,818
3,160,965
43 : 3,131,491
3,142,913
3,143,815
45 : 3,132,429
53 : 3,121,963
54 : 3,125,819
60 : 3,160,966
61 : 3,152,409
62 : 3,153,290
67 : 3,148,464
69 : 3,146,537
71 : 3,143,816
80 : 3,146,538
86 : 3,130,506
3,133,365
92 : 3,132,430
94 : 3,131,492
97 : 3,116,567
3,157,956
104 : 3,146,539
108 : 3,126,653
116 : 3,135,061
117.5 : 3,148,465
.5 : 3,153,866
124 : 3,131,493
3,138,883
3,149,429
3,152,410
129 : 3,118,238
3,122,849
3,127,688
3,129,522
3,138,884
3,144,723
3,154,868
130 : 3,154,869
141 : 3,145,488
3,160,967
142 : 3,117,386
3,121,289
3,126,654
3,136,077
143 : 3,119,193
3,121,964
3,152,411
3,156,989
144 : 3,122,850
3,151,406
3,158,944
145 : 3,124,888
146 : 3,136,078
156 : 3,127,689
3,148,466
169 : 3,126,655
3,142,914
3,151,407
179 : 3,145,489
180 : 3,123,923
3,141,250
3,142,915
3,158,945
3,159,929
189 : 3,126,656
191 : 3,152,412
3,153,867
614.11: 3,125,121

Class 38

2 : 3,126,657
3,127,690
5 : 3,126,658
17 : 3,130,508
3,133,366
21 : 3,136,079
30 : 3,137,953
40 : 3,156,053
55 : 3,118,239
56 : 3,118,240
57 : 3,160,968
59 : 3,118,241
3,134,181
66 : 3,151,408
69 : 3,144,724
71 : 3,145,490
77 : 3,130,507
3,134,182
3,136,080
3,146,540
3,156,054
3,161,971
3,162,963
78 : 3,128,568
3,129,523
3,160,969
90 : 3,141,251
97 : 3,121,965
3,142,916
99 : 3,162,964
140 : 3,148,467
141 : 3,138,885
143 : 3,134,183
3,136,081
3,145,491
3,153,291

Class 39

1 : 3,150,454
5 : 3,134,184
76 : 3,135,062

Class 40

1.5 : 3,139,690
2 : 3,148,468
3,153,868
3,159,930
.2 : 3,160,970
5 : 3,126,659
3,148,469
10 : 3,120,067
3,131,494
3,137,954
3,162,965
11 : 3,123,924
3,133,367
12 : 3,161,972
16 : 3,117,387
19 : 3,156,055
21 : 3,130,509
3,153,869
28 : 3,140,553
3,149,430
3,159,932
.1 : 3,152,413
.3 : 3,131,497
32 : 3,151,409
34 : 3,128,569
3,152,414
37 : 3,142,917
39 : 3,153,292
61 : 3,144,725
63 : 3,134,185
3,153,293
3,156,056
64 : 3,142,918
65 : 3,148,470
68 : 3,156,057
70 : 3,122,851
77 : 3,160,971
79 : 3,123,925
3,125,820
3,139,691
3,153,870
3,159,933
3,159,934
3,160,972
81 : 3,144,726
102 : 3,136,082
3,159,931
103 : 3,145,492
106.21: 3,120,068
.31: 3,159,935
.32: 3,153,871
.41: 3,142,919
.53: 3,159,936
113 : 3,142,123
120 : 3,130,510
3,152,415
122 : 3,142,920
124 : 3,121,966
125 : 3,120,069
3,131,495
3,132,431
3,138,886
3,141,252
3,143,817
3,146,541
3,147,560
3,148,471
3,150,455
125 : 3,153,872
3,160,973
3,160,974
128 : 3,154,870
129 : 3,141,253
3,152,416
3,153,294
3,158,946
3,161,973
130 : 3,130,511
3,131,496
3,137,082
3,145,493
3,150,456
3,154,871
3,159,937
3,161,974
132 : 3,136,083
3,137,083
3,156,990
3,160,975
135 : 3,154,872
137 : 3,135,063
140 : 3,142,124
143 : 3,130,512
152 : 3,133,368
3,150,457
3,161,975
.1 : 3,129,524
.1 : 3,132,432
.1 : 3,138,887
158 : 3,147,561
209 : 3,137,955
213 : 3,151,410
311 : 3,149,431
312 : 3,126,660
324 : 3,137,956
330 : 3,123,926
331 : 3,156,058
334 : 3,154,873

Class 41

10 : 3,125,241

Class 42

1 : 3,118,242
3,127,691
3,131,498
3,137,957
3,139,692
3,145,494
3,148,472
3,152,417
3,153,873
3,154,874
3,156,991
3,156,992
3,157,957
5 : 3,161,976
17 : 3,125,821
3,142,921
3,142,922
3,156,993
18 : 3,120,070
3,123,927
3,140,554
19 : 3,133,369
21 : 3,143,818
3,161,977
25 : 3,120,071
3,137,084
3,142,923
3,144,727
3,161,978
32 : 3,142,924
41 : 3,153,874
42 : 3,131,499
3,142,925
47 : 3,142,125
3,156,994
50 : 3,143,819
3,143,820
3,158,947
54 : 3,149,432
55 : 3,151,411
59 : 3,124,889
3,133,370
3,136,084
3,145,495
3,159,938
65 : 3,142,126
3,158,948
3,158,949
3,158,950
69 : 3,142,926
3,145,496
3,152,418
70 : 3,120,713
3,128,570
3,130,513
3,138,888
70 : 3,139,694
3,141,254
3,157,958
71 : 3,128,571
3,156,059
72 : 3,123,928
3,162,966
73 : 3,137,958
74 : 3,135,064
3,147,562
3,160,976
75 : 3,150,458
3,153,295
76 : 3,118,243
3,151,412
77 : 3,138,889
3,156,995
79 : 3,123,929
3,156,060
3,156,061
3,161,979
87 : 3,153,296
89 : 3,131,500
3,150,459
94 : 3,156,062

Class 43

3 : 3,149,433
4 : 3,150,460
.5 : 3,161,980
5 : 3,123,930
6 : 3,153,875
.5 : 3,124,890
.5 : 3,138,890
7 : 3,121,967
3,127,692
3,132,433
3,153,297
8 : 3,158,951
3,160,977
9 : 3,120,714
3,121,968
3,127,693
3,131,501
3,131,502
3,132,434
3,132,435
3,132,436
3,132,437
3,136,085
3,143,821
3,156,996
3,161,981
3,162,967
10 : 3,162,968
11 : 3,156,063
15 : 3,154,875
3,162,969
17 : 3,120,072
3,134,186
3,134,187
3,134,188
3,136,086
3,143,822
3,147,563
3,148,473
3,156,997
.1 : 3,120,073
.2 : 3,144,728
.2 : 3,156,064
.2 : 3,160,978
18 : 3,121,290
19 : 3,129,525
3,142,127
3,143,823
21.2 : 3,159,939
.2 : 3,162,970
22 : 3,123,931
24 : 3,117,388
3,156,998
26 : 3,131,503
3,138,891
.2 : 3,124,891
35 : 3,117,389
3,120,074
3,147,564
3,159,940
37 : 3,130,514
3,154,876
42 : 3,124,892
.03: 3,152,419
.03: 3,153,298
.03: 3,157,959
.08: 3,122,852
.09: 3,123,932
.09: 3,137,960
.09: 3,153,876
.1 : 3,121,969
.1 : 3,151,413
.11: 3,141,255
.11: 3,143,824
.13: 3,118,244

42.13: 3,137,959
.16: 3,131,504
.17: 3,143,825
.19: 3,127,694
.24: 3,122,853
.24: 3,148,474
.24: 3,149,434
.24: 3,158,952
.25: 3,133,371
.25: 3,138,892
.3 : 3,162,971
.31: 3,142,927
.34: 3,133,372
.36: 3,137,085
.36: 3,139,695
.39: 3,126,661
.39: 3,139,693
.41: 3,133,373
.45: 3,128,572
.45: 3,146,543
.48: 3,125,822
.48: 3,148,475
.5 : 3,145,497
.5 : 3,146,542
.51: 3,154,877
43.1 : 3,120,715
.1 : 3,137,961
.1 : 3,161,982
.11: 3,130,515
.11: 3,141,256
.11: 3,144,729
.11: 3,149,435
.11: 3,159,941
.12: RE.25,650
.13: 3,130,516
.13: 3,134,189
.13: 3,135,065
.13: 3,137,962
.13: 3,140,555
.13: 3,142,929
.13: 3,145,498
.13: 3,156,065
.14: 3,158,953
.15: 3,118,245
.4 : 3,142,928
44.4 : 3,156,066
.81: 3,121,291
.82: 3,134,190
.85: 3,160,979
.88: 3,154,878
.9 : 3,161,983
.91: 3,145,499
.95: 3,142,930
.97: 3,117,390
.97: 3,151,414
53.5 : 3,132,438
.5 : 3,154,879
55 : 3,141,257
3,148,476
57 : 3,136,087
.5 : 3,121,970
.5 : 3,122,854
.5 : 3,122,855
.5 : 3,126,662
.5 : 3,133,374
.5 : 3,141,258
.5 : 3,142,931
.5 : 3,146,544
.5 : 3,154,880
66 : 3,122,856
76 : 3,125,823
84 : 3,140,556
85 : 3,161,984
90 : 3,146,545
103 : 3,145,500
124 : 3,124,893
3,151,746
129 : 3,134,191
3,161,985
3,162,972
131 : 3,122,857
3,146,546
3,147,565
139 : 3,120,075
3,123,933
3,152,420
148 : 3,141,259

Class 44

7 : 3,126,259
3,148,958
17 : 3,133,799
40 : 3,124,432
51 : 3,122,429
3,147,091
3,161,486
56 : 3,157,477
57 : 3,124,433
58 : 3,120,429
59 : 3,151,956
3,156,542
62 : 3,126,260
62 : 3,141,745
3,151,957
3,155,463
3,159,470
3,160,484
63 : 3,121,622
3,139,330
3,144,311
3,146,079
3,150,941
3,155,464
3,155,465
3,158,450
3,163,504
66 : 3,127,251
3,132,008
3,140,162
68 : 3,130,017
69 : 3,123,450
3,124,434
3,126,261
3,129,074
3,133,800
3,143,399
3,143,400
3,148,959
3,158,451
3,158,452
3,160,485
3,161,487
70 : 3,128,162
3,163,505
71 : 3,148,039
3,148,960
72 : 3,118,745
3,130,018
74 : 3,163,507
75 : 3,149,933
76 : 3,130,019
3,148,961
3,163,506
78 : 3,156,543

Class 45

24 : 3,124,894
3,126,663
3,127,695
3,137,963
28 : 3,125,824
3,137,086
3,140,557
57 : 3,119,194
3,126,664
59 : 3,125,825
60 : 3,139,696
61 : 3,142,128
68 : 3,120,076
.1 : 3,118,246
.2 : 3,117,391
.2 : 3,124,895
.3 : 3,126,665
.4 : 3,120,077
.4 : 3,137,087
80 : 3,128,573
81 : 3,123,934
85 : 3,123,935
3,140,558
121 : 3,134,192
3,134,193
129 : 3,122,858
3,132,439
130 : 3,133,375
3,137,088
131 : 3,116,568
3,132,440
3,137,089
3,140,559
3,141,260
3,142,129
137 : 3,126,666
3,137,090
3,138,893
138 : 3,116,569
139 : 3,117,392
3,131,505
3,137,091
3,137,964
3,137,965

Class 46

1 : 3,119,195
3,120,716
3,138,894
6 : 3,123,936
9 : 3,117,393
3,154,881
3,160,980
11 : 3,142,130
3,154,882
13 : 3,124,896
14 : 3,120,717
14 : 3,120,718
3,133,376
17 : 3,120,719
3,126,667
3,139,697
3,145,501
19 : 3,137,967
21 : 3,129,526
22 : RE.25,678
3,158,954
25 : 3,139,698
3,148,477
3,162,973
28 : 3,132,443
29 : 3,153,299
31 : 3,120,078
3,161,986
32 : 3,140,560
3,162,974
37 : 3,122,859
40 : 3,126,668
3,142,932
3,161,987
41 : 3,117,394
43 : 3,132,441
47 : 3,135,066
3,141,262
50 : 3,137,966
51 : 3,124,897
3,130,517
3,157,961
52 : 3,157,962
61 : 3,139,699
3,156,068
62 : 3,140,561
63 : 3,131,506
65 : 3,142,933
74 : 3,119,196
3,121,292
3,128,574
3,134,194
3,148,478
75 : 3,127,696
3,161,988
76 : 3,136,088
77 : 3,132,442
78 : 3,153,877
3,154,883
81 : 3,157,960
82 : 3,124,898
86 : 3,124,899
3,139,700
89 : 3,153,878
91 : 3,126,669
3,144,730
92 : 3,153,879
97 : 3,119,197
98 : 3,120,079
105 : 3,124,900
3,130,518
107 : 3,157,963
110 : 3,118,247
3,118,248
116 : 3,117,395
118 : 3,119,198
3,125,826
3,141,261
3,153,880
3,162,975
119 : 3,142,131
120 : 3,125,827
3,125,828
3,128,575
124 : 3,160,981
126 : 3,153,881
149 : 3,125,829
3,147,566
150 : 3,153,300
161 : 3,124,901
169 : 3,120,720
172 : 3,156,999
3,162,976
175 : 3,121,293
3,131,507
3,138,895
177 : 3,129,527
178 : 3,129,528
189 : 3,162,977
191 : 3,157,000
195 : 3,135,067
201 : 3,144,731
3,158,955
202 : 3,120,721
3,135,068
3,140,562
3,160,982
204 : 3,119,199
220 : 3,123,937
221 : 3,120,080
3,120,081
3,121,294
3,162,978
228 : 3,162,979
232 : 3,119,200
3,136,089
3,137,092
3,150,461
3,159,942
3,160,983
3,160,984
3,162,980
236 : 3,121,971
240 : 3,126,670
3,143,826
242 : 3,147,567
243 : 3,124,902
3,137,093
244 : 3,131,508
3,142,132
3,146,547
245 : 3,119,201

Class 47

1 : 3,121,972
3,131,509
3,137,094
3,154,884
3,157,964
3,158,956
3,160,985
.1 : 3,118,249
.2 : 3,134,195
.3 : 3,120,722
.7 : 3,147,568
2 : 3,121,295
3,129,529
9 : 3,121,973
12 : 3,121,974
14 : 3,141,263
17 : 3,121,975
3,124,903
19 : 3,129,530
3,136,090
20 : 3,140,563
26 : 3,154,885
28 : 3,123,938
33 : 3,137,095
34 : 3,142,934
3,153,301
3,158,957
.13: 3,144,732
37 : 3,125,830
3,134,196
3,142,133
3,147,569
3,161,989
38 : 3,137,096
40 : 3,127,697
3,148,479
41 : 3,118,250
3,127,698
3,131,510
3,131,511
3,142,936
.12: 3,148,480
44 : 3,154,886
47 : 3,119,202
3,157,001
48.5 : 3,142,935
.5 : 3,151,415
51 : 3,156,069
55 : 3,150,462
56 : 3,160,986
57.5 : 3,124,904
.5 : 3,130,519
.5 : 3,136,091
.5 : 3,137,968
.5 : 3,137,969
58 : 3,118,251
3,138,896
3,139,701
3,142,134
3,142,135
3,146,548
3,158,958
3,162,981

Class 48

95 : 3,144,312
102 : 3,117,848
3,120,430
3,156,544
105 : 3,124,435
107 : 3,131,037
176 : 3,137,548
180 : 3,119,672
3,132,009
3,143,401
184 : 3,123,451
3,136,613
192 : 3,127,252
3,148,962
193 : 3,131,038
196 : 3,120,431
196 : 3,130,020
3,132,010
3,138,438
3,147,092
197 : 3,118,746
3,128,163
212 : 3,128,164
213 : 3,124,436
215 : 3,147,093

Class 50

5 : 3,157,002
12 : 3,156,070
16 : 3,127,699
19 : 3,133,377
38 : 3,148,481
49 : 3,153,302
3,153,303
52 : 3,129,531
3,137,097
3,142,136
3,154,887
3,154,888
55 : 3,132,444
66 : 3,132,445
3,137,970
67 : 3,143,827
3,160,987
70 : 3,123,939
74 : 3,134,197
91 : 3,130,520
94 : 3,127,700
100 : 3,124,905
3,137,098
3,161,990
101 : 3,140,564
3,153,304
102 : 3,121,976
113 : 3,124,906
116 : 3,137,099
3,139,702
117 : 3,134,198
118 : 3,139,703
127 : 3,131,512
128 : 3,119,203
3,126,671
3,137,971
3,145,502
3,152,421
129 : 3,146,549
131 : 3,158,959
140 : 3,136,092
160 : 3,154,889
181 : 3,147,570
192 : 3,127,701
193 : 3,137,100
196 : 3,135,069
200 : 3,158,960
3,159,943
201 : 3,157,965
202 : 3,149,436
3,150,463
209 : 3,118,252
211 : 3,158,961
218 : 3,131,513
3,150,464
220 : 3,142,937
3,143,828
221 : 3,135,070
230 : 3,120,082
3,157,003
236 : 3,132,446
3,150,465
243 : 3,137,972
3,138,897
262 : 3,140,565
268 : 3,122,860
3,125,831
271 : 3,121,977
272 : 3,131,514
273 : 3,116,570
291 : 3,147,571
319 : 3,133,378
321 : 3,127,702
3,158,962
322 : 3,127,703
343 : 3,148,482
344 : 3,142,938
346 : 3,119,204
3,128,576
3,137,973
3,145,503
347 : 3,138,898
368 : 3,162,982
373 : 3,149,437
3,158,963
389 : 3,127,704
395 : 3,138,899
399 : 3,132,447
3,159,944
413 : 3,120,083
3,150,466
416 : 3,123,940
442 : 3,158,964
453 : 3,145,504
464 : 3,134,199
468 : 3,157,966
473 : 3,159,945
474 : 3,121,978
479 : 3,145,505
481 : 3,144,733
3,160,988
519 : 3,132,448
527 : 3,123,941
531 : 3,123,942
532 : 3,127,705
3,151,416
533 : 3,122,861
534 : 3,134,200
3,156,071
536 : 3,140,566
537 : 3,122,862

Class 51

5 : 3,158,965
7 : 3,118,253
3,128,577
8 : 3,122,863
3,133,379
3,139,704
3,139,705
3,149,438
3,150,467
3,160,989
9 : 3,127,706
3,138,900
3,151,417
3,151,418
3,158,966
3,160,990
3,160,991
3,160,992
3,160,993
3,161,991
3,162,983
11 : 3,137,974
12 : 3,141,264
3,148,484
13 : RE.25,554
3,132,449
3,137,101
14 : 3,142,939
15 : 3,146,550
3,147,572
3,153,882
26 : 3,130,521
3,141,265
3,142,940
3,159,946
29 : 3,116,571
32 : 3,133,380
3,156,072
33 : 3,117,396
3,125,832
3,144,734
3,145,506
3,159,947
34 : 3,119,205
3,121,296
3,126,672
3,126,673
3,136,093
3,141,266
3,146,551
3,149,439
3,159,948
3,161,992
38 : 3,150,468
39 : 3,126,674
45 : 3,118,254
46 : 3,124,907
48 : 3,117,397
3,126,675
49 : 3,139,706
52 : 3,152,422
55 : 3,118,255
3,128,578
3,152,423
57 : 3,156,073
58 : 3,131,515
3,139,707
59 : 3,133,381
3,154,890
60 : 3,120,723
62 : 3,146,552
65 : 3,131,516
67 : 3,116,572
72 : 3,152,424
73 : 3,117,398
3,137,975
3,151,419
76 : 3,136,094
76 : 3,162,984
80 : 3,150,469
83 : 3,127,707
84 : 3,127,708
3,134,201
85 : 3,153,305
89 : 3,158,967
90 : 3,121,297
3,127,709
3,134,202
3,149,440
92 : 3,126,676
95 : 3,130,522
3,136,095
96 : 3,118,256
98 : 3,129,532
3,143,829
99 : 3,146,553
101 : 3,119,206
3,121,979
3,122,864
3,129,533
102 : 3,125,833
103 : 3,118,257
3,133,382
3,154,891
105 : 3,118,258
3,142,941
3,145,507
3,145,508
3,147,573
106 : 3,128,579
3,137,976
108 : 3,140,567
111 : 3,142,137
112 : 3,151,420
3,157,005
117 : 3,133,383
119 : 3,130,523
3,137,977
122 : 3,156,074
123 : 3,117,399
3,146,554
124 : 3,121,980
125 : 3,132,450
3,158,968
128 : 3,146,555
129 : 3,138,901
131 : 3,128,580
134 : 3,142,942
.5 : 3,129,534
.5 : 3,134,204
.5 : 3,157,006
135 : 3,127,710
3,127,711
3,153,306
137 : 3,137,102
138 : 3,125,834
3,132,451
3,134,205
3,159,949
139 : 3,146,556
140 : 3,124,908
3,129,535
141 : 3,124,909
3,145,509
142 : 3,133,384
3,134,206
3,136,096
3,136,097
144 : 3,157,967
145 : 3,157,968
147 : 3,149,441
148 : 3,127,712
157 : 3,137,019
158 : 3,142,943
160 : 3,153,883
161 : 3,151,421
3,160,994
163 : 3,129,536
3,134,207
3,159,950
3,161,993
164 : 3,134,203
3,139,708
3,145,510
3,146,557
3,148,485
3,152,425
165 : 3,123,943
3,124,910
3,127,713
3,130,524
3,130,525
3,131,517
3,136,098
3,137,103
3,141,267
3,142,944
3,143,830
3,143,831
3,143,832
3,143,833

Class 51—Con.

165 : 3,147,574
3,151,422
3,153,884
3,156,075
3,157,007
3,157,969
3,157,970
3,157,971
166 : 3,129,537
3,129,538
3,135,071
3,137,104
3,142,945
3,144,735
168 : 3,141,268
3,144,736
170 : 3,119,207
3,136,099
3,137,105
3,148,486
3,151,423
3,159,951
3,160,995
173 : 3,122,865
174 : 3,123,944
3,146,558
175 : 3,148,487
176 : 3,137,106
3,161,994
177 : 3,124,911
3,128,581
3,129,539
3,146,559
178 : 3,154,892
181 : 3,118,259
184.3 : 3,116,573
.3 : 3,123,945
.3 : 3,138,902
185 : 3,116,574
3,126,677
3,131,518
3,144,737
3,147,575
3,150,470
186 : 3,123,946
187 : 3,123,947
3,127,714
3,129,540
188 : 3,146,560
193 : 3,120,724
3,137,107
.5 : 3,116,575
.5 : 3,116,576
.5 : 3,141,269
.5 : 3,144,738
.7 : 3,132,452
194 : 3,125,835
3,129,541
195 : 3,119,208
3,121,298
3,139,709
3,149,442
196 : 3,149,443
204 : 3,123,948
3,154,893
205 : 3,120,084
3,141,270
3,153,307
206 : 3,127,715
3,141,271
3,142,138
3,145,511
3,154,894
3,159,952
.4 : 3,146,561
.5 : 3,144,739
207 : 3,121,981
209 : 3,117,400
3,121,299
3,121,982
3,136,100
3,142,946
3,161,995
211 : 3,135,072
215 : 3,127,716
3,160,996
216 : 3,140,568
217 : 3,136,101
3,162,985
218 : 3,116,577
3,126,678
3,127,717
219 : 3,121,983
3,126,679
3,132,153
3,158,969
225 : 3,138,903
3,145,512
227 : 3,122,866
3,122,867
229 : 3,125,836
3,135,073
232 : 3,120,085
3,151,424
235 : 3,134,208
236 : 3,118,260
3,130,526
3,132,454
3,140,569
3,158,970
237 : 3,120,725
3,125,837
3,128,582
3,159,953
238 : 3,123,949
3,124,912
3,145,513
240 : 3,133,385
241 : 3,117,401
3,118,261
3,119,209
3,135,074
3,142,139
3,146,562
243 : 3,154,895
245 : 3,119,210
247 : 3,157,008
249 : 3,139,710
3,149,444
250 : 3,120,086
262 : 3,123,950
3,123,951
3,162,986
263 : 3,148,488
267 : 3,152,426
3,153,885
273 : 3,137,108
3,157,009
277 : 3,136,102
3,146,563
3,152,427
281 : 3,120,087
3,123,952
3,125,838
3,141,272
3,156,076
3,160,997
3,161,996
283 : 3,120,088
3,123,953
3,158,971
284 : RE.25,620
3,123,954
3,141,273
3,142,140
288 : 3,117,402
3,162,987
290 : 3,134,209
291 : 3,150,471
293 : 3,121,623
3,127,253
3,131,039
3,133,801
3,148,963
297 : 3,116,986
3,136,614
298 : 3,126,262
3,135,590
3,156,545
307 : 3,123,452
3,128,165
3,136,615
3,141,746
3,155,466
309 : 3,141,747
311 : 3,117,403
312 : 3,137,978
313 : 3,160,998
316 : 3,116,578
3,161,997
317 : 3,139,711
319 : 3,149,445
328 : 3,154,896
3,157,972
377 : 3,157,010
3,158,972
379 : 3,151,425
392 : 3,157,973
395 : 3,156,077
399 : 3,154,897

Class 53

3 : 3,126,680
3,145,514
7 : 3,161,998
13 : 3,135,075
14 : 3,119,211
3,138,904
3,143,834
3,148,489
22 : 3,150,472
3,153,886
3,157,011
24 : 3,119,212
25 : 3,124,913
26 : 3,119,213
3,124,914
3,133,386
3,135,076
27 : 3,124,915
3,145,515
28 : 3,120,726
3,126,681
3,127,718
3,140,572
3,150,473
29 : 3,120,727
30 : 3,123,955
3,125,839
3,126,682
3,133,387
3,134,210
3,154,898
3,161,999
32 : 3,153,308
33 : 3,139,712
35 : 3,119,214
3,123,956
36 : 3,117,404
3,119,215
37 : 3,124,916
3,162,000
38 : 3,140,570
39 : 3,119,216
3,140,571
3,160,999
41 : 3,151,426
42 : 3,120,728
3,122,868
3,127,719
44 : 3,151,427
47 : 3,138,905
48 : 3,127,720
3,129,542
3,130,527
3,137,109
3,141,274
3,144,740
3,162,988
50 : 3,121,300
51 : 3,140,573
53 : 3,127,721
3,143,835
55 : 3,130,528
3,139,713
3,142,947
3,142,948
59 : 3,152,428
61 : 3,159,954
64 : 3,120,729
3,129,544
66 : 3,150,474
3,158,973
67 : 3,121,984
3,129,543
68 : 3,156,078
74 : 3,121,301
86 : 3,123,957
88 : 3,124,917
3,152,429
3,157,974
112 : 3,129,545
3,133,388
115 : 3,121,985
3,137,979
3,157,012
117 : 3,131,519
119 : 3,128,583
120 : 3,145,516
3,161,000
122 : 3,122,869
3,126,683
3,129,546
123 : 3,123,958
3,130,529
3,136,103
3,141,275
3,141,276
124 : 3,138,906
3,143,836
3,162,001
125 : 3,124,918
128 : 3,137,980
135 : 3,126,684
137 : 3,133,389
138 : 3,126,685
139 : 3,146,564
143 : 3,123,959
151 : 3,129,547
157 : 3,125,840
159 : 3,139,714
160 : 3,116,579
168 : 3,137,981
170 : 3,149,446
176 : 3,131,520
180 : 3,131,521
3,133,390
3,149,447
3,159,955
182 : 3,135,077
3,161,001
184 : 3,118,262
3,128,584
186 : 3,120,089
3,153,309
3,161,002
190 : 3,145,517
3,154,899
192 : 3,139,715
3,146,565
198 : 3,122,870
3,126,686
3,129,548
3,141,277
3,150,475
201 : 3,132,455
206 : 3,133,391
3,154,900
214 : 3,135,078
226 : 3,133,392
227 : 3,131,522
228 : 3,125,841
230 : 3,127,722
234 : 3,136,104
236 : 3,119,217
3,128,585
3,137,110
247 : 3,136,105
248 : 3,142,141
250 : 3,150,476
251 : 3,133,393
255 : 3,152,430
3,161,003
258 : 3,131,523
266 : 3,120,730
268 : 3,119,218
316 : 3,137,982
319 : 3,141,278
329 : 3,116,580
331.5 : 3,134,211
363 : 3,162,002
370 : 3,150,477
3,150,478
373 : 3,137,111
3,143,837
3,151,428
3,154,901
374 : 3,146,566
3,147,576
376 : 3,123,960
3,131,524
3,137,112
3,143,838
379 : 3,157,975
380 : 3,139,716
381 : 3,133,394
382 : 3,141,279
385 : 3,138,907
387 : 3,125,842
3,145,518
389 : 3,118,263
390 : 3,141,280
3,146,567
391 : 3,161,004

Class 54

6 : 3,149,448
23 : 3,144,741
37 : 3,153,887
44 : 3,157,976
46 : 3,130,530
49 : 3,157,977
71 : 3,161,005
82 : 3,119,219
3,124,919
83 : 3,153,888
3,157,013

Class 55

13 : 3,124,437
15 : 3,151,958
16 : 3,135,591
3,144,313
3,155,467
17 : 3,129,075
19 : 3,162,513
20 : 3,119,673
3,119,674
3,124,438
22 : 3,125,425
25 : 3,140,931
3,141,748
3,155,468
26 : 3,142,547
30 : 3,152,877
3,161,488
31 : 3,116,987
3,148,040
3,148,041
3,150,942
3,162,514
32 : 3,151,959
3,162,515
33 : 3,118,747
3,121,002
3,123,453
3,130,021
3,137,549
3,138,439
35 : 3,161,489
36 : 3,157,478
38 : 3,129,076
40 : 3,132,011
44 : 3,121,624
46 : 3,163,508
48 : 3,132,012
52 : 3,134,655
53 : 3,132,013
58 : 3,121,625
3,149,934
66 : 3,155,469
67 : 3,136,616
3,156,546
68 : 3,127,254
3,140,932
3,140,933
71 : 3,134,656
3,140,934
3,143,402
80 : 3,138,440
84 : 3,149,935
89 : 3,142,548
90 : 3,135,592
94 : 3,151,960
96 : 3,146,080
97 : 3,155,470
98 : 3,162,516
105 : 3,147,094
112 : 3,158,453
114 : 3,149,936
118 : 3,156,547
3,159,471
3,159,472
130 : 3,125,426
131 : 3,117,849
3,137,550
137 : 3,149,937
139 : 3,140,935
3,149,938
143 : 3,124,439
146 : 3,157,479
152 : 3,158,454
156 : 3,143,403
158 : 3,132,014
159 : 3,131,040
162 : 3,155,471
3,160,486
163 : 3,147,095
178 : 3,127,255
3,155,472
179 : 3,140,936
3,144,314
182 : 3,130,022
197 : 3,156,548
200 : 3,123,454
201 : 3,147,096
204 : 3,149,939
205 : 3,151,961
3,161,490
208 : 3,143,404
219 : 3,130,023
222 : 3,116,988
227 : 3,130,024
3,138,441
3,138,442
228 : 3,123,455
229 : 3,148,042
230 : 3,148,964
233 : 3,127,256
234 : 3,163,509
235 : 3,131,041
237 : 3,139,331
257 : 3,116,989
3,119,675
3,140,163
261 : 3,150,943
263 : 3,134,657
269 : 3,129,077
3,137,551
3,157,480
3,162,517
274 : 3,144,315
276 : 3,147,097
278 : 3,122,430
3,131,042
281 : 3,145,089
292 : 3,118,748
3,158,455
294 : 3,116,990
3,147,098
3,155,473
306 : 3,148,043
309 : 3,127,257
313 : 3,129,078
3,148,965
315 : 3,120,432
3,146,081
316 : 3,142,549
3,149,940
3,162,518
317 : 3,126,263
344 : 3,147,099
346 : 3,131,043
350 : 3,151,962
376 : 3,132,932
378 : 3,131,044
386 : 3,149,941
387 : 3,126,264
388 : 3,158,456
407 : 3,137,552
3,141,749
3,141,750
409 : 3,150,944
417 : 3,157,481
3,160,487
418 : 3,155,474
419 : 3,147,100
431 : 3,137,553
441 : 3,134,658
442 : 3,140,937
472 : 3,158,457
481 : 3,118,749
483 : 3,133,802
484 : 3,124,440
491 : 3,132,015
492 : 3,123,456
493 : 3,150,945
495 : 3,142,550
3,149,942
499 : 3,127,258
3,138,443
3,158,458
500 : 3,124,441
3,125,427
524 : 3,118,750

Class 56

1 : 3,116,581
3,116,582
3,118,264
3,126,687
3,128,586
3,146,568
3,146,569
3,153,889
3,158,974
3,158,975
2 : 3,156,079
6 : 3,116,583
3,135,079
3,157,014
8 : 3,130,531
3,133,395
11 : 3,117,405
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19 : 3,142,949
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24 : 3,135,080
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42 : 3,137,114
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332 : 3,161,007

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3,157,019
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Class 57

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9 : 3,130,534
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10 : 3,161,009
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12 : 3,144,746
13 : 3,126,694
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17 : 3,122,872
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18 : 3,124,924
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22 : 3,149,451
25 : 3,151,437
31 : 3,162,004
32 : 3,122,873
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34 : 3,118,269
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50 : 3,118,270
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51 : 3,151,438
52 : 3,116,586
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55.5 : 3,125,846
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59 : 3,140,577
62 : 3,123,968
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73 : 3,141,286
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94 : 3,120,731
98 : 3,150,480
99 : 3,123,970
104 : 3,134,218
105 : 3,119,226
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161 : 3,124,927
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162 : 3,137,120
164 : 3,127,732
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165 : 3,147,582

Class 58

4 : 3,152,437
14 : 3,135,084
21.1 : 3,158,986
.12: 3,127,733
.13: 3,126,700
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38 : 3,154,911
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144 : 3,120,735
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145 : 3,136,117
146 : 3,117,413
152 : 3,157,985

Class 59

7 : 3,147,585
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8 : 3,125,850
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35 : 3,128,593
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77 : 3,151,443
78 : 3,147,586
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84 : 3,139,720
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85 : 3,121,308
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88 : 3,144,748
90 : 3,124,929
91 : 3,149,453
95 : 3,152,440

Class 60

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6 : 3,132,471
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Class 60—Con.

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3,143,859
3,149,464
3,150,491
3,151,456
3,152,445
3,153,908
3,153,909
3,157,995
3,157,996
3,157,997
3,157,998
3,161,022
3,161,023
54 : 3,116,608
3,118,279
3,120,740
3,125,857
3,136,129
3,140,585
3,145,535
3,146,595
3,147,595
3,149,465
3,149,466
3,149,467
3,150,492
3,151,457
3,152,446
3,152,447
3,153,326
3,153,327
3,153,910
3,154,924
3,156,095
3,157,031
3,157,999
3,162,015
3,162,016
.5 : RE.25,700
.5 : 3,118,280
54.5 : 3,119,235
.5 : 3,120,104
.5 : 3,130,549
.5 : 3,130,550
.5 : 3,130,551
.5 : 3,133,419
.5 : 3,135,094
.5 : 3,136,130
.5 : 3,140,586
.5 : 3,141,302
.5 : 3,145,536
.5 : 3,146,596
.5 : 3,152,448
.5 : 3,152,449
.5 : 3,156,096
.5 : 3,157,032
.5 : 3,158,000
.5 : 3,158,001
.5 : 3,162,017
.5 : 3,163,007
.6 : 3,117,421
.6 : 3,138,003
.6 : 3,140,587
.6 : 3,141,303
.6 : 3,142,965
.6 : 3,143,860
.6 : 3,144,753
.6 : 3,145,537
.6 : 3,146,597
.6 : 3,147,596
.6 : 3,149,468
.6 : 3,149,469
.6 : 3,150,493
.6 : 3,151,458
.6 : 3,151,459
.6 : 3,153,328
.6 : 3,156,097
.6 : 3,157,033
.6 : 3,157,034
.6 : 3,159,974
.6 : 3,159,975
.6 : 3,161,024
.6 : 3,162,018
55 : 3,118,281
57 : 3,139,728
59 : 3,148,507
3,158,002
60 : 3,123,976
3,127,746
3,142,966
3,147,597
3,151,460
3,161,025
62 : 3,135,095
64 : 3,147,598
3,148,508
3,149,470
67 : 3,127,747
3,129,564
3,151,461
3,153,329
73 : 3,140,588
95 : 3,147,599
97 : 3,120,741
3,153,911
3,154,925
3,156,098
3,163,008
102 : 3,136,131
104 : 3,117,422
105 : 3,142,967
106 : 3,135,096
107 : 3,150,494
3,163,009

Class 61

.5 : 3,123,977
.5 : 3,151,462
1 : 3,129,565
3,146,598
3,151,463
3 : 3,161,026
4 : 3,118,282
6 : 3,148,509
11 : 3,122,888
12 : 3,134,233
14 : 3,116,609
3,156,099
16 : 3,131,541
20 : 3,122,889
23 : 3,121,313
29 : 3,153,330
35 : RE.25,614
3,139,729
36 : 3,124,934
3,130,552
3,141,304
3,159,976
3,163,010
41 : 3,159,977
3,159,978
42 : 3,122,890
42 : 3,143,861
45 : 3,120,105
3,126,708
3,127,748
3,139,730
3,143,862
3,159,003
3,163,011
3,163,012
46 : 3,117,423
3,121,997
3,134,234
3,134,235
3,145,538
3,161,027
.5 : 3,118,283
.5 : 3,120,106
.5 : 3,128,604
.5 : 3,138,931
.5 : 3,138,932
.5 : 3,145,539
.5 : 3,146,458
48 : 3,131,542
3,158,003
50 : 3,135,097
3,153,912
53 : 3,123,978
3,125,858
3,126,709
3,134,236
3,141,305
3,145,540
.5 : 3,131,543
.5 : 3,137,140
.58: 3,151,464
.58: 3,152,450
.68: 3,148,510
.72: 3,118,284
.72: 3,131,544
.72: 3,145,541
54 : 3,139,731
3,141,306
64 : 3,124,935
3,133,420
3,136,132
65 : 3,139,732
66 : 3,123,979*
67 : 3,146,599
69 : 3,161,028
70 : 3,135,098
3,142,968
72.3 : 3,125,859
.3 : 3,133,421
.3 : 3,136,133
.6 : 3,120,107
85 : 3,138,933

Class 62

3 : 3,118,285
3,118,286
3,119,236
3,121,998
3,123,980
3,124,936
3,125,860
3,125,861
3,126,710
3,127,749
3,130,553
3,131,545
3,132,488
3,136,134
3,137,141
3,137,142
3,138,934
3,139,733
3,139,734
3,142,158
3,146,600
3,146,601
3,148,511
3,149,471
3,151,465
3,152,451
3,154,926
3,154,927
3,159,979
4 : 3,149,943
5 : 3,144,754
6 : 3,119,237
3,128,605
3,138,004
3,147,600
3,148,512
3,151,466
7 : 3,130,554
9 : 3,118,751
3,144,316
10 : 3,124,442
12 : 3,144,317
3,159,473
13 : 3,119,676
13 : 3,129,080
3,143,406
14 : 3,126,265
3,141,751
15 : 3,132,016
17 : 3,130,026
18 : 3,123,457
3,126,266
3,163,511
21 : 3,130,027
3,148,966
3,160,489
22 : 3,127,260
23 : 3,119,677
3,162,519
27 : 3,126,267
30 : 3,131,045
37 : 3,129,081
38 : 3,160,490
40 : 3,154,394
3,161,492
42 : 3,124,443
3,129,082
45 : 3,122,891
3,127,750
3,136,135
3,137,143
3,152,452
3,158,459
3,159,004
3,159,005
3,159,006
3,163,013
48 : 3,117,424
3,121,999
3,142,159
3,151,467
3,163,014
50 : 3,133,422
3,134,237
51 : 3,123,981
3,156,100
52 : 3,126,711
3,127,751
3,127,752
3,135,099
53 : 3,154,928
54 : 3,119,238
3,124,937
3,132,489
3,150,495
55 : 3,122,000
3,123,982
3,123,983
3,130,555
3,136,136
3,149,472
3,151,468
58 : 3,121,626
3,121,627
3,137,554
3,137,555
3,142,969
3,154,395
3,159,474
64 : 3,138,935
3,150,496
3,150,497
66 : 3,127,753
67 : 3,162,019
69 : 3,159,007
71 : 3,152,453
72 : 3,143,863
73 : 3,130,556
77 : 3,138,936
81 : 3,122,892
3,126,712
3,132,490
3,150,498
85 : 3,131,546
3,138,005
3,146,602
86 : 3,131,547
88 : 3,129,566
93 : 3,119,239
3,122,893
98 : 3,146,603
3,159,008
100 : 3,116,610
3,128,606
3,138,937
101 : 3,146,604
103 : 3,124,938
110 : 3,159,009
112 : 3,124,939
117 : 3,122,894
3,126,713
123 : 3,116,611
3,150,499
124 : 3,150,500
3,158,004
125 : 3,123,984
3,153,913
126 : 3,120,108
3,122,001
129 : 3,163,015
3,163,016
130 : 3,136,137
133 : 3,121,314
135 : 3,149,473
136 : 3,147,601
137 : 3,126,714
3,144,755
3,154,929
3,163,017
3,163,018
3,163,019
138 : 3,163,020
140 : 3,134,238
141 : 3,122,002
3,137,144
3,138,938
3,141,307
3,145,542
148 : 3,154,930
149 : 3,145,543
150 : 3,131,548
3,152,454
151 : 3,126,715
155 : 3,138,939
3,159,980
156 : 3,118,287
3,119,240
3,125,862
3,126,716
3,133,423
3,138,006
3,158,005
3,159,981
157 : 3,122,003
158 : 3,127,754
3,128,607
159 : 3,151,469
160 : 3,123,985
3,133,424
3,148,513
3,163,021
168 : 3,163,022
169 : 3,144,756
170 : 3,134,239
3,149,474
171 : 3,116,612
3,130,557
172 : 3,120,109
3,133,425
173 : 3,139,735
174 : 3,138,940
3,150,501
175 : 3,125,863
3,159,982
176 : RE.25,550
177 : 3,163,025
180 : 3,121,315
3,139,736
181 : 3,123,986
3,134,240
183 : 3,137,145
3,148,514
184 : 3,122,895
3,138,941
3,152,455
185 : 3,120,110
186 : 3,126,717
195 : 3,145,544
196 : 3,117,425
3,133,426
3,134,241
197 : 3,130,558
3,134,242
3,146,605
3,149,475
3,150,502
3,161,029
202 : 3,142,160
219 : 3,126,718
222 : 3,148,515
223 : 3,117,426
3,156,101
227 : 3,133,427
228 : 3,131,549
232 : 3,140,589
233 : 3,146,606
237 : 3,156,102
238 : 3,142,161
239 : 3,116,613
240 : 3,162,020
241 : 3,153,331
243 : 3,128,608
246 : 3,163,023
254 : 3,119,241
256 : 3,125,864
3,128,609
3,129,567
3,130,559
3,134,243
3,139,737
256 : 3,139,738
3,146,607
3,149,476
3,163,024
259 : 3,122,004
3,122,896
3,125,865
262 : 3,152,456
3,159,983
263 : 3,123,987
3,128,610
267 : 3,127,755
268 : 3,149,477
271 : 3,117,427
3,153,914
272 : 3,125,866
275 : 3,122,897
3,131,550
3,135,100
276 : 3,120,111
278 : 3,132,491
3,138,007
283 : 3,116,614
3,116,615
284 : 3,124,940
292 : 3,118,288
293 : 3,146,608
295 : 3,142,162
298 : 3,131,551
3,138,008
299 : 3,125,867
303 : 3,139,739
305 : 3,141,308
3,146,609
3,148,516
3,153,332
315 : 3,138,009
316 : 3,125,868
3,130,560

Class 64

317 : 3,125,869
320 : 3,126,719
3,139,740
3,162,022
323 : 3,145,545
324 : 3,132,492
3,142,970
3,150,503
3,158,006
325 : 3,143,864
331 : 3,119,243
3,130,561
3,156,103
332 : 3,151,471
335 : 3,126,720
339 : 3,118,289
341 : 3,156,104
342 : 3,142,971
344 : 3,127,756
3,135,101
3,147,603
3,159,985
345 : 3,159,011
347 : 3,146,610
354 : 3,133,428
3,143,865
3,144,757
3,159,010
3,159,986
355 : 3,143,866
3,153,915
359 : 3,129,568
369 : 3,120,112
3,122,898
371 : 3,156,105
380 : 3,150,504
391 : 3,151,472
401 : 3,141,309
3,158,007
402 : 3,117,428
3,141,310
3,153,916
404 : 3,130,562
3,130,563
3,131,396
3,136,138
408 : 3,126,721
3,153,917
418 : 3,123,988
419 : 3,117,429
3,122,005
3,122,899
3,135,102
3,137,146
427 : 3,123,989
3,145,546
434 : 3,120,742
440 : 3,161,030
443 : 3,153,918
453 : 3,122,006
3,153,919
454 : 3,137,147
455 : 3,162,023
457 : 3,161,031
459 : 3,140,590
467 : 3,159,012
469 : 3,133,429
3,149,478
471 : 3,134,244
474 : 3,119,244
3,149,479
475 : 3,120,113
3,131,552
476 : 3,158,008
483 : 3,132,493
487 : 3,124,941
3,130,564
490 : 3,134,245
495 : 3,140,591
500 : 3,152,457
503 : 3,133,430
504 : 3,120,743
505 : 3,158,009
506 : 3,118,290
3,131,553
510 : 3,141,311
517 : 3,142,163
525 : 3,158,010

Class 63

5 : 3,136,139
3,153,333
12 : 3,122,007
13 : 3,116,616
14 : 3,158,011
3,163,026
15.6 : 3,150,505
.7 : 3,127,757
23 : 3,122,900
29 : 3,129,569

Class 64

1 : 3,138,010
3,146,611
3,148,517
3,152,458
2 : 3,122,901
3,149,480
3 : 3,152,459
4 : 3,128,611
3,136,140
6 : 3,128,612
7 : 3,125,870
3,142,972
8 : 3,119,245
3,120,744
3,126,722
3,136,141
3,151,473
3,153,920
3,162,024
9 : 3,117,430
3,132,494
3,153,921
10 : 3,117,431
11 : 3,135,103
3,137,148
3,137,149
3,146,612
13 : 3,124,942
14 : 3,120,745
3,149,481
15 : RE.25,543
3,124,943
3,136,142
3,150,506
17 : 3,119,246
3,138,942
3,145,547
3,159,013
21 : 3,120,746
3,128,613
3,133,431
3,133,432
3,162,025
3,162,026
23 : 3,122,902
3,123,990
3,129,570
3,143,867
.5 : 3,128,614
.7 : 3,118,291
.7 : 3,127,758
24 : 3,149,482
26 : 3,116,617
3,136,143
27 : 3,117,432
3,129,571
3,131,554

27 : 3,138,011
3,138,012
3,138,943
3,141,312
3,141,313
3,142,973
3,156,106
3,159,987
28 : 3,126,723
3,153,334
29 : 3,119,247
30 : 3,116,618
3,118,292
3,122,903
3,134,246
3,136,144
31 : 3,116,619

Class 65

1 : 3,142,551
2 : 3,119,678
3,129,083
3,129,084
3,134,659
3,150,946
3,155,475
3 : 3,125,428
3,143,405
3,146,082
4 : 3,148,967
3,149,944
11 : 3,126,268
3,151,963
12 : 3,155,476
14 : 3,152,878
15 : 3,159,475
17 : 3,157,482
18 : 3,121,628
3,128,166
3,144,318
3,145,090
3,151,964
19 : 3,148,044
21 : 3,138,444
3,148,045
3,150,947
3,151,965
22 : 3,151,966
3,163,512
23 : 3,149,945
3,155,477
25 : 3,124,444
3,141,752
3,150,948
27 : 3,123,458
31 : 3,116,991
32 : 3,118,752
3,149,946
3,156,549
33 : 3,149,947
3,163,513
34 : 3,151,967
35 : 3,130,029
36 : 3,122,431
3,128,167
39 : 3,130,028
3,149,948
42 : 3,155,478
43 : 3,120,433
3,141,753
53 : 3,149,949
54 : 3,116,992
58 : 3,131,046
60 : 3,146,083
62 : 3,150,949
3,150,950
70 : 3,155,479
71 : 3,132,017
3,135,593
3,150,951
3,151,968
79 : 3,130,030
83 : 3,127,261
84 : 3,125,429
85 : 3,155,480
95 : 3,148,046
104 : 3,155,481
3,162,520
105 : 3,150,952
106 : 3,123,459
3,136,618
3,144,319
3,148,968
3,162,521
107 : 3,116,993
3,136,619
3,146,084
3,155,482
3,160,491
108 : 3,144,320
3,145,091
109 : 3,129,085

109 : 3,150,953
111 : 3,128,169
114 : 3,125,430
127 : 3,119,679
128 : 3,160,492
133 : 3,160,493
134 : 3,127,262
3,133,803
141 : 3,133,804
142 : 3,129,086
3,133,805
152 : 3,131,047
155 : 3,130,031
157 : 3,134,660
3,140,164
158 : 3,153,582
3,161,493
162 : 3,129,087
163 : 3,155,483
182 : 3,137,556
191 : 3,126,269
203 : 3,155,484
204 : 3,153,583
3,157,483
224 : 3,149,950
225 : 3,147,102
3,162,522
229 : 3,142,552
235 : 3,149,951
260 : 3,129,088
268 : 3,133,806
270 : 3,124,445
3,140,165
277 : 3,141,754
280 : 3,137,557
288 : 3,137,558
3,163,514
289 : 3,162,523
3,163,515
290 : 3,162,524
291 : 3,155,485
302 : 3,132,018
304 : 3,142,553
305 : 3,148,047
319 : 3,129,089
325 : 3,139,332
343 : 3,137,559
347 : 3,149,952
348 : 3,146,085
3,147,103
349 : 3,119,680
3,130,032
3,147,104
351 : 3,145,092
356 : 3,119,681
3,133,807
3,137,560
3,140,166
3,148,969
357 : 3,132,933
360 : 3,141,755
361 : 3,147,105
372 : 3,141,756

Class 66

1 : 3,143,868
9 : 3,122,904
3,124,944
3,153,335
14 : 3,151,474
31 : 3,158,012
42 : 3,122,008
3,124,945
3,148,518
43 : 3,136,145
48 : 3,142,974
3,142,975
3,143,869
3,162,027
49 : 3,159,988
50 : 3,122,905
3,141,314
3,145,548
54 : 3,116,620
3,123,991
56 : 3,158,013
60 : 3,120,114
3,124,946
3,125,871
64 : 3,153,922
70 : 3,159,014
82 : 3,153,336
84 : 3,118,293
3,145,549
85 : 3,140,592
86 : 3,134,247
3,141,315
3,148,519
88 : 3,130,565
107 : 3,149,483
111 : 3,129,572
121 : 3,145,550

123 : 3,159,989
125 : 3,120,115
3,134,248
3,139,741
3,147,604
3,148,520
132 : 3,124,947
136 : 3,157,035
138 : 3,163,027
140 : Re.25,584
3,157,036
145 : 3,120,747
3,154,932
146 : 3,161,032
147 : 3,129,573
148 : 3,134,249
149 : 3,159,015
151 : 3,162,028
154 : 3,141,316
155 : 3,139,742
3,147,605
163 : 3,132,495
166 : 3,116,621
169 : 3,135,104
3,137,150
170 : 3,143,870
171 : 3,130,566
3,131,555
172 : 3,122,906
3,134,250
3,154,933
3,159,990
3,162,029
176 : 3,117,433
177 : 3,141,318
178 : 3,131,556
3,132,496
3,153,923
3,157,037
179 : 3,124,948
193 : 3,118,294
194 : 3,154,934
201 : 3,142,164
202 : 3,132,497

Class 67

3 : 3,146,613
6 : 3,138,944
7.1 : 3,116,622
.1 : 3,118,295
.1 : 3,122,907
.1 : 3,123,992
.1 : 3,130,567
.1 : 3,130,568
.1 : 3,132,498
.1 : 3,132,499
.1 : 3,134,251
.1 : 3,138,945
.1 : 3,139,743
.1 : 3,140,593
.1 : 3,141,317
.1 : 3,143,871
.1 : 3,144,758
.1 : 3,148,521
.1 : 3,148,522
.1 : 3,149,484
.1 : 3,150,507
.1 : 3,150,508
.1 : 3,150,509
.1 : 3,152,460
.1 : 3,154,935
.1 : 3,157,038
.1 : 3,159,991
.1 : 3,161,033
.1 : 3,161,034
20.1 : 3,154,936
21 : 3,121,316
22 : 3,150,510
31 : 3,116,623
3,123,993
3,156,107
3,158,014
53 : 3,158,015
70 : 3,162,030
88 : 3,130,569

Class 68

4 : 3,116,624
3,145,551
5 : 3,126,724
3,137,151
3,137,152
3,140,594
3,162,031
12 : 3,116,625
3,122,009
3,122,908
3,128,615
3,133,433
3,137,153
3,140,595

12 : 3,142,976
3,148,523
3,152,461
3,152,462
3,152,463
3,153,924
3,163,028
3,163,029
13 : 3,130,570
16 : 3,118,296
17 : 3,132,500
3,142,165
3,145,552
3,159,016
18 : 3,132,501
3,133,286
3,145,553
3,162,032
20 : 3,139,744
22 : 3,145,554
3,162,033
23 : 3,116,626
3,121,317
3,122,010
3,132,502
3,138,946
3,144,759
3,150,511
24 : Re.25,693
3,129,574
27 : 3,126,725
43 : 3,136,146
3,159,017
62 : 3,128,616
96 : 3,126,726
132 : 3,129,575
134 : 3,117,434
143 : 3,129,576
144 : 3,125,872
177 : 3,128,617
181 : 3,117,435
3,138,947
183 : 3,117,436
184 : 3,129,577
3,150,512
3,152,464
189 : 3,145,555
198 : 3,157,039
205 : 3,122,011
3,123,994
3,163,030
206 : 3,159,992
207 : 3,118,297
3,152,465
214 : 3,151,475
3,152,466
219 : 3,122,909

Class 69

4 : 3,120,273
6.5 : 3,137,154
.5 : 3,163,031
9.5 : 3,133,434
10 : 3,163,032
19 : 3,147,606
21 : 3,144,760
37 : 3,140,596
3,145,556
42 : 3,116,627
3,122,910
3,129,578

Class 70

14 : 3,124,949
16 : 3,146,614
38 : 3,117,437
3,143,872
57 : 3,157,040
58 : 3,130,571
63 : 3,125,873
3,154,937
64 : 3,147,607
69 : 3,121,318
70 : 3,162,034
71 : 3,135,105
74 : 3,152,467
75 : 3,125,874
81 : 3,141,319
82 : 3,158,016
90 : 3,136,147
3,140,597
93 : 3,125,875
3,134,252
3,161,035
97 : 3,126,727
100 : 3,118,298
3,120,748
3,163,033
107 : 3,129,579
3,148,524
3,148,525

107 : 3,159,993
119 : 3,158,017
134 : 3,154,938
140 : 3,122,012
146 : 3,123,995
3,125,876
3,147,608
3,159,994
147 : 3,143,873
150 : 3,121,319
3,141,320
3,161,036
169 : 3,126,728
3,136,148
3,161,037
186 : 3,132,503
187 : 3,136,149
216 : 3,157,041
224 : 3,125,877
3,149,485
232 : 3,120,116
264 : 3,124,950
271 : 3,134,253
272 : 3,119,248
277 : 3,134,254
3,144,761
279 : 3,142,166
3,157,042
330 : 3,137,155
334 : 3,120,117
339 : 3,127,759
3,157,043
364 : 3,128,618
3,137,156
366 : 3,148,526
370 : 3,150,513
379 : 3,143,874
382 : 3,143,875
3,151,476
383 : 3,124,951
3,125,878
3,130,572
384 : 3,149,486
394 : 3,149,487
411 : 3,142,167
416 : 3,142,168
417 : 3,130,573
419 : 3,163,034
421 : 3,151,477
455 : 3,122,013
456 : 3,119,249
3,132,504
3,137,157
3,147,609
458 : 3,141,321
459 : 3,126,729
3,146,615
885 : 3,125,690

Class 71

1 : 3,130,033
3,130,034
3,131,048
3,132,934
3,137,561
3,140,938
2.2 : 3,130,035
.2 : 3,152,879
.2 : 3,157,484
.3 : 3,117,850
.3 : 3,117,851
.3 : 3,121,003
.3 : 3,123,460
.3 : 3,124,446
.3 : 3,124,447
.3 : 3,134,661
.3 : 3,134,662
.3 : 3,142,554
.3 : 3,142,555
.3 : 3,146,086
.3 : 3,151,969
.3 : 3,160,494
.3 : 3,161,498
.4 : 3,122,432
.4 : 3,124,448
.4 : 3,130,036
.4 : 3,143,407
.4 : 3,149,953
.4 : 3,156,550
.4 : 3,156,551
.4 : 3,157,485
.4 : 3,157,486
.4 : 3,161,494
.5 : 3,116,994
.5 : 3,117,852
.5 : 3,117,853
.5 : 3,118,753
.5 : 3,118,754
.5 : 3,123,461
.5 : 3,123,462
.5 : 3,126,270
.5 : 3,126,271

2.5 : 3,132,019
.5 : 3,134,663
.5 : 3,136,620
.5 : 3,137,562
.5 : 3,138,445
.5 : 3,141,757
.5 : 3,142,556
.5 : 3,143,408
.5 : 3,149,954
.5 : 3,150,954
.5 : 3,152,880
.5 : 3,152,881
.5 : 3,152,882
.5 : 3,152,883
.5 : 3,154,396
.5 : 3,155,486
.5 : 3,155,487
.5 : 3,155,488
.5 : 3,156,552
.5 : 3,161,495
.6 : 3,116,995
.6 : 3,117,854
.6 : 3,117,855
.6 : 3,118,755
.6 : 3,118,756
.6 : 3,119,682
.6 : 3,120,434
.6 : 3,123,463
.6 : 3,125,431
.6 : 3,125,432
.6 : 3,125,433
.6 : 3,127,263
.6 : 3,128,170
.6 : 3,128,171
.6 : 3,129,090
.6 : 3,130,037
.6 : 3,134,664
.6 : 3,134,665
.6 : 3,137,563
.6 : 3,138,446
.6 : 3,139,333
.6 : 3,140,167
.6 : 3,141,758
.6 : 3,143,409
.6 : 3,148,048
.6 : 3,149,955
.6 : 3,151,970
.6 : 3,152,884
.6 : 3,154,397
.6 : 3,154,398
.6 : 3,156,553
.6 : 3,158,460
.6 : 3,161,496
.6 : 3,161,497
.6 : 3,163,516
.7 : 3,117,856
.7 : 3,124,449
.7 : 3,126,272
.7 : 3,133,808
.7 : 3,133,809
.7 : 3,133,810
.7 : 3,134,666
.7 : 3,148,049
.7 : 3,154,399
.7 : 3,154,400
.7 : 3,154,401
.7 : 3,154,402
.7 : 3,156,554
.7 : 3,156,555
.7 : 3,158,461
.7 : 3,159,476
.7 : 3,162,525
4 : 3,158,462
9 : 3,138,447
3,138,448
3,141,759
3,142,557
11 : 3,135,594
23 : 3,146,087
24 : 3,138,449
25 : 3,135,595
26 : 3,163,517
28 : 3,125,434
3,129,091
3,150,955
29 : 3,119,683
3,130,038
3,149,956
3,150,956
30 : 3,142,558
34 : 3,132,020
37 : 3,130,039
3,150,957
3,155,489
39 : 3,121,004
3,132,935
3,149,957
3,157,487
42 : 3,155,490
43 : 3,117,857
52 : 3,160,495
54 : 3,148,970
59 : 3,117,858

59 : 3,144,321
62 : 3,137,564
3,145,093
3,159,477
63 : 3,133,811
64 : 3,125,435
3,129,092
3,135,596
3,137,565
3,143,410

Class 73

1 : 3,127,760
3,130,574
3,141,322
3,142,169
3,142,977
3,145,557
3,147,610
3,156,108
3,158,018
3 : 3,120,118
3,125,879
3,138,013
3,148,527
4 : 3,133,435
3,147,611
3,148,528
3,159,995
7 : 3,121,320
3,134,255
8 : 3,152,468
9 : 3,116,628
3,127,761
3,153,925
10 : 3,129,580
3,136,150
3,145,558
11 : 3,148,529
3,157,044
12 : 3,130,575
3,142,978
3,148,530
3,153,926
15 : 3,117,438
3,123,996
3,142,170
3,142,171
3,142,979
3,148,531
.4 : 3,161,038
.6 : 3,134,256
.6 : 3,135,106
.6 : 3,152,469
.6 : 3,159,018
17 : 3,119,250
3,120,119
3,122,911
3,122,912
3,131,557
3,133,436
3,135,107
3,143,876
3,150,514
3,150,515
3,153,337
3,161,039
19 : 3,150,516
23 : 3,118,299
3,118,300
3,119,251
3,119,252
3,120,749
3,121,321
3,122,014
3,122,913
3,124,952
3,126,731
3,126,732
3,127,762
3,128,619
3,159,019
.1 : 3,135,108
.1 : 3,139,745
.1 : 3,140,598
.1 : 3,141,323
.1 : 3,144,762
.1 : 3,146,616
.1 : 3,148,532
.1 : 3,150,517
.1 : 3,152,470
.1 : 3,158,019
.1 : 3,159,020
.1 : 3,159,996
.1 : 3,162,035
.1 : 3,162,036
24 : 3,120,750
27 : 3,134,257
3,138,948
28 : 3,126,730
3,127,763
30 : 3,117,439

Class 73 – Con.

30 : 3,120,751
3,124,953
3,137,158
3,139,746
32 : 3,117,440
3,145,559
35 : 3,121,322
3,126,733
3,159,997
37 : 3,117,441
3,156,109
.5 : 3,127,764
.5 : 3,147,615
.9 : 3,154,939
38 : 3,116,629
3,121,323
3,138,014
3,139,747
3,140,599
3,152,471
3,158,020
3,162,037
40 : 3,126,734
3,131,558
3,132,505
3,138,949
.5 : 3,132,506
.5 : 3,154,940
.7 : 3,159,021
.7 : 3,159,998
45.2 : 3,132,507
46 : 3,152,472
3,161,040
49.1 : 3,137,159
.2 : 3,151,478
.7 : 3,145,560
.7 : 3,159,022
.8 : 3,163,035
52 : 3,132,508
3,137,160
53 : 3,119,253
3,120,752
3,133,437
3,141,324
3,145,561
3,147,612
3,150,518
3,159,999
55 : 3,116,630
3,137,161
3,138,950
56 : 3,116,631
3,153,927
59 : 3,122,914
3,126,735
3,148,533
3,162,038
60 : 3,128,620
61 : 3,138,015
3,148,534
3,160,000
63 : 3,144,763
64 : 3,143,877
65 : 3,161,041
66 : 3,130,576
3,136,151
67 : 3,139,748
.1 : 3,132,509
.1 : 3,153,338
.1 : 3,162,039
.5 : 3,120,120
.5 : 3,121,324
.5 : 3,130,577
.5 : 3,148,535
.7 : 3,121,325
.7 : 3,121,326
.7 : 3,132,510
.7 : 3,140,600
.7 : 3,147,613
.8 : 3,129,581
.8 : 3,135,109
.8 : 3,144,764
.8 : 3,148,536
.8 : 3,153,928
.8 : 3,156,110
.8 : 3,159,023
.9 : 3,133,438
.9 : 3,156,111
71.2 : 3,141,326
.3 : 3,159,024
.4 : 3,121,327
.4 : 3,122,015
.4 : 3,148,537
.5 : 3,119,254
.5 : 3,137,162
.6 : 3,141,325
.6 : 3,142,172
.6 : 3,157,045
73 : 3,117,442
3,146,617
76 : 3,144,765
3,145,562
78 : 3,116,632
3,150,519
80 : 3,136,152
3,150,520
3,150,521
81 : 3,120,753
82 : 3,159,025
83 : 3,119,255
3,123,998
3,124,954
3,156,112
3,159,026
84 : 3,148,538
86 : 3,150,522
3,161,042
87 : 3,139,749
88 : 3,136,154
3,148,539
3,161,043
3,161,044
.5 : 3,118,301
.5 : 3,130,578
.5 : 3,142,173
.5 : 3,146,618
.5 : 3,160,001
.5 : 3,161,045
89 : 3,129,583
3,136,158
3,138,952
3,140,601
91 : 3,138,016
93 : 3,138,017
94 : 3,127,765
97 : 3,122,916
3,142,980
99 : 3,122,915
100 : 3,130,579
3,140,602
3,142,174
3,143,878
3,158,021
101 : 3,116,633
3,142,175
3,150,523
3,157,046
102 : 3,160,002
103 : 3,117,443
3,153,929
3,163,036
104 : 3,162,040
105 : 3,120,121
3,123,999
3,158,022
114 : 3,118,302
115 : 3,135,110
116 : 3,122,917
3,136,155
3,136,156
3,138,018
3,138,953
3,142,176
3,156,113
3,157,047
118 : 3,130,580
3,151,479
119 : 3,117,444
3,152,473
121 : 3,146,619
133 : 3,156,114
134 : 3,116,634
3,135,111
3,138,954
3,145,563
3,153,930
135 : 3,119,256
136 : 3,128,622
3,130,581
3,137,163
3,154,941
3,160,003
3,162,041
3,163,037
139 : 3,142,177
141 : 3,116,635
3,120,754
3,127,766
3,129,584
3,132,511
3,135,112
3,136,157
3,139,750
3,141,327
3,142,981
3,147,616
3,149,488
3,151,480
3,151,481
3,152,474
141 : 3,161,046
143 : 3,121,328
144 : 3,149,489
146 : 3,119,257
3,142,178
.3 : 3,140,603
147 : 3,118,303
3,121,329
3,138,019
3,159,027
149 : 3,129,585
3,134,258
3,146,620
150 : 3,120,755
3,124,955
151 : 3,149,490
3,153,339
.5 : 3,117,445
152 : 3,120,122
154 : 3,122,016
155 : 3,158,023
3,162,042
3,163,038
156 : 3,154,942
159 : 3,129,586
3,141,328
3,151,482
3,151,483
3,159,028
160 : 3,140,604
3,141,329
3,154,943
161 : 3,138,020
162 : 3,127,767
167 : 3,122,919
3,127,768
3,138,021
168 : 3,116,636
3,119,258
3,144,766
170 : 3,141,330
3,159,029
171 : 3,127,769
172 : 3,116,637
3,147,617
178 : 3,116,638
3,126,736
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3,133,439
3,140,605
3,142,982
3,148,540
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3,162,043
3,163,039
180 : 3,120,756
181 : 3,119,259
3,126,737
3,160,005
182 : 3,120,123
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187 : 3,137,164
189 : 3,119,260
3,119,261
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190 : 3,142,983
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193 : 3,128,624
194 : 3,116,639
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3,144,767
3,145,564
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198 : 3,156,115
200 : 3,135,113
3,135,114
3,145,565
204 : 3,147,618
205 : 3,126,739
3,140,606
3,143,879
3,143,880
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209 : 3,128,625
3,133,440
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3,143,881
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210 : 3,117,446
3,133,441
211 : 3,124,956
3,129,587
212 : 3,125,880
212 : 3,163,040
215 : 3,124,000
223 : 3,125,881
3,135,115
3,141,332
224 : 3,122,920
228 : 3,119,262
3,138,955
3,147,620
229 : 3,131,561
3,161,048
230 : 3,136,159
3,145,566
231 : 3,119,263
3,121,330
3,135,116
3,142,179
3,143,882
3,144,768
3,144,769
3,153,341
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232 : 3,160,008
233 : 3,142,985
3,158,024
247 : 3,159,030
3,159,031
251 : 3,126,740
258 : 3,116,640
267 : 3,161,049
272 : 3,140,607
3,158,025
277 : 3,137,167
281 : 3,119,264
3,132,513
290 : 3,119,265
3,126,741
3,126,742
3,133,442
291 : 3,120,124
293 : 3,120,125
295 : 3,120,757
3,132,514
3,132,515
3,138,023
3,145,567
3,161,050
299 : 3,130,583
3,132,516
3,133,443
3,141,333
3,153,931
3,161,051
300 : 3,161,053
301 : 3,153,342
302 : 3,156,116
3,161,052
304 : 3,119,266
3,119,267
3,140,608
3,157,048
3,161,054
308 : 3,118,304
3,138,024
3,148,542
3,152,478
309 : 3,153,932
311 : 3,140,609
312 : 3,162,044
313 : 3,154,946
3,161,055
316 : 3,138,956
317 : 3,137,168
321 : 3,140,610
322 : 3,122,017
.5 : 3,124,001
331 : 3,119,268
3,125,882
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335 : 3,152,475
3,157,049
336 : 3,124,002
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.5 : 3,134,259
.5 : 3,161,056
337 : 3,135,117
339 : 3,136,160
3,137,169
3,138,025
341 : 3,120,758
3,130,584
3,138,957
343 : 3,147,621
.5 : 3,119,269
345 : 3,127,771
349 : 3,139,751
350 : 3,144,770
355 : 3,117,447
3,137,170
3,138,026
3,145,568
3,146,622
3,153,343
355 : 3,160,009
3,162,045
358 : 3,122,921
3,140,611
359 : 3,120,126
3,126,743
3,132,517
3,139,752
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3,159,032
360 : 3,156,118
361 : 3,158,026
362 : 3,117,448
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3,136,161
3,139,753
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3,158,027
3,162,046
363 : 3,121,331
.5 : 3,117,449
.5 : 3,160,010
.5 : 3,163,043
.7 : 3,122,018
.9 : 3,124,003
.9 : 3,161,057
368 : 3,135,118
3,144,771
3,163,044
.2 : 3,132,518
.2 : 3,163,045
.3 : 3,131,563
.3 : 3,153,933
.3 : 3,159,033
.7 : 3,144,772
374 : 3,117,450
376 : 3,161,058
378.3 : 3,130,585
379 : 3,117,451
3,160,011
380 : 3,124,958
381 : 3,128,627
384 : 3,160,012
385 : 3,127,772
386 : 3,124,004
3,154,948
3,160,013
388 : 3,142,988
3,152,476
3,153,934
393 : 3,149,492
3,154,949
396 : 3,134,260
398 : 3,121,332
3,122,922
3,128,628
3,129,589
3,134,261
3,137,171
3,138,027
3,139,754
3,140,612
3,147,622
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3,161,061
400 : 3,122,923
3,138,958
3,145,569
401 : 3,118,305
3,120,127
3,122,924
3,134,262
3,138,959
3,150,524
406 : 3,130,586
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407 : 3,120,759
3,124,959
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3,140,613
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3,156,119
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3,162,047
410 : 3,119,270
3,124,960
3,140,614
3,141,334
3,152,477
411 : 3,121,333
3,150,526
414 : 3,143,883
416 : 3,138,028
416 : 3,141,335
418 : 3,147,623
3,163,046
419 : 3,145,570
420 : 3,162,048
421 : 3,120,128
3,121,334
3,133,444
3,153,344
3,156,120
3,162,049
422 : 3,116,642
3,139,755
3,140,615
3,149,493
3,160,015
3,160,016
3,162,050
3,163,047
423 : 3,122,019
3,127,773
3,128,629
3,134,263
3,137,174
3,153,345
3,158,030
424 : 3,117,452
3,119,271
3,129,590
425 : 3,125,883
.2 : 3,143,884
.2 : 3,157,050
.4 : 3,118,306
.4 : 3,118,307
.4 : 3,119,272
.4 : 3,137,172
.4 : 3,141,336
429 : 3,134,264
431 : 3,143,885
3,152,480
3,161,062
551 : 3,124,963

Class 74

1 : 3,131,567
3,148,549
3,159,038
.5 : 3,132,522
2 : 3,121,338
3,122,928
3,130,590
3,142,992
3,144,775
3,144,776
3,145,573
3.5 : 3,151,489
.54: 3,154,951
5 : 3,126,747
3,127,776
3,129,593
3,131,568
3,132,523
3,142,181
3,142,182
3,154,952
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.12: 3,129,594
.12: 3,142,184
.22: 3,124,007
.34: 3,131,569
.34: 3,142,994
.34: 3,143,892
.34: 3,143,893
.37: 3,136,164
.4 : 3,135,120
.4 : 3,147,626
.41: 3,157,053
.43: 3,152,486
.44: 3,147,628
.46: 3,130,591
.47: 3,160,019
.47: 3,161,066
.5 : 3,132,524
.5 : 3,134,265
.5 : 3,136,163
.5 : 3,156,121
.6 : 3,125,886
.6 : 3,135,121
.6 : 3,139,758
.6 : 3,142,993
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Class 75

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Class 75—Con.

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3,162,529
157.5 : 3,132,939
161 : 3,134,669
162 : 3,117,002
3,147,113
3,156,559
164 : 3,117,003
165 : 3,136,633
3,136,634
3,158,471
166 : 3,126,278
3,147,114
168 : 3,119,689
3,125,443
3,125,444
3,146,096
3,157,496
169 : 3,130,044
170 : 3,130,045
3,135,603
3,145,099
171 : 3,118,763
3,121,629
3,122,433
3,127,265
3,134,670
3,148,054
3,151,981
3,155,501
3,160,500
172 : 3,134,671
3,137,571
173 : 3,135,601
3,159,481
174 : 3,125,445
3,128,178
3,132,940
3,136,635
3,140,943
3,150,970
3,152,891
3,156,560
3,161,503
175 : 3,146,097
.5 : 3,147,115
176 : 3,137,572
3,138,456
3,138,457
3,150,971
3,160,501
177 : 3,124,454
3,125,446
3,148,055
3,150,972
178 : 3,146,098
200 : 3,120,436
3,121,630
3,126,279
3,140,173
3,140,944
3,144,328
3,145,100
3,158,472
3,159,482
3,160,502
201 : 3,123,470
3,143,413
3,145,101
203 : 3,144,329
204 : 3,118,764
3,141,768
3,157,497
206 : 3,148,056
3,148,981
3,158,473
3,161,504
3,163,527
208 : 3,123,471
3,142,559
3,142,560
3,146,099
3,150,973
3,150,974
214 : 3,121,631
3,122,434
3,124,455
3,145,102
3,145,103
3,150,975
3,152,892
3,155,502
3,158,474
3,162,530
222 : 3,141,769
223 : 3,152,893
3,163,528
226 : 3,119,690
3,144,330
3,153,590
3,157,498
3,162,531

Class 76

37 : 3,138,973
3,147,644
40 : 3,139,774
86 : 3,149,506
89.1 : 3,128,644
101 : 3,124,975
3,130,609
3,132,540
3,142,204
104 : 3,125,902
3,162,065
107 : 3,129,612
3,141,357
3,141,358
3,145,586
3,151,504
3,152,492
108 : Re.25,684
3,117,471
3,118,324
3,127,794
112 : 3,117,472
3,119,284
3,122,030
3,154,972

Class 77

1 : 3,143,900
2 : 3,131,583
3,157,068
3 : 3,127,795
3,131,584
3,149,507
4 : 3,124,015
3,124,976
3,138,041
3,150,546
5 : 3,116,652
3,119,285
3,128,645
3,132,541
3,133,456
3,133,457
3,154,973
3,158,043
3,159,059
7 : 3,135,137
3,141,359
3,141,360
11 : 3,124,977
20 : 3,128,646
21 : 3,120,135
3,124,016
23 : 3,124,978
24 : 3,124,017
3,134,276
25 : Re.25,670
3,129,613
3,138,974
26 : 3,138,042
27 : 3,156,137
32.1 : 3,118,325
.2 : 3,120,136
.2 : 3,143,901
.2 : 3,145,587
.2 : 3,163,057
.7 : 3,126,766
33.4 : 3,126,767
.5 : 3,124,979
.5 : 3,145,588
.5 : 3,158,044
34.7 : 3,160,033
36 : 3,151,505
38 : 3,142,205
55 : 3,119,286
3,129,614
3,137,184
3,143,902
57 : 3,121,350
3,128,647
58 : 3,116,653
3,120,765
3,122,031
3,124,980
3,125,903
3,129,615
3,131,585
3,132,542
3,138,043
3,144,792
3,146,641
3,147,645
3,148,561
58 : 3,152,493
3,153,354
3,154,974
3,159,060
59 : 3,122,032
3,159,061
61 : 3,134,277
62 : 3,119,287
3,120,766
3,120,767
3,127,796
3,138,975
3,145,589
3,148,562
3,158,045
3,162,066
63 : 3,124,018
64 : 3,125,904
3,126,768
3,135,138
3,153,355
65 : 3,147,646
67 : 3,116,654
3,121,351
68 : 3,153,356
69 : 3,162,067
71 : 3,120,768
73 : 3,119,288
3,138,044
.5 : 3,122,947
.5 : 3,132,543
77 : 3,130,610

Class 78

1 : 3,149,508
3,154,975
9 : 3,133,458
13 : 3,118,326
3,124,019
3,138,976
3,142,206
3,143,007
3,154,976
3,154,977
3,158,046
14 : 3,120,137
15 : 3,154,978
17 : Re.25,676
3,120,769
3,143,008
3,158,047
20 : 3,130,611
21 : 3,135,139
3,149,509
22 : 3,146,642
23 : 3,141,361
25 : 3,157,069
38 : 3,122,033
39 : 3,126,769
42 : 3,135,140
3,157,070
3,158,048
45 : 3,121,352
46 : 3,122,948
3,124,981
3,138,977
3,143,903
3,147,647
47 : 3,122,034
3,130,612
3,138,045
48 : 3,125,905
49 : 3,122,035
3,154,979
53 : 3,135,141
61 : 3,136,181
3,139,775
82 : 3,116,655
3,120,138
3,121,353
3,125,906
3,128,648
3,128,649
3,132,544
3,133,459
3,134,278
3,149,510
3,162,068
96 : 3,126,770
3,129,616
3,135,142
99 : 3,118,327
3,120,770
3,138,978

Class 80

1 : 3,136,182
3 : 3,148,563
3,160,034
4 : 3,163,058
5.1 : 3,119,289
6 : 3,145,590
6 : 3,148,564
3,149,511
8 : 3,117,473
3,139,776
11 : 3,118,328
3,120,139
3,160,036
12 : 3,133,460
13 : 3,118,329
16 : 3,142,207
3,159,062
18 : 3,143,009
19 : 3,145,591
22 : 3,132,545
31.1 : 3,135,143
.1 : 3,146,643
.1 : 3,151,506
.1 : 3,152,494
.1 : 3,160,037
32 : 3,124,020
3,151,507
3,162,069
33 : 3,136,183
34 : 3,142,208
35 : 3,122,949
3,129,617
3,129,618
3,148,565
3,151,508
3,153,954
38 : 3,128,650
3,138,979
3,147,648
3,159,063
40 : 3,138,980
3,143,010
3,153,955
42 : 3,128,651
43 : 3,136,184
3,147,649
48 : 3,150,547
3,157,071
51 : 3,132,546
3,157,072
53 : 3,156,138
54 : 3,134,279
56 : 3,121,354
3,124,982
3,132,547
3,143,011
3,146,644
3,147,650
3,157,073
3,158,049
3,162,070
57 : 3,130,613
58 : 3,143,012
60 : 3,118,330
3,130,614
3,138,981
3,138,982
3,150,548
61 : 3,137,185
3,149,512
62 : 3,136,185
3,149,513

Class 81

1 : 3,117,474
3 : 3,125,907
3,134,280
3,137,186
3,153,956
3,163,059
.1 : 3,120,140
.1 : 3,135,144
.3 : 3,140,622
.3 : 3,163,060
.32: 3,159,064
.4 : 3,120,771
.4 : 3,143,904
.44: 3,122,950
.44: 3,134,281
.46: 3,126,771
.8 : 3,161,085
5.1 : 3,153,957
.1 : 3,160,035
8.1 : 3,130,615
.1 : 3,149,514
9.3 : 3,161,086
.5 : 3,122,036
.5 : 3,122,037
.5 : 3,124,021
.5 : 3,125,908
.5 : 3,125,909
.5 : 3,128,652
.5 : 3,130,616
.5 : 3,139,777
.5 : 3,143,013
.5 : 3,146,645
.5 : 3,151,509
.5 : 3,151,510
.5 : 3,161,087
9.5 : 3,161,088
.51: 3,135,145
.51: 3,139,778
.51: 3,153,358
.51: 3,153,958
.51: 3,154,980
13 : 3,161,089
15 : 3,117,475
3,120,772
3,120,773
3,120,774
3,126,772
3,126,773
3,128,653
3,128,654
3,133,461
3,135,146
3,136,186
3,136,187
3,142,209
3,147,651
3,153,357
3,153,959
3,154,981
3,154,982
3,156,139
.6 : 3,144,793
.7 : 3,122,951
.7 : 3,145,592
.8 : 3,136,188
.8 : 3,156,140
52.3 : 3,129,619
.3 : 3,145,593
.3 : 3,157,074
.3 : 3,158,050
.35: 3,135,147
.4 : Re.25,547
.4 : 3,131,586
.4 : 3,137,187
.4 : 3,140,623
.5 : 3,132,548
53 : 3,122,952
3,151,511
3,152,495
3,156,141
3,158,051
3,161,090
54 : 3,124,983
3,156,142
3,158,052
3,162,071
55 : 3,128,655
3,162,072
56 : 3,144,794
57 : 3,124,022
3,132,549
3,133,462
3,138,983
3,140,624
3,141,362
3,142,210
3,147,652
58.3 : 3,127,797
62 : 3,127,799
3,161,091
63 : 3,140,625
3,145,594
64 : 3,124,984
65 : 3,133,463
71 : 3,127,798
3,148,566
90 : 3,121,355
3,151,512
97 : 3,148,567
98 : 3,117,476
3,128,656
119 : 3,121,356
121 : 3,125,910
125 : 3,126,774
3,142,211
3,145,595
128 : 3,119,290
3,141,363
3,161,092
165 : 3,125,911
166 : 3,127,800
177 : 3,148,568
3,156,143
3,161,093
184 : 3,138,984
186 : 3,124,023
313 : 3,157,075
318 : 3,126,775
351 : 3,118,331
379 : 3,116,656
383.5 : 3,142,212
412 : 3,161,094
423 : 3,132,550

Class 82

1 : 3,135,148
3,140,626
3,153,960

2 : 3,124,985
3,125,912
3,163,061
.5 : 3,118,332
.5 : 3,132,551
.7 : 3,131,587
.7 : 3,147,653
3 : 3,124,986
3,158,053
4 : 3,124,024
3,141,364
3,141,365
3,143,905
3,147,654
3,157,076
5 : 3,121,357
3,130,617
3,145,596
3,160,038
.5 : 3,159,065
12 : 3,158,054
13 : 3,160,039
14 : 3,119,291
3,121,358
3,128,657
3,132,552
3,133,464
3,142,213
3,142,214
3,145,597
3,145,598
3,145,599
3,146,646
3,146,647
3,147,655
3,150,549
3,153,359
3,156,144
3,161,095
15 : 3,156,145
17 : 3,120,141
20 : 3,128,658
3,129,620
21 : 3,136,189
3,160,040
22 : 3,120,775
3,148,569
23 : 3,162,073
24 : 3,136,190
3,138,046
3,146,648
3,156,146
3,161,096
3,162,074
28 : 3,125,913
3,135,149
3,154,983
29 : 3,127,801
31 : 3,160,041
32 : 3,157,077
33 : 3,120,776
34 : 3,124,025
3,124,987
3,154,984
3,160,042
35 : 3,144,795
36 : 3,127,802
3,141,366
3,142,215
3,145,600
3,157,078
3,162,075
3,163,062
37 : 3,130,618
3,134,282
3,140,627
3,143,906
40 : 3,140,628
3,143,907
3,152,496
46 : 3,128,659
47 : 3,118,333
3,125,914
3,131,588
3,157,079
48 : 3,161,097
53 : 3,148,570
54 : 3,157,080
57 : 3,144,796
59 : 3,129,621
63 : 3,132,553
83 : 3,121,359
86 : 3,125,915
101 : 3,143,014
3,163,063

Class 83

1 : 3,145,601
3,163,064
2 : 3,154,985
3 : 3,117,477
4 : 3,133,465
5 : 3,156,147
7 : 3,122,953
11 : 3,120,777
3,140,629
12 : 3,136,191
3,160,043
13 : 3,126,776
3,150,550
3,157,081
18 : 3,152,497
19 : 3,160,044
23 : 3,157,082
24 : 3,122,038
3,149,515
34 : 3,156,148
36 : 3,129,622
40 : 3,152,498
42 : 3,122,954
43 : 3,153,961
51 : 3,152,499
54 : 3,120,142
62 : 3,124,026
3,145,602
63 : 3,160,045
71 : 3,118,334
3,122,039
72 : 3,118,335
3,163,065
76 : 3,159,066
79 : 3,153,962
80 : 3,157,083
81 : 3,127,803
82 : 3,148,571
86 : 3,146,649
87 : 3,144,797
3,159,067
90 : 3,161,098
91 : 3,143,015
3,146,650
3,163,066
92 : 3,116,657
94 : 3,122,040
3,124,988
3,135,150
96 : 3,125,916
3,127,804
3,143,908
97 : 3,149,516
98 : 3,124,027
3,130,619
3,143,016
3,158,055
99 : 3,162,077
100 : 3,118,336
106 : 3,138,047
3,138,048
3,159,068
108 : 3,161,099
116 : 3,147,656
117 : 3,124,990
122 : 3,162,076
123 : 3,154,986
124 : 3,119,292
3,137,188
130 : 3,160,046
131 : 3,119,293
133 : 3,129,623
140 : 3,125,917
3,130,620
3,140,630
3,147,657
142 : 3,138,985
145 : 3,148,572
146 : 3,139,779
150 : 3,125,918
152 : 3,154,987
154 : 3,145,603
155 : 3,122,041
3,128,660
3,149,517
167 : 3,143,909
168 : 3,135,151
170 : 3,141,367
174 : 3,119,294
3,126,777
176 : 3,149,518
3,156,149
177 : 3,126,778
191 : 3,153,360
3,153,963
3,162,078
201 : 3,118,337
3,125,919
3,128,661
3,145,604
3,163,067
202 : 3,117,478
203 : 3,153,361
205 : 3,137,189
208 : 3,160,047
209 : 3,149,519
210 : 3,137,190
3,158,056
211 : 3,133,466
3,143,017
214 : 3,143,018
215 : 3,122,042
216 : 3,154,988
224 : 3,143,019
233 : 3,122,955
235 : 3,148,573
237 : 3,163,068
241 : 3,136,192
262 : 3,146,651
277 : 3,146,652
278 : 3,116,658
286 : 3,143,020
287 : 3,162,079
288 : 3,149,520
290 : 3,119,295
292 : 3,121,360
298 : 3,128,662
3,156,150
300 : 3,129,624
302 : 3,140,631
3,152,500
3,159,069
303 : 3,163,069
305 : 3,136,194
308 : 3,117,479
3,142,216
3,152,501
310 : 3,140,632
311 : 3,143,910
3,163,070
315 : 3,121,361
320 : 3,149,521
3,152,502
321 : 3,159,070
329 : 3,143,021
337 : 3,150,552
338 : 3,126,779
341 : 3,143,022
345 : 3,135,152
346 : 3,151,513
347 : 3,147,658
350 : 3,143,911
354 : 3,146,653
3,151,514
355 : 3,153,362
3,158,057
3,162,080
361 : 3,122,956
368 : 3,146,654
375 : 3,142,217
380 : 3,136,193
3,137,191
3,151,515
390 : 3,152,503
3,154,989
3,160,048
395 : 3,134,283
399 : 3,124,989
402 : 3,140,633
403 : 3,161,100
404 : 3,121,362
407 : 3,153,964
410 : 3,144,798
411 : 3,122,043
3,146,655
3,159,071
413 : 3,134,284
3,145,605
414 : 3,154,990
419 : 3,152,504
427 : 3,153,363
428 : 3,121,363
433 : 3,163,071
443 : 3,122,957
451 : 3,154,991
3,161,101
454 : 3,120,143
3,125,920
455 : 3,137,192
456 : 3,127,805
3,162,081
461 : 3,118,338
3,138,049
467 : 3,134,285
3,136,195
468 : 3,152,505
471 : 3,130,621
472 : 3,143,023
497 : 3,143,024
500 : 3,122,958
3,126,780
510 : 3,142,218
520 : 3,117,480
522 : 3,149,522
525 : 3,153,965
529 : 3,121,364
3,130,622
534 : 3,149,523
554 : 3,140,634
555 : 3,144,799
560 : 3,148,574
571 : 3,153,966
572 : 3,132,554
3,143,912
577 : 3,145,606
578 : 3,145,607
582 : 3,133,467
587 : 3,154,992
588 : 3,122,044
590 : 3,122,045
3,130,623
600 : 3,122,046
622 : 3,119,296
624 : 3,129,625
625 : 3,157,084
628 : 3,126,781
633 : 3,120,778
635 : 3,131,589
3,150,551
639 : 3,142,219
3,163,072
641 : 3,143,025
657 : 3,157,085
669 : 3,128,663
675 : 3,153,967
685 : 3,137,193
686 : 3,143,026
687 : 3,149,524
699 : 3,146,656
700 : 3,134,286
3,148,575

Class 84

1.01: 3,126,436
.01: 3,139,475
.01: 3,155,760
.01: 3,161,713
.03: 3,140,336
.03: 3,141,056
.03: 3,146,290
.11: 3,136,838
.12: 3,160,694
.13: 3,139,476
.15: 3,147,332
.16: 3,137,754
.17: 3,118,961
.18: 3,124,635
.18: 3,140,337
.18: 3,150,227
.19: 3,151,203
.24: 3,146,291
.24: 3,147,333
.24: 3,157,725
.24: 3,159,706
.25: 3,119,890
.25: 3,146,292
.25: 3,147,334
.25: 3,160,695
.26: RE.25,515
.26: 3,139,477
.26: 3,141,919
.26: 3,150,228
.26: 3,161,714
9 : 3,146,657
19 : 3,117,481
42 : 3,142,220
83 : 3,153,968
94 : 3,122,959
3,153,364
95 : 3,148,576
3,149,525
3,153,969
171 : 3,143,027
177 : 3,146,658
186 : 3,144,800
199 : 3,120,144
201 : 3,156,151
240 : 3,139,780
3,139,781
3,139,782
3,147,659
3,151,516
3,154,993
3,162,082
245 : 3,160,049
246 : 3,126,782
3,126,783
3,126,784
3,141,368
258 : 3,130,624
267 : 3,124,991
3,130,625
275 : 3,136,196
278 : 3,138,050
280 : 3,136,197
282 : 3,122,960
3,138,051
3,143,913
293 : 3,143,028
3,159,072
297 : 3,130,626
298 : 3,149,526
304 : 3,119,297
307 : 3,120,145
309 : 3,134,287
311 : 3,134,288
312 : 3,136,198
312 : 3,163,073
313 : 3,142,221
3,162,083
317 : 3,129,626
3,154,994
327 : 3,160,050
329 : 3,128,664
330 : 3,131,590
3,151,517
337 : 3,138,052
3,160,051
338 : 3,138,053
343 : 3,143,914
345 : 3,124,992
375 : 3,145,608
376 : 3,145,609
377 : 3,149,527
380 : 3,127,806
3,142,222
3,144,801
3,145,610
3,152,506
3,161,102
381 : 3,154,995
382 : 3,150,553
3,163,074
383 : 3,150,554
385 : 3,136,199
3,136,200
387 : 3,117,482
3,141,369
394 : 3,161,103
401 : 3,154,996
402 : 3,141,370
408 : 3,154,997
409 : 3,122,047
410 : 3,138,986
411 : 3,136,201
3,139,783
419 : 3,163,075
3,163,076
421 : 3,118,339
422 : 3,125,921
3,137,194
3,146,659
3,147,660
3,147,661
3,150,555
3,151,518
425 : 3,149,528
433 : 3,120,146
3,135,153
3,160,052
448 : 3,141,371
454 : 3,144,802
464 : 3,163,077
3,163,078
466 : 3,129,627
471 : 3,129,628
3,130,627
3,131,591
477 : 3,120,147
478 : 3,124,028
3,153,365
3,155,000
484 : 3,122,961
3,128,665
485 : 3,153,970

Class 85

1 : 3,119,298
3,122,048
3,122,962
3,124,993
3,130,628
3,140,635
3,143,029
3,145,611
3,153,971
3,160,053
3,160,054
3,163,079
2.4 : 3,117,483
.4 : 3,122,049
.4 : 3,124,029
.4 : 3,124,030
.4 : 3,128,666
.4 : 3,132,555
.4 : 3,134,289
.4 : 3,136,202
3 : 3,127,807
3,127,808
3,145,612
5 : 3,117,484
3,119,299
3,122,050
3,125,922
3,132,556
3,139,784
6 : 3,139,785
7 : 3,139,786
3,139,787
8.8 : 3,132,557
8.8 : 3,162,084
9 : 3,134,290
3,152,507
3,159,073
10 : 3,137,195
13 : 3,143,030
16 : 3,121,365
21 : 3,120,148
3,121,366
32 : 3,129,629
3,137,196
3,137,197
3,140,636
3,144,803
3,150,556
33 : 3,120,149
3,147,662
3,147,663
35 : 3,153,972
36 : 3,117,485
3,154,998
38 : 3,158,058
40 : 3,129,630
3,130,629
3,136,203
3,136,204
41 : 3,156,152
45 : 3,122,963
3,134,291
3,134,292
3,151,519
47 : 3,117,486
3,124,031
3,125,923
3,136,205
3,159,074
49 : 3,128,667
3,154,999
50 : 3,136,206
3,153,973
53 : 3,122,051
61 : 3,138,987
62 : 3,133,468
3,135,154
3,150,557
3,153,974
63 : 3,162,085
65 : 3,148,577
71 : 3,143,915
3,143,916
77 : 3,148,578
3,149,530
3,158,059
80 : 3,153,975
81 : 3,144,804
3,144,805
82 : 3,162,086
83 : 3,143,917
3,148,579
87 : 3,159,075
3,160,055

Class 86

1 : 3,138,054
3,143,918
10 : 3,161,104
3,162,087
11 : 3,125,924
20 : 3,125,925
3,133,469
3,148,580
3,159,076
23 : 3,143,919
3,146,660
3,150,558
24 : 3,134,293
26 : 3,153,976
27 : 3,157,086
31 : 3,137,198
36 : 3,124,994
3,138,055
38 : 3,152,508
3,153,977
39 : 3,138,056
45 : 3,128,668

Class 87

1 : 3,124,032
2 : 3,130,630
6 : 3,129,631
3,131,592
3,141,372
7 : 3,153,366
12 : 3,129,632

Class 88

1 : RE.25,632
3,124,636
3,130,254
3,131,249
3,133,139
1 : 3,133,140
3,134,837
3,138,650
3,141,920
3,143,588
3,144,497
3,145,247
3,145,248
3,145,249
3,145,250
3,147,335
3,152,207
3,157,726
3,158,673
3,159,707
3,162,711
.5 : 3,118,014
.5 : 3,129,275
.5 : 3,139,478
.5 : 3,141,921
2.2 : 3,137,755
.2 : 3,149,196
.4 : 3,125,623
.4 : 3,127,463
.4 : 3,163,697
14 : 3,117,176
3,120,780
3,122,601
3,123,660
3,124,637
3,124,638
3,125,624
3,125,625
3,127,464
3,127,465
3,128,328
3,134,838
3,134,839
3,134,840
3,135,816
3,137,756
3,137,757
3,137,758
3,137,759
3,141,057
3,142,718
3,142,719
3,144,498
3,145,251
3,145,252
3,146,293
3,149,197
3,151,204
3,152,208
3,153,111
3,153,112
3,153,689
3,154,625
3,154,626
3,155,761
3,155,762
3,156,755
3,157,727
3,158,674
3,158,675
3,160,696
3,160,697
3,161,715
3,162,712
3,163,698
3,163,699
.1 : 3,130,255
15 : 3,131,593
3,160,056
16 : 3,116,659
3,116,660
3,117,487
3,120,781
3,121,367
3,122,052
3,122,964
3,124,033
3,127,809
3,128,669
3,135,155
3,136,207
3,138,057
3,142,223
3,143,031
3,145,613
.2 : 3,124,034
.2 : 3,124,995
.6 : 3,118,340
.6 : 3,136,208
.6 : 3,143,032
.6 : 3,144,806
17 : 3,119,300
3,122,965
3,124,996
3,129,633
3,134,294
3,135,156
3,135,157
3,135,158

Class 88—Con.

17 : 3,136,209
3,137,199
3,137,200
3,137,201
3,139,788
3,140,637
3,141,373
3,145,614
18 : 3,135,159
.7 : 3,139,789
19 : 3,138,058
.3 : 3,139,790
22.5 : 3,157,728
.5 : 3,163,700
24 : 3,116,661
3,117,488
3,117,489
3,117,490
3,117,491
3,119,301
3,120,779
3,120,782
3,124,035
3,124,036
3,124,037
3,124,038
3,124,997
3,125,926
3,126,785
3,126,786
3,127,810
3,129,634
3,130,631
3,130,632
3,130,633
3,130,634
3,130,635
3,130,636
3,131,594
3,131,595
3,131,596
3,132,558
3,132,559
3,132,560
3,134,295
3,134,296
3,134,297
3,134,298
3,134,299
3,135,160
3,136,210
3,137,202
3,138,059
3,138,060
3,138,988
3,139,791
3,139,792
3,142,224
3,143,033
3,143,034
3,143,035
3,143,920
3,143,921
3,144,807
3,145,615
3,146,661
3,146,662
3,146,663
3,146,664
3,146,665
3,147,664
3,147,665
3,148,581
3,148,582
3,148,583
3,148,584
3,148,585
3,149,529
3,150,559
3,151,520
3,151,521
3,151,522
3,155,001
3,157,087
3,157,088
3,159,077
3,160,057
3,160,058
3,161,105
3,161,106
3,161,107
3,161,108
3,163,080
27 : 3,122,966
28 : 3,116,662
3,118,341
3,120,150
3,120,783
3,121,368
3,122,053
3,122,054
3,124,039
28 : 3,126,787
3,130,637
3,138,061
3,138,062
3,139,793
3,141,374
3,143,036
3,143,037
3,145,616
3,146,666
3,146,667
3,151,523
3,152,509
3,153,978
3,155,002
3,159,078
3,160,059
3,161,109
.9 : 3,125,927
.9 : 3,126,788
.9 : 3,136,211
29 : 3,137,760
3,145,253
31 : 3,143,589
32 : 3,121,134
3,153,690
3,154,627
3,158,676
3,161,716
39 : 3,135,817
3,146,294
3,160,698
3,162,713
40 : 3,122,602
3,137,761
3,161,717
41 : 3,133,982
3,139,479
51 : 3,146,295
52 : 3,118,962
3,133,141
53 : 3,145,254
3,155,763
3,156,756
3,156,757
54 : 3,140,338
56 : 3,136,839
57 : 3,118,963
3,118,964
3,119,891
3,119,892
3,119,893
3,119,894
3,121,135
3,125,626
3,125,627
3,126,437
3,127,466
3,128,329
3,132,199
3,132,200
3,133,142
3,133,983
3,134,841
3,135,818
3,136,840
3,138,651
3,143,590
3,145,255
3,151,524
3,152,209
3,152,210
3,152,211
3,152,212
3,152,213
3,152,214
3,154,628
3,158,677
3,160,699
3,160,700
3,161,718
3,161,719
3,162,714
3,163,701
58 : 3,157,089
61 : 3,135,819
3,137,762
3,142,720
3,145,256
3,152,215
3,153,113
3,153,691
3,158,678
65 : 3,117,177
3,124,639
3,151,205
68 : 3,140,339
72 : 3,133,143
3,162,715
73 : 3,117,178
3,151,206
75 : 3,156,758
77 : 3,152,216
79 : 3,161,720
82 : 3,140,340
3,155,764
84 : 3,140,341
86 : 3,151,207
87 : 3,131,250
3,145,257
3,146,296
93 : 3,118,965
96 : 3,123,661
3,163,702
97 : 3,156,759
98 : 3,131,251
3,132,201
3,157,729
106 : 3,151,208

Class 89

1 : 3,118,342
3,119,302
3,120,151
3,122,055
3,138,063
3,141,375
3,145,617
3,150,560
3,153,367
.5 : 3,116,663
.5 : 3,122,056
.5 : 3,132,561
.5 : 3,158,060
.7 : 3,116,664
.7 : 3,119,303
.7 : 3,120,784
.7 : 3,121,369
.7 : 3,122,057
.7 : 3,122,058
.7 : 3,122,059
.7 : 3,124,040
.7 : 3,128,670
.7 : 3,128,671
.7 : 3,129,635
.7 : 3,129,636
.7 : 3,131,597
.7 : 3,132,562
.7 : 3,134,300
.7 : 3,135,161
.7 : 3,135,162
.7 : 3,137,203
.7 : 3,138,064
.7 : 3,138,989
.7 : 3,139,794
.7 : 3,139,795
.7 : 3,140,638
.7 : 3,144,808
.7 : 3,145,618
.7 : 3,145,619
.7 : 3,146,668
.7 : 3,146,669
.7 : 3,146,670
.7 : 3,148,586
.7 : 3,149,531
.7 : 3,153,979
.7 : 3,153,980
.7 : 3,158,061
.7 : 3,158,062
.7 : 3,160,060
.7 : 3,160,061
.7 : 3,160,062
.7 : 3,162,088
4 : 3,144,809
5 : 3,135,163
6.5 : 3,142,225
7 : 3,138,990
8 : 3,126,789
3,148,587
12 : 3,143,922
14 : 3,137,204
3,138,991
3,141,376
3,149,532
3,152,510
3,155,003
3,156,153
17 : 3,141,377
24 : 3,146,671
26 : 3,125,928
33 : 3,120,152
3,126,790
3,130,638
3,134,301
3,136,212
3,136,213
3,139,796
3,143,038
3,144,810
3,152,511
3,153,368
3,153,981
35 : 3,152,512
36 : 3,131,598
3,134,302
3,136,214
3,137,205
36 : 3,138,992
3,138,993
3,139,797
3,140,639
3,145,620
3,157,090
37 : 3,125,929
3,138,994
3,159,079
40 : 3,130,639
41 : 3,136,215
42 : 3,126,791
43 : 3,130,640
3,146,672
44 : 3,130,641
45 : 3,134,303
3,142,226
46 : 3,122,967
3,139,798
47 : 3,120,785
126 : 3,146,673
127 : 3,160,063
128 : 3,155,004
134 : 3,127,811
136 : 3,142,227
137 : 3,158,063
140 : 3,152,513
148 : 3,159,080
154 : 3,129,637
155 : 3,122,060
3,160,064
191 : 3,125,930
193 : 3,127,812
194 : 3,153,982
196 : 3,158,064
197 : 3,139,799
198 : 3,122,061

Class 90

1 : 3,122,968
3,157,091
.4 : 3,129,638
.4 : 3,130,642
.6 : 3,118,343
.6 : 3,127,813
.6 : 3,143,039
.6 : 3,149,533
.6 : 3,160,065
4 : 3,143,040
3,145,621
5 : 3,137,206
3,138,995
3,138,996
9.4 : 3,118,344
10 : 3,162,089
11 : 3,117,492
3,117,493
3,118,345
3,119,304
3,124,998
3,129,639
3,133,470
3,136,216
3,136,217
3,137,207
3,138,997
3,139,800
3,141,378
3,146,674
3,159,081
3,162,090
3,163,081
.42: 3,125,931
.58: 3,163,082
.62: 3,119,305
.62: 3,156,154
.62: 3,163,083
.64: 3,138,065
12 : 3,128,672
3,131,599
3,132,563
3,137,208
3,138,998
3,146,675
3,149,534
3,158,065
3,160,066
.5 : 3,122,969
13 : 3,129,640
3,145,622
3,150,561
3,157,092
3,161,110
.05: 3,116,665
.05: 3,118,346
.05: 3,138,999
.05: 3,148,589
.1 : 3,117,495
.1 : 3,126,792
.1 : 3,130,643
.1 : 3,137,209
.1 : 3,156,155
.4 : 3,159,082
13.4 : 3,159,083
.4 : 3,160,067
.5 : 3,119,306
.5 : 3,121,370
.5 : 3,147,666
.5 : 3,148,588
.6 : 3,160,068
14 : 3,131,600
3,139,000
3,157,094
3,158,066
15 : 3,125,932
3,153,369
3,155,005
3,160,069
3,160,084
3,163,084
.1 : 3,125,933
.1 : 3,160,070
16 : 3,129,641
3,136,218
3,140,640
3,143,041
17 : 3,127,814
3,162,091
3,163,085
18 : 3,125,934
20 : 3,163,086
.5 : 3,155,006
21 : 3,146,676
3,155,007
3,163,087
22 : 3,119,307
23 : 3,127,815
24 : 3,132,564
3,142,228
3,147,667
3,149,535
3,155,008
3,157,093
31 : 3,143,923
38 : 3,139,001
40 : 3,146,677
52 : 3,153,370
53 : 3,136,219
3,163,088
55 : 3,152,514
56 : 3,118,347
58 : 3,120,786
3,128,681
62 : 3,122,970
3,126,793
3,127,816
3,139,002
3,139,003
3,141,379
3,144,811
3,145,623
3,148,590
3,163,089
69 : 3,120,153
95 : 3,117,494

Class 91

1 : 3,124,041
3,148,591
2 : 3,141,380
3 : 3,122,062
3,124,999
3,131,601
4 : 3,140,641
25 : 3,118,348
3,138,066
3,155,009
26 : 3,122,063
3,150,562
3,162,092
28 : 3,120,787
31 : 3,156,156
35 : 3,149,536
37 : 3,124,042
3,153,983
38 : 3,119,308
42 : 3,141,381
43 : 3,128,673
44 : 3,141,382
45 : 3,141,383
47 : 3,135,164
3,135,165
3,137,210
3,147,668
48 : 3,156,157
49 : 3,148,592
3,158,067
51 : 3,133,471
3,160,071
53 : 3,141,384
58 : 3,161,111
68 : 3,151,526
75 : 3,153,984
87 : 3,153,371
3,160,072
92 : 3,116,666
96 : 3,156,158
121 : 3,129,642
126 : 3,163,090
135 : 3,120,154
137 : 3,131,602
163 : 3,137,211
165 : 3,131,603
3,133,472
3,136,220
167 : 3,128,674
3,139,004
3,150,563
168 : 3,136,221
3,136,222
3,139,005
170 : 3,144,812
171 : 3,132,565
3,143,924
175 : 3,135,166
3,135,167
3,138,067
3,151,527
3,151,528
3,153,372
3,155,010
3,156,159
176 : 3,128,675
178 : 3,124,043
3,149,537
179 : 3,135,168
180 : 3,131,604
183 : 3,160,073
184 : 3,147,669
186 : 3,125,000
188 : 3,142,229
189 : 3,137,212
3,139,801
3,141,385
3,146,678
3,152,516
198 : 3,131,605
199 : 3,139,006
205 : 3,122,971
3,151,529
206 : 3,136,223
207 : 3,150,564
216 : 3,122,972
3,127,817
3,135,169
3,158,068
217 : 3,160,074
232 : 3,139,007
235 : 3,138,068
247 : 3,152,517
264 : 3,153,985
280 : 3,124,044
3,150,565
282 : 3,150,566
306 : 3,162,093
315 : 3,131,606
321 : 3,130,644
329 : 3,144,813
331 : 3,148,593
335 : 3,162,094
337 : 3,149,538
338 : 3,132,566
341 : 3,134,304
3,155,011
342 : 3,124,045
357 : 3,125,001
359 : 3,120,788
361 : 3,141,386
363 : 3,136,224
3,143,042
365 : 3,125,002
366 : 3,145,624
367 : 3,143,925
368 : 3,159,084
369 : 3,132,567
3,143,926
3,149,539
372 : 3,133,473
3,151,530
374 : 3,145,625
375 : 3,138,069
3,145,626
376 : 3,125,003
3,131,607
3,143,927
378 : 3,138,070
382 : 3,129,643
383 : 3,128,677
384 : 3,138,071
387 : 3,131,608
3,151,531
391 : 3,120,155
3,120,156
3,126,794
3,128,676
3,143,928
3,143,929
3,143,930
3,146,679
3,151,532
3,152,518
391 : 3,155,012
395 : 3,136,225
3,157,095
399 : 3,162,097
402 : 3,160,075
404 : 3,118,349
408 : 3,120,157
409 : 3,155,013
411 : 3,149,540
413 : 3,128,678
3,129,644
3,148,594
3,150,567
3,151,533
414 : 3,150,568
3,160,076
3,162,095
415 : RE.25,643
3,147,670
416 : 3,139,008
420 : 3,137,213
421 : 3,162,096
422 : 3,119,309
3,142,230
3,147,671
3,149,541
423 : 3,152,519
434 : 3,122,973
437 : 3,122,064
3,138,072
442 : 3,130,645
3,136,226
3,145,627
443 : 3,126,795
444 : 3,133,474
446 : 3,133,475
451 : 3,159,085
461 : 3,129,645
3,135,170
467 : 3,143,931

Class 92

1 : 3,163,091
11 : 3,148,595
12 : 3,146,680
13 : 3,128,679
3,130,646
3,138,073
3,139,802
3,146,681
3,156,160
3,160,077
3,162,098
14 : 3,135,171
3,150,569
3,160,078
24 : 3,151,525
26 : 3,135,172
28 : 3,150,570
3,150,571
31 : 3,133,476
3,143,932
33 : 3,141,387
3,153,986
3,156,161
39 : 3,155,019
48 : 3,137,214
50 : 3,151,534
51 : 3,141,388
3,158,069
52 : 3,152,520
3,158,070
57 : 3,153,987
59 : 3,122,065
63 : RE.25,669
3,117,496
3,127,818
3,131,609
3,136,227
3,152,521
68 : 3,119,310
3,121,371
78 : 3,132,568
82 : 3,156,162
3,161,112
85 : 3,136,228
3,143,933
91 : 3,117,497
92 : 3,121,372
94 : 3,143,043
3,163,092
95 : 3,121,373
3,141,389
99 : 3,136,229
3,146,682
103 : 3,135,173
3,137,215
109 : 3,158,071
112 : 3,152,522
113 : 3,156,163
3,163,093
119 : 3,153,988
121 : 3,153,373

125 : 3,131,610
128 : 3,136,230
3,149,542
133 : 3,150,572
136 : 3,153,989
149 : 3,117,498
155 : 3,125,004
3,133,477
3,145,629
3,146,683
3,149,543
161 : 3,159,086
163 : 3,146,684
166 : 3,145,628
168 : 3,158,072
169 : 3,122,066
3,132,569
3,134,305
3,153,990
171 : 3,137,216
3,139,009
194 : 3,148,596
206 : 3,120,789
208 : 3,163,094
209 : 3,134,306
213 : 3,152,523
241 : 3,148,597
244 : 3,131,611
3,155,014
245 : 3,132,570
248 : 3,139,010
3,140,642
3,141,390
249 : 3,155,015
250 : 3,143,934
255 : 3,152,524

Class 93

1 : 3,116,667
3,122,067
3,122,974
3,125,005
3,125,006
3,128,680
3,131,612
3,143,935
3,155,016
3,160,079
.3 : 3,147,672
8 : 3,131,613
3,133,478
3,133,479
3,138,074
3,144,814
3,146,685
3,147,673
3,148,598
12 : 3,124,046
3,140,643
22 : 3,121,374
3,156,164
27 : 3,129,646
3,155,017
3,156,165
35 : 3,126,796
3,130,647
3,133,480
3,143,936
3,144,815
3,147,674
3,150,573
3,156,166
36 : 3,117,499
3,130,648
3,137,217
3,148,599
3,158,073
.01: 3,118,350
.01: 3,126,797
.01: 3,130,649
.01: 3,144,816
.01: 3,147,675
.05: 3,119,311
.1 : 3,134,307
.6 : 3,142,231
37 : 3,133,481
3,134,308
3,141,391
3,162,099
39.1 : 3,118,351
.3 : 3,157,096
40 : 3,126,811
44 : 3,160,080
.1 : 3,152,525
.1 : 3,153,374
48 : 3,153,991
49 : 3,130,650
3,138,075
51 : 3,122,068
3,125,007
3,145,630
3,149,544
52 : 3,122,070
3,131,614
53 : 3,122,071
3,134,309
3,138,076
3,142,232
3,143,937
3,156,167
3,161,113
54 : 3,122,975
55.1 : 3,126,798
.1 : 3,133,482
.1 : 3,162,100
58 : 3,142,233
3,152,526
.1 : 3,147,676
.2 : 3,119,312
.2 : 3,122,976
.3 : 3,137,218
.3 : 3,163,095
60 : 3,149,545
62 : 3,116,668
3,160,081
63 : 3,143,938
77 : 3,122,977
80 : 3,120,158
3,133,483
3,136,231
3,139,011
3,150,574
3,150,575
3,158,074
81 : 3,131,615
3,134,310
82 : 3,122,072
3,125,008
3,127,819
3,139,012
3,155,018
84 : 3,135,174
3,138,077
3,150,576
88 : 3,150,577
93 : 3,117,500
3,127,820
3,135,175
3,150,578

Class 94

1 : 3,118,352
3 : 3,122,073
4 : 3,125,009
5 : 3,156,168
8 : 3,156,169
13 : 3,141,392
3,143,939
16 : 3,138,078
17 : 3,147,677
18 : 3,124,047
3,135,176
3,157,097
22 : 3,132,571
3,161,114
23 : 3,162,101
30 : 3,140,644
31 : 3,157,098
33 : 3,127,821
36 : 3,130,651
38 : 3,142,234
39 : 3,155,020
44 : 3,153,992
45 : 3,118,353
3,125,935
3,130,652
3,130,653
3,135,177
3,137,219
3,147,678
3,155,021
3,161,115
46 : 3,130,654
3,131,616
3,135,178
3,137,220
3,138,079
3,156,170
3,157,099
3,161,116
3,161,117
48 : 3,128,682
49 : 3,162,102
50 : 3,119,313
3,119,314
3,120,159
3,145,631
3,146,686
3,153,993

Class 95

1 : 3,143,940
3,162,103
.1 : 3,125,936
1.1 : 3,136,232
.1 : 3,141,393
.1 : 3,152,527
.7 : 3,117,501
.7 : 3,120,790
.7 : 3,121,375
.7 : 3,128,683
.7 : 3,130,655
.7 : 3,131,617
.7 : 3,133,484
.7 : 3,135,179
.7 : 3,135,180
.7 : 3,136,233
.7 : 3,139,013
.7 : 3,141,394
.7 : 3,143,044
.7 : 3,145,632
.7 : 3,146,687
.7 : 3,146,688
.7 : 3,147,679
.7 : 3,148,600
.7 : 3,148,601
.7 : 3,149,546
.7 : 3,152,528
.7 : 3,155,022
.7 : 3,162,104
4.5 : 3,117,502
.5 : 3,118,354
.5 : 3,118,355
.5 : 3,122,074
.5 : 3,122,075
.5 : 3,126,799
.5 : 3,130,656
.5 : 3,132,602
.5 : 3,139,803
.5 : 3,141,395
.5 : 3,162,105
.5 : 3,163,096
10 : Re.25,563
Re.25,635
3,116,669
3,116,670
3,117,503
3,117,504
3,118,356
3,121,376
3,122,978
3,122,979
3,124,048
3,124,049
3,125,010
3,125,011
3,125,012
3,125,937
3,125,938
3,125,939
3,126,800
3,126,801
3,126,802
3,127,822
3,127,823
3,127,824
3,128,684
3,129,647
3,130,657
3,130,658
3,131,618
3,131,619
3,132,601
3,134,311
3,139,804
3,143,045
3,143,046
3,143,047
3,145,633
3,147,680
3,148,602
3,148,603
3,148,604
3,151,535
3,153,994
3,155,023
3,163,097
11 : 3,118,357
3,120,791
3,135,181
3,141,396
3,142,235
3,142,236
3,143,941
3,153,995
3,162,106
3,162,107
.5 : 3,116,671
.5 : 3,134,312
.5 : 3,139,805
.5 : 3,143,942
.5 : 3,162,108
.5 : 3,162,109
12 : 3,139,014
.5 : 3,143,049
.5 : 3,121,377
.5 : 3,143,048
.5 : 3,158,079
12.5 : 3,160,082
.5 : 3,163,098
13 : 3,120,792
3,132,572
3,134,313
3,151,536
3,152,529
3,152,530
3,155,024
14 : 3,134,314
3,143,943
3,143,944
15 : 3,120,160
3,141,397
3,142,237
17 : 3,139,015
18 : 3,128,685
3,159,087
19 : 3,161,118
31 : 3,118,358
3,119,315
3,121,378
3,122,076
3,126,803
3,126,804
3,126,805
3,128,686
3,132,573
3,132,574
3,135,182
3,135,183
3,137,221
3,138,080
3,138,081
3,138,084
3,142,238
3,143,050
3,147,681
3,148,605
3,153,375
3,157,100
3,157,101
34 : 3,125,940
3,128,687
3,160,083
36 : 3,122,077
3,124,050
3,135,184
3,143,051
42 : 3,122,078
3,126,806
3,145,634
3,151,537
3,158,075
44 : 3,138,082
3,139,016
3,142,239
3,143,052
3,149,547
3,150,579
3,162,110
45 : 3,118,359
3,118,360
3,122,079
3,147,682
3,149,548
3,158,076
3,161,119
53 : 3,133,485
.3 : 3,117,505
55 : 3,122,080
57 : 3,133,486
3,138,083
3,148,606
3,160,084
59 : 3,118,361
63 : 3,122,081
3,122,082
3,136,234
3,137,222
3,139,806
3,146,689
3,153,996
3,153,997
3,153,998
3,153,999
64 : 3,116,672
3,116,673
3,116,674
3,117,506
3,120,161
3,121,379
3,121,380
3,122,083
3,122,084
3,122,980
3,128,168
3,131,620
3,132,575
3,132,576
3,133,487
3,133,488
3,133,489
3,134,315
64 : 3,134,316
3,135,185
3,136,235
3,136,236
3,137,223
3,139,807
3,143,053
3,143,054
3,143,945
3,148,607
3,148,608
3,148,609
3,150,580
3,150,581
3,154,000
3,156,171
3,159,088
3,162,111
69 : 3,146,690
73 : 3,119,317
3,120,162
3,121,381
3,126,807
3,135,186
3,139,808
3,140,645
3,141,398
3,143,055
3,143,946
3,147,683
3,148,610
3,155,026
3,158,077
74 : 3,116,675
75 : 3,120,163
3,125,013
3,126,808
3,126,809
3,139,017
3,140,646
3,143,947
3,145,635
3,147,684
3,152,531
3,156,172
3,157,102
3,160,085
3,161,120
3,163,099
76 : 3,119,318
3,122,085
3,137,224
3,142,240
3,150,582
77 : 3,150,583
.5 : 3,120,793
.5 : 3,127,825
.5 : 3,136,237
.5 : 3,139,018
.5 : 3,143,948
.5 : 3,143,949
.5 : 3,148,611
.5 : 3,152,532
.5 : 3,155,025
.5 : 3,160,086
.5 : 3,161,121
83 : 3,128,688
85 : 3,139,809
86 : 3,145,636
3,149,549
89 : 3,116,676
3,117,507
3,117,508
3,119,319
3,120,794
3,131,621
3,134,317
3,135,187
3,136,238
3,137,225
3,139,019
3,139,810
3,142,241
3,142,242
3,142,243
3,142,244
3,143,056
3,143,950
3,144,817
3,147,685
3,147,686
3,148,612
3,149,550
3,157,103
3,158,080
3,161,122
90 : 3,120,795
.5 : 3,132,577
.5 : 3,153,376
93 : 3,140,647
94 : 3,116,677
3,121,382
3,122,086
3,122,981
94 : 3,145,637
3,147,687
3,149,551
3,156,173
96 : 3,124,051
3,133,490
98 : 3,135,188
3,152,533
100 : 3,120,164
3,124,052
3,133,491
3,147,688
3,158,078

Class 96

1 : 3,121,006
3,121,007
3,121,008
3,121,009
3,121,010
3,122,435
3,124,456
3,124,457
3,125,447
3,127,266
3,128,179
3,130,046
3,131,060
3,132,941
3,132,942
3,138,458
3,139,338
3,139,339
3,139,340
3,140,174
3,140,175
3,140,945
3,140,946
3,141,770
3,142,561
3,142,562
3,146,100
3,146,101
3,148,057
3,148,982
3,150,976
3,151,982
3,152,894
3,152,895
3,153,591
3,154,414
3,155,503
3,155,504
3,158,475
3,158,476
3,159,483
3,160,503
3,161,505
3,162,532
3,163,530
3,163,531
3,163,532
2 : 3,133,814
3,142,563
3,148,058
3 : 3,138,459
3,146,102
3,161,506
5 : 3,158,477
6 : 3,162,533
20 : 3,156,561
22 : 3,141,771
3,152,896
23 : 3,127,267
3,152,897
27 : 3,128,180
3,129,096
3,137,573
3,143,414
3,144,331
3,144,332
3,146,103
3,148,059
3,149,967
3,149,968
3,155,505
3,157,499
3,158,478
3,160,504
3,161,507
28 : 3,129,097
3,138,460
3,148,060
3,152,898
3,157,500
3,159,484
3,159,485
29 : 3,121,011
3,126,280
3,131,061
3,134,672
3,135,604
3,135,605
29 : 3,135,606
3,141,772
3,142,564
3,142,565
3,148,061
3,160,505
3,161,508
30 : 3,152,899
32 : 3,144,333
33 : 3,118,765
3,126,281
3,128,181
3,130,047
3,130,048
3,130,049
3,143,415
3,145,104
3,146,104
3,146,105
3,148,983
3,160,506
34 : 3,156,562
35 : 3,129,098
3,130,050
3,140,176
3,143,416
3,143,417
3,146,106
3,147,116
3,152,900
3,157,501
36 : 3,156,563
3,159,486
37 : 3,154,415
40 : 3,161,509
42 : 3,149,969
43 : 3,129,099
3,152,901
3,161,510
44 : 3,127,268
45 : 3,122,436
3,156,564
3,158,479
46 : 3,122,437
48 : 3,121,632
3,121,633
3,140,947
3,140,948
3,140,949
3,147,117
3,149,970
3,158,480
3,158,481
49 : 3,120,437
3,123,472
3,130,051
3,130,052
3,135,607
3,143,418
3,144,334
3,149,971
3,153,592
3,157,502
3,157,503
3,161,511
50 : 3,143,419
3,152,902
3,155,506
53 : Re.25,586
55 : 3,127,269
3,133,815
3,148,062
3,161,512
56 : 3,140,177
59 : 3,126,282
61 : 3,128,182
3,132,943
3,137,574
3,140,178
3,142,566
3,157,504
3,161,513
64 : 3,152,903
3,155,507
66 : 3,129,100
3,134,673
3,142,567
3,155,508
3,158,482
3,158,483
3,161,514
3,161,515
3,162,534
67 : 3,161,516
68 : 3,121,232
3,130,053
3,134,674
3,140,179
3,141,773
3,157,505
73 : 3,154,416
3,155,509
74 : 3,155,510
3,163,533

Class 96—Con.

75 : 3,136,636
3,136,637
3,136,638
3,136,639
3,140,180
3,140,181
3,148,984
3,149,972
3,154,417
3,155,511
3,159,487
3,161,517
3,161,518
3,161,521
3,163,534
3,163,535
76 : 3,152,515
3,152,904
79 : 3,143,420
83 : 3,135,608
3,148,063
3,149,973
3,156,565
84 : 3,152,905
85 : 3,117,865
3,131,062
3,132,944
3,159,488
3,161,519
87 : 3,142,568
3,143,421
3,143,422
3,145,105
3,148,985
3,148,986
3,157,506
90 : 3,121,012
3,122,438
3,123,473
3,129,101
91 : 3,134,675
3,139,341
3,143,423
3,148,064
3,155,512
3,155,513
92 : 3,140,950
94 : 3,127,270
3,132,945
3,133,816
3,137,575
3,137,576
3,138,461
3,144,335
3,152,906
3,153,593
98 : 3,152,907
99 : 3,157,507
3,157,508
100 : 3,135,609
101 : 3,124,458
3,140,951
105 : 3,125,448
3,148,065
106 : 3,133,817
3,140,182
107 : 3,128,183
3,150,977
3,155,514
3,155,515
3,155,516
3,155,517
3,155,518
3,155,519
3,158,484
3,163,536
108 : 3,123,474
3,128,184
3,128,185
3,137,577
3,144,336
109 : 3,128,186
3,128,187
3,137,578
3,147,118
3,148,066
3,148,067
3,148,987
3,157,509
3,161,520
111 : 3,125,449
3,149,974
114 : 3,118,766
3,153,594
3,157,510
115 : 3,118,767
3,147,119
3,149,975
116 : 3,132,946

Class 98

1 : 3,120,796
3,124,053
.5 : 3,141,399
.5 : 3,145,638
.5 : 3,152,534
.5 : 3,156,174
2 : 3,116,678
3,118,362
3,120,797
3,136,239
3,138,085
3,143,057
3,143,951
3,145,639
3,156,175
3,157,104
3,162,112
10 : 3,151,538
3,159,089
13 : 3,122,982
18 : 3,125,941
29 : 3,130,659
30 : 3,158,081
33 : 3,124,054
3,145,640
3,150,584
3,158,082
36 : 3,126,810
3,143,952
3,145,641
3,157,105
37 : 3,125,942
3,138,086
38 : 3,120,165
3,134,318
3,139,020
3,158,083
39 : 3,120,166
3,120,167
3,132,578
3,149,552
3,163,100
40 : 3,117,509
3,119,320
3,122,087
3,122,983
3,125,943
3,127,826
3,127,827
3,132,579
3,145,642
3,154,001
3,155,027
3,159,090
3,159,091
3,159,092
43 : 3,122,088
3,142,245
3,149,553
46 : 3,160,087
3,163,101
50 : 3,118,363
54 : 3,130,660
55 : 3,136,240
3,139,021
3,157,106
87 : 3,122,984
3,159,093
94 : 3,118,364
3,128,689
3,134,319
3,137,226
99.5 : 3,124,055
.8 : 3,139,022
101 : 3,148,613
106 : 3,163,102
110 : 3,125,944
114 : 3,121,383
115 : 3,130,661
3,138,087
3,145,643
3,148,614
3,157,107
116 : 3,116,679
3,120,798
3,143,953
119 : 3,121,384
3,129,648
3,139,811
3,140,648

Class 99

1 : 3,124,459
3,124,460
3,131,063
3,140,183
3,142,569
3,143,424
1 : 3,150,978
2 : 3,117,866
3,117,867
3,118,768
3,119,691
3,121,634
3,124,461
3,130,054
3,131,064
3,134,676
3,139,342
3,144,337
3,147,120
3,148,068
3,148,988
3,155,520
3,155,521
4 : 3,119,692
3,136,640
3,151,983
3,157,511
7 : 3,142,570
9 : 3,141,775
3,147,121
3,150,979
3,157,512
14 : 3,142,571
17 : 3,157,513
18 : 3,141,774
23 : 3,152,908
26 : 3,119,693
28 : 3,117,004
3,140,184
3,146,107
31 : 3,123,475
48 : 3,128,188
3,130,055
3,145,106
3,163,537
3,163,538
50.5 : 3,123,476
.5 : 3,143,425
.5 : 3,155,522
51 : 3,128,189
52 : 3,117,005
3,135,610
3,161,522
54 : 3,118,769
55 : 3,126,283
56 : 3,120,438
3,151,984
59 : 3,128,190
60 : 3,148,989
66 : 3,121,635
68 : 3,122,439
3,149,976
71 : 3,120,439
3,120,440
3,132,947
3,139,343
3,142,572
3,143,426
3,148,069
3,148,070
3,149,977
3,155,523
75 : 3,158,485
76 : 3,146,108
77 : 3,151,985
3,163,539
.1 : 3,119,694
.1 : 3,126,284
.1 : 3,131,065
.1 : 3,139,344
.1 : 3,154,418
78 : 3,121,636
3,151,986
3,152,909
79 : 3,119,695
3,120,441
80 : 3,117,006
3,117,868
3,121,637
3,132,948
3,133,818
3,134,677
3,141,776
3,149,978
3,154,419
3,157,514
3,162,535
81 : 3,140,952
85 : 3,138,462
3,162,536
86 : 3,158,486
90 : 3,121,013
3,135,611
3,142,573
3,144,338
3,161,523
91 : 3,144,339
91 : 3,154,420
92 : 3,144,340
3,151,987
3,157,515
93 : 3,117,007
3,146,109
94 : 3,135,612
3,146,110
3,149,979
3,152,910
3,153,595
3,158,487
3,160,507
3,161,524
96 : 3,150,980
98 : 3,126,285
3,141,777
3,155,524
99 : 3,126,286
100 : 3,127,271
3,132,949
102 : 3,142,574
103 : 3,120,442
3,148,990
104 : 3,139,345
105 : 3,118,770
3,150,981
107 : 3,119,696
3,122,440
3,123,477
3,125,450
3,128,191
3,147,122
3,147,123
3,150,982
3,152,911
3,156,566
3,159,489
3,163,540
108 : 3,131,066
3,163,541
109 : 3,117,869
3,121,638
3,124,462
3,132,950
3,148,071
3,149,980
3,151,988
3,158,488
3,163,542
111 : 3,152,912
113 : 3,131,067
3,162,537
114 : 3,143,427
115 : 3,156,567
116 : 3,117,008
3,117,009
3,117,870
3,120,443
3,121,014
3,128,192
3,132,026
3,140,185
3,142,575
3,147,124
3,156,568
3,159,490
118 : 3,117,010
3,117,011
3,132,951
3,133,819
3,138,463
3,142,576
3,145,107
3,145,108
3,145,109
3,158,489
3,158,490
123 : Re.25,696
3,124,463
3,144,341
3,145,110
128 : 3,117,871
3,121,015
3,127,272
3,129,102
3,140,953
129 : 3,142,577
130 : 3,147,125
3,152,913
131 : 3,119,697
132 : 3,140,186
134 : 3,137,579
3,163,543
135 : 3,117,872
3,159,491
136 : 3,124,464
3,128,193
137 : 3,123,478
138 : 3,140,954
139 : 3,131,068
140 : 3,118,771
3,150,983
3,152,914
3,156,569
3,157,516
141 : 3,118,772
3,143,428
145 : 3,124,465
148 : 3,124,466
3,125,451
3,139,346
3,162,538
154 : 3,126,287
3,138,464
159 : 3,134,678
3,138,465
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3,154,421
161 : 3,136,641
3,144,342
3,156,570
163 : 3,157,517
166 : 3,141,778
3,141,779
3,157,518
169 : 3,132,027
3,145,111
171 : 3,117,873
3,117,874
3,123,479
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3,130,056
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3,134,679
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3,137,580
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173 : 3,146,111
174 : 3,117,875
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3,132,029
3,134,681
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175 : 3,148,480
176 : 3,123,481
3,123,482
3,123,483
3,135,613
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178 : 3,143,430
179 : 3,124,467
3,144,343
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180 : 3,122,441
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181 : 3,130,059
3,134,682
182 : Re.25,535
3,118,773
3,125,452
3,160,508
186 : 3,131,070
3,132,030
187 : 3,117,876
3,126,288
188 : 3,124,469
3,137,581
3,161,526
189 : 3,145,113
192 : 3,117,877
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3,135,614
3,137,582
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193 : 3,136,642
195 : 3,152,915
199 : 3,119,698
201 : 3,119,699
203 : 3,121,639
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203 : 3,159,492
204 : 3,119,700
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205 : 3,118,775
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425 : 3,130,664
427 : 3,163,103
439 : 3,141,400
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440 : 3,143,059
443 : 3,121,386
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446 : 3,127,828
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Class 100

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3 : 3,118,365
4 : 3,118,366
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3,124,059
3,127,829
3,129,654
3,135,191
3,139,813
3,146,695
.3 : 3,120,168
.5 : 3,120,169
243 : 3,154,002
246 : 3,122,986
251 : 3,139,812
3,156,176
254 : 3,149,554
257 : 3,149,555
260 : 3,117,510
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3,139,023
277.1 : 3,119,321
280 : 3,153,377
281 : 3,135,189
282 : Re.25,663
3,132,580
283 : 3,124,056
3,126,812
3,137,227
3,143,058
287 : 3,120,170
3,137,228
289 : 3,125,945
3,143,954
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290 : 3,122,987
291 : 3,119,322
3,149,556
292 : 3,130,663
293 : 3,128,691
297 : 3,158,084
302 : 3,122,988
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315 : 3,151,539
327 : 3,129,649
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3,145,645
330 : 3,131,622
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331 : 3,147,689
334 : 3,154,003
339 : 3,140,651
3,152,535
3,156,177
3,157,108
340 : 3,124,057
3,134,320
3,159,094
342 : 3,125,946
349 : 3,126,813
354 : 3,124,058
355 : 3,156,178
357 : 3,117,511
358 : 3,116,680
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360 : 3,151,540
369 : 3,122,990
374 : 3,121,385
379 : 3,146,692
389 : 3,154,005
390 : 3,154,004
397 : 3,152,536
402 : 3,158,085
404 : 3,152,537
408 : 3,159,095
421 : 3,125,015
3,125,016
3,126,814
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423 : 3,158,086
425 : 3,130,664
427 : 3,163,103
439 : 3,141,400
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443 : 3,121,386
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Class 100

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3 : 3,118,365
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7 : 3,139,024
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8 : 3,135,192
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18 : 3,129,655
19 : 3,122,991
23 : 3,124,060
24 : 3,126,815
25 : 3,150,585
3,150,586
26 : 3,116,681
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3,120,171
3,125,018
3,157,109
31 : 3,117,512
34 : 3,139,814
3,145,646
3,149,559
35 : 3,154,006
37 : 3,138,088
3,161,123
3,162,114
38 : 3,131,623
3,153,378
3,163,104
39 : 3,139,815
40 : 3,122,089
41 : 3,120,172
43 : 3,121,387
3,143,956
45 : 3,146,696
3,161,124
46 : 3,120,799
50 : 3,122,992
51 : 3,139,816
53 : 3,125,947
3,130,665
3,143,957
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3,149,560
70 : 3,120,173
88 : 3,125,948
89 : 3,143,958
93 : 3,130,666
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96 : 3,155,028
98 : 3,126,816
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3,134,321
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110 : 3,133,492
112 : 3,116,682
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117 : 3,135,193
118 : 3,130,667
121 : 3,126,819
129 : 3,126,820
133 : 3,126,821
139 : 3,125,019

142 : 3,127,830
146 : 3,124,061
147 : 3,154,007
148 : 3,140,652
155 : 3,161,125
158 : 3,122,090
162 : 3,138,089
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163 : 3,158,088
165 : 3,131,624
168 : 3,127,831
170 : 3,119,324
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171 : 3,132,581
189 : 3,122,091
194 : 3,155,030
199 : 3,119,325
211 : 3,133,493
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218 : 3,129,658
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219 : 3,147,694
231 : 3,157,112
233 : 3,138,090
238 : 3,140,653
244 : 3,158,089
257 : 3,133,494
3,147,695
264 : 3,140,654
3,145,648
269 : 3,122,092
272 : 3,157,113

Class 101

1 : 3,118,369
3,159,099
3 : 3,154,010
4 : 3,118,370
3,120,175
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3,140,655
3,157,114
6 : 3,124,063
3,143,959
3,163,106
11 : 3,128,692
18 : 3,124,064
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19 : 3,143,060
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23 : 3,129,659
24 : 3,127,832
25 : 3,146,698
28 : 3,116,683
32 : 3,133,495
3,151,542
35 : 3,116,684
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3,140,656
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37 : 3,120,176
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38 : 3,125,949
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39 : 3,162,115
40 : 3,133,496
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41 : 3,120,177
43 : 3,149,561
44 : 3,124,066
45 : 3,138,091
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66 : 3,116,685
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72 : 3,120,800
74 : 3,143,062
76 : 3,142,246
79 : 3,147,696
80 : 3,145,649
90 : 3,120,178
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91 : 3,138,092
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92 : 3,139,025
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93 : 3,117,514
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3,149,562
3,151,543
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95 : 3,142,248
96 : 3,139,027
3,151,547
97 : 3,116,686
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99 : 3,141,403
100 : 3,132,582
102 : 3,148,615
103 : 3,129,660
110 : 3,148,616
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111 : 3,128,697
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115 : 3,137,230
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119 : 3,147,697
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121 : 3,143,960
123 : 3,120,179
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124 : 3,120,180
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125 : 3,138,096
3,146,703
3,149,563
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126 : 3,127,833
3,146,704
128.1 : 3,162,116
.2 : 3,151,548
.3 : 3,131,628
132 : 3,150,587
.5 : 3,136,244
.5 : 3,158,091
142 : 3,132,583
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144 : 3,146,705
3,155,036
147 : 3,139,028
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148 : 3,131,629
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149.2 : 3,122,997
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.2 : 3,125,021
.2 : 3,129,661
149.2 : 3,131,630
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.2 : 3,156,183
.2 : 3,157,117
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.4 : 3,122,093
.4 : 3,122,094
.4 : 3,143,066
.4 : 3,148,617
.4 : 3,151,550
.5 : 3,141,404
152 : 3,131,631
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153 : 3,161,127
154 : 3,163,108
157 : 3,120,802
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172 : 3,130,668
177 : 3,158,092
178 : 3,161,128
180 : 3,122,999
181 : 3,120,181
3,152,542
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183 : 3,125,022
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3,140,657
199 : 3,135,196
211 : 3,130,669
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212 : 3,125,950
3,144,824
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216 : 3,138,097
3,151,551
218 : 3,129,662
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3,150,588
219 : 3,162,117
3,162,118
3,163,109
227 : 3,138,098
3,160,095
228 : 3,134,323
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232 : 3,147,701
235 : 3,128,698
240 : 3,119,327
243 : 3,142,250
247 : 3,157,118
3,163,110
248 : 3,143,962
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250 : 3,125,951
269 : 3,116,687
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297 : 3,133,499
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327 : 3,158,094
329 : 3,146,707
331 : 3,134,327
332 : 3,118,372
336 : 3,142,251
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348 : 3,118,373
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351 : 3,120,803
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364 : 3,120,804
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365 : 3,117,516
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366 : 3,134,326
367 : 3,158,095
368 : 3,158,096
375 : Re.25,681
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376 : 3,130,670
378 : 3,136,247
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379 : 3,147,705
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382 : 3,119,330
391 : 3,141,406
394 : 3,124,067
401.1 : 3,123,000
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.1 : 3,141,407
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407 : 3,135,198
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408 : 3,142,252
409 : 3,151,552
413 : 3,149,564
415.1 : 3,119,331
.1 : 3,121,388
.1 : 3,123,001
.1 : 3,125,023
.1 : 3,126,825
.1 : 3,127,834
.1 : 3,149,565
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.1 : 3,151,554
.1 : 3,152,544
.1 : 3,154,012
.1 : 3,156,184
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421 : 3,137,229
422 : 3,161,130
425 : 3,120,805
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426 : 3,120,806
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3,134,328
3,136,248
3,141,408
3,145,655

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1 : 3,154,013
3,156,185
4 : 3,152,545
7 : 3,141,409
3,148,618
8 : 3,138,100
10 : 3,151,555
13 : 3,117,517
16 : 3,143,964
18 : 3,125,953
3,152,546
3,162,119
3,162,120
19.2 : 3,135,199
20 : 3,116,689
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3,163,112
21.6 : 3,131,633
.6 : 3,150,590
.8 : 3,157,119
22 : 3,159,102
23 : 3,119,332
3,127,835
3,139,029
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24 : Re.25,685
3,117,518
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3,145,656
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27 : 3,122,097
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28 : 3,117,619
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28 : 3,142,253
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30 : 3,126,827
32 : 3,120,183
34.2 : 3,125,955
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37.4 : 3,149,566
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39 : 3,124,070
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41 : 3,127,836
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3,156,187
42 : 3,120,807
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3,162,124
43 : 3,162,125
44 : 3,120,808
45 : 3,139,030
49 : 3,118,377
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3,121,393
3,122,098
3,124,071
3,131,635
3,132,590
3,136,250
3,137,232
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3,139,032
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3,158,100
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50 : 3,117,520
3,119,333
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3,127,838
3,135,202
3,135,203
3,139,033
3,141,411
3,154,015
3,157,123
51 : 3,124,072
54 : 3,135,204
56 : 3,129,665
3,135,205
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65 : 3,117,521
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66 : 3,120,809
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67 : 3,136,251
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70.2 : 3,124,073
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.2 : 3,140,662
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72 : 3,119,336
73 : 3,135,206
74 : 3,148,621
78 : 3,117,522
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3,125,958
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79 : 3,118,379
3,136,253
81.6 : 3,119,334
84 : 3,120,810
3,129,666
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85 : 3,119,338
3,162,127
.6 : 3,143,073
.6 : 3,146,714
86.5 : 3,121,394
.5 : 3,124,075
91 : 3,123,003
3,132,591
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92.5 : 3,120,188
.5 : 3,129,667
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.5 : 3,142,256
.5 : 3,143,074
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.5 : 3,152,548
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93 : 3,130,671
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98 : 3,116,692
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3,151,559
3,157,127
3,159,104
3,163,113

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1 : 3,116,693
3,127,842
3,133,500
3,135,207
3,135,208
3,141,413
3,147,711
3,150,592
3,154,017
3,160,100
2 : 3,117,523
3,125,959
3,128,707
3,130,673
3,136,254
3,137,234
3,138,103
3,146,715
3,146,716
3,161,133
3,161,134
48 : 3,162,128
3,162,129
3 : 3,127,839
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3,134,331
3,136,255
4 : 3,137,235
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5 : 3,128,708
3,128,709
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5 : 3,149,571
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3,150,594
3,151,560
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3,158,102
6 : 3,119,339
3,133,501
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11 : 3,131,636
3,133,502
3,160,101
16 : 3,123,004
19 : 3,116,694
22 : 3,134,332
25 : 3,132,592
3,148,622
3,161,135
26 : 3,131,637
35 : 3,123,005
3,125,960
3,137,236
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37 : Re.25,553
3,117,524
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3,130,675
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3,149,573
3,150,595
3,151,561
3,155,041
3,160,102
38 : 3,118,381
3,119,340
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3,125,961
3,129,668
3,142,257
3,146,718
3,160,103
3,161,136
3,162,131
3,163,115
41 : 3,117,525
3,120,189
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3,122,100
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3,127,841
3,135,209
3,141,414
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3,161,137
3,161,138
42 : 3,125,028
3,128,710
3,139,830
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3,146,720
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3,155,042
43 : 3,124,076
44 : 3,131,638
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3,153,381
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45 : 3,123,007
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46 : 3,118,382
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47 : 3,140,664
48 : 3,142,258
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49 : 3,133,503
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50 : 3,131,639
3,162,132
51 : 3,141,415
52 : 3,131,640
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53 : 3,116,695
3,118,383
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Class 103—Con.

53 : 3,136,257
3,162,134
54 : 3,132,593
3,145,660
3,148,625
3,151,563
56 : 3,143,077
57 : 3,156,189
66 : 3,151,564
68 : 3,126,830
75 : 3,123,009
76 : 3,121,395
80 : 3,143,970
3,152,549
87 : 3,117,526
3,118,384
3,118,385
3,119,342
3,119,343
3,121,396
3,122,101
3,124,077
3,126,831
3,128,712
3,130,676
3,130,677
3,132,594
3,132,595
3,133,504
3,134,333
3,135,211
3,135,212
3,135,213
3,135,214
3,135,215
3,136,258
3,136,259
3,137,237
3,138,105
3,138,106
3,140,665
3,141,416
3,143,078
3,143,971
3,143,972
3,153,382
3,154,019
3,155,043
3,157,128
3,157,129
3,163,116
3,163,117
3,163,118
88 : 3,155,044
3,156,190
89 : 3,135,216
3,163,119
96 : 3,126,832
3,133,505
97 : 3,118,386
3,142,259
99 : 3,150,597
102 : 3,116,696
3,151,565
103 : 3,123,010
3,128,713
3,130,678
3,130,679
3,131,641
3,139,831
3,139,832
3,146,722
3,150,598
3,155,045
3,155,046
3,160,106
3,162,135
106 : 3,125,029
108 : 3,128,714
3,153,383
3,154,020
111 : 3,131,642
3,138,107
3,160,107
3,162,136
112 : 3,160,108
113 : 3,119,344
3,121,397
3,125,030
3,144,832
3,151,566
3,163,120
114 : 3,149,574
115 : 3,120,813
3,139,034
3,159,106
117 : 3,118,387
3,120,190
3,122,102
3,139,035
118 : 3,130,680
3,146,723
118 : 3,149,575
3,151,567
120 : 3,120,814
3,130,681
3,134,334
3,139,833
3,143,079
3,153,384
3,162,137
121 : 3,136,260
123 : 3,134,335
125 : 3,152,550
126 : 3,117,527
3,123,011
3,123,012
3,126,833
3,126,834
3,127,843
3,130,682
3,131,643
3,133,506
3,134,336
3,135,217
3,136,261
3,137,238
3,137,239
3,138,108
3,139,834
3,139,835
3,142,260
3,145,661
3,150,599
3,152,551
3,156,191
3,162,138
127 : 3,138,109
128 : 3,128,715
3,138,110
130 : 3,120,815
3,130,683
3,134,337
3,139,036
3,152,552
3,162,139
131 : 3,125,031
3,125,032
3,148,626
3,162,140
132 : 3,161,141
135 : 3,117,528
3,120,191
136 : 3,119,345
3,158,103
3,162,141
137 : 3,127,844
139 : 3,136,262
140 : 3,121,398
3,125,962
142 : 3,121,399
3,150,600
148 : 3,127,845
3,154,021
3,158,104
149 : 3,116,697
3,122,103
3,128,716
3,128,717
3,137,240
3,137,241
3,138,111
3,140,666
3,152,553
150 : 3,125,033
3,135,218
3,141,417
3,150,601
3,151,568
3,161,142
152 : 3,120,192
3,124,078
3,127,846
3,127,847
3,137,242
3,149,576
3,152,554
153 : 3,125,963
3,128,718
3,135,219
3,150,602
3,153,385
154 : 3,142,261
157 : 3,129,669
161 : 3,118,388
3,122,104
3,123,013
3,136,263
3,148,627
3,155,047
162 : 3,116,698
3,117,529
3,120,816
3,123,014
3,124,079
3,126,835
3,130,684
162 : 3,136,264
3,137,243
3,139,037
3,139,038
3,142,262
3,143,973
3,148,628
3,149,577
3,153,386
3,156,192
3,157,130
3,160,109
3,162,142
169 : Re.25,568
173 : 3,151,569
3,152,555
3,160,110
174 : 3,125,034
3,138,112
3,150,603
3,152,556
3,163,121
178 : 3,124,080
179 : 3,126,836
3,136,265
3,139,039
3,143,080
3,148,629
3,162,143
188 : 3,131,646
189 : 3,140,667
202 : 3,118,389
3,139,836
3,160,111
203 : 3,128,719
3,161,143
206 : 3,153,387
212 : 3,132,596
3,159,107
218 : 3,135,220
3,153,388
219 : 3,150,604
220 : 3,157,131
221 : 3,140,668
3,150,605
3,150,606
223 : 3,129,670
3,145,662
3,146,724
225 : 3,146,725
3,150,607
227 : 3,118,390
228 : 3,120,817
3,160,112
231.5 : 3,133,507
232 : 3,131,644
3,160,113
234 : 3,123,015
239 : 3,138,113
240 : 3,118,391
241 : 3,155,048
3,155,049
247 : 3,139,040
248 : 3,161,144
255 : 3,139,837
262 : 3,134,338
3,135,221
3,139,838
3,146,726
271 : 3,131,645
272 : 3,139,041

Class 104

1 : 3,120,818
3,154,022
2 : 3,117,530
3,117,531
3,120,193
3,121,400
3,127,847
3,132,597
3,135,222
5 : 3,120,819
7 : 3,134,339
3,135,223
3,141,418
3,141,419
3,144,833
3,148,630
3,149,578
3,150,608
3,153,389
3,153,390
8 : 3,137,244
3,149,579
9 : 3,160,114
12 : 3,119,346
3,120,194
3,127,848
3,143,974
3,144,834
3,146,727
3,151,570
17 : 3,120,195
3,144,835
3,163,122
18 : 3,136,266
26 : 3,141,420
3,154,023
48 : 3,136,267
60 : 3,154,024
3,163,123
88 : 3,118,392
3,126,838
3,127,849
3,140,669
3,148,631
3,156,193
89 : 3,124,081
3,125,964
3,128,720
3,134,340
3,138,114
93 : 3,116,699
3,149,580
98 : 3,124,082
3,132,598
103 : 3,144,836
120 : 3,148,632
126 : 3,154,025
128 : 3,143,975
130 : 3,139,839
134 : 3,121,401
135 : 3,163,124
138 : 3,155,050
147 : 3,134,341
148 : 3,159,109
149 : 3,163,125
152 : 3,153,391
153 : 3,143,976
162 : 3,128,721
3,131,647
3,146,728
3,148,633
3,149,581
3,162,144
166 : 3,118,393
172 : 3,119,347
3,120,196
3,130,685
3,139,840
3,148,634
3,150,609
3,158,105
3,160,115
3,161,145
173 : 3,119,348
3,137,245
3,147,713
178 : 3,140,670
200 : 3,150,610
201 : 3,128,722
202 : 3,142,263
243 : 3,119,349
245 : 3,120,197
246 : 3,143,081
3,159,110
247 : 3,126,839
260 : 3,128,723

Class 105

1 : 3,144,837
4 : 3,133,508
59 : 3,116,700
96.2 : 3,160,116
.2 : 3,163,126
108 : 3,152,557
133 : 3,152,558
136 : 3,135,224
3,138,115
3,145,663
144 : 3,143,977
3,152,559
145 : 3,132,599
3,147,714
147 : 3,122,105
148 : 3,137,246
150 : 3,134,342
153 : 3,129,671
154 : 3,123,016
155 : 3,155,051
171 : 3,121,402
190 : 3,141,421
197 : 3,127,850
199 : 3,150,611
3,150,612
215 : 3,120,820
3,120,821
3,130,686
3,134,343
240 : 3,122,106
3,161,146
248 : 3,127,851
250 : 3,161,147
251 : 3,137,247
253 : 3,121,403
253 : 3,121,404
3,121,405
3,127,852
3,133,509
3,138,116
3,139,042
3,145,664
3,149,582
3,157,132
262 : 3,123,017
3,132,600
3,161,148
273 : 3,118,394
3,120,822
3,120,823
3,126,840
282 : 3,130,687
3,138,117
308 : 3,127,853
355 : 3,162,145
360 : 3,139,841
3,139,842
366 : 3,125,035
3,125,965
3,129,672
3,140,671
3,143,082
3,144,838
3,158,106
3,159,111
3,160,117
3,161,150
367 : 3,147,715
3,159,112
368 : 3,119,350
3,130,688
3,143,083
3,143,978
3,149,583
3,157,133
3,158,107
3,159,113
3,161,151
3,163,127
3,163,128
3,163,129
369 : 3,116,701
3,116,702
3,117,532
3,125,036
3,125,966
3,130,689
3,130,690
3,131,648
3,132,603
3,137,248
3,142,264
3,146,729
3,147,716
3,151,571
3,151,572
3,154,026
3,158,108
3,160,118
3,161,149
3,163,130
376 : 3,144,839
3,162,146
377 : 3,145,665
3,155,052
378 : 3,150,613
392.5 : 3,138,118
401 : 3,131,649
3,131,650
3,151,573
402 : 3,151,574
409 : 3,161,152
416 : 3,145,666
422 : 3,132,604
3,132,605
3,145,667
423 : 3,119,351
3,123,018
3,142,265
453 : 3,151,575
455 : 3,143,979
458 : 3,161,153

Class 106

1 : 3,123,484
3,140,188
3,141,780
3,148,072
6 : 3,163,547
8 : 3,117,012
3,143,431
10 : 3,125,453
12 : 3,117,880
14 : 3,121,016
3,137,583
15 : 3,131,071
3,132,032
3,139,350
15 : 3,151,992
20 : 3,129,103
3,151,993
27 : 3,150,987
3,156,572
31 : 3,129,104
3,163,548
33 : 3,157,520
38.23: 3,146,113
.5 : 3,130,060
39 : 3,117,881
3,131,073
3,146,114
3,148,994
3,149,982
3,151,994
3,161,528
40 : 3,133,820
3,133,821
3,150,988
3,150,989
41 : 3,141,781
43 : 3,137,584
46 : 3,132,952
47 : 3,117,013
3,119,703
3,145,114
3,150,990
3,154,424
3,156,573
3,157,521
48 : 3,144,344
50 : 3,127,277
3,132,033
52 : 3,124,470
3,145,115
3,148,073
3,149,983
3,150,991
3,157,522
53 : 3,127,278
3,138,467
3,140,189
3,149,984
3,154,425
54 : 3,143,432
55 : 3,129,105
3,138,468
3,141,782
56 : 3,140,190
57 : 3,132,953
58 : Re.25,572
3,124,471
3,141,783
3,141,784
3,144,345
59 : 3,132,954
3,138,469
3,140,955
3,141,785
62 : 3,138,470
3,141,786
63 : 3,131,074
3,160,509
64 : 3,125,454
65 : 3,135,616
3,157,523
67 : 3,128,194
3,132,955
3,146,115
68 : 3,121,640
71 : 3,132,956
3,143,433
72 : 3,148,995
74 : 3,149,985
75 : 3,136,645
3,144,346
84 : 3,124,472
3,124,473
3,126,290
3,130,061
3,132,957
3,132,958
3,138,471
86 : 3,118,778
87 : 3,133,822
3,148,996
88 : 3,119,704
3,138,472
89 : 3,139,351
3,140,956
3,151,995
3,155,526
3,159,497
90 : 3,117,882
3,126,291
3,131,075
3,144,347
97 : 3,147,126
98 : 3,118,779
3,135,617
99 : 3,147,127
100 : 3,135,618
104 : 3,150,992
105 : 3,147,128
109 : 3,147,129
115 : 3,153,596
119 : 3,120,444
3,149,986
122 : 3,131,076
3,157,524
123 : 3,128,195
3,132,034
124 : 3,163,549
139 : 3,153,597
148 : 3,123,485
3,132,035
154 : 3,125,455
162 : 3,123,486
3,158,493
165 : 3,146,116
3,156,574
3,162,541
3,163,550
168 : 3,136,644
171 : 3,130,062
189 : 3,124,474
3,125,456
3,137,585
193 : 3,163,551
197 : 3,148,074
200 : 3,162,542
205 : 3,138,473
210 : 3,136,646
3,145,116
3,150,993
3,155,527
213 : 3,117,014
3,151,996
220 : 3,119,705
238 : 3,153,598
248 : 3,135,619
252 : 3,141,787
253 : 3,121,017
3,123,487
254 : 3,140,191
263 : 3,152,916
268 : 3,123,488
270 : 3,132,959
3,146,117
271 : 3,144,348
3,152,917
273 : 3,129,106
277 : 3,126,292
3,142,578
278 : 3,117,015
3,146,118
3,155,528
280 : 3,133,823
285 : 3,129,107
286 : 3,120,445
3,137,586
3,151,997
287 : 3,127,279
3,132,960
3,148,997
3,151,998
3,157,525
3,159,496
3,163,552
288 : 3,148,075
3,156,575
3,160,510
291 : 3,123,489
3,123,490
3,138,475
292 : 3,136,647
297 : 3,118,780
3,151,999
299 : 3,148,998
300 : 3,117,883
3,121,641
3,127,280
3,141,788
3,146,119
3,147,130
3,147,131
3,152,000
302 : 3,136,648
306 : 3,131,072
3,133,824
3,152,001
307 : 3,117,016
3,140,192
308 : 3,128,196
3,130,063
3,132,961
3,156,576
3,159,498
309 : 3,119,706
3,126,293
310 : 3,124,475

Class 107

1 : 3,119,352
3,119,353
3,125,037

1 : 3,126,841
3,129,673
3,131,651
3,132,606
3,135,225
3,136,268
3,138,119
3,139,043
3,142,266
3,142,267
3,147,717
3,149,584
3,150,614
3,161,154
4 : 3,116,703
3,118,395
3,131,652
3,131,653
3,132,607
3,135,226
3,146,730
3,157,134
3,161,155
7 : 3,125,038
3,139,044
3,148,635
8 : Re.25,536
3,118,396
3,118,397
3,125,967
3,138,120
3,139,843
3,155,053
3,160,119
9 : 3,121,406
3,125,039
3,143,084
12 : 3,129,674
3,146,731
3,155,054
14 : 3,126,842
3,129,675
3,130,691
3,134,344
3,139,844
3,143,085
3,144,840
3,149,585
3,152,560
3,153,392
3,154,027
3,162,147
3,163,131
15 : 3,122,107
3,124,083
3,155,055
17 : 3,158,109
19 : 3,128,724
3,161,156
29 : 3,132,608
3,161,157
30 : 3,125,968
36 : 3,155,056
50 : 3,157,135
52 : 3,158,110
54 : 3,119,354
3,128,725
3,156,194
3,156,195
3,158,111
57 : 3,119,355
3,127,854
68 : 3,142,268
69 : 3,120,198

Class 108

1 : 3,136,269
2 : 3,131,654
3,151,576
3,161,158
3,161,159
4 : 3,156,196
6 : 3,120,199
3,161,160
8 : 3,119,356
3,136,270
9 : 3,146,732
3,150,615
10 : 3,162,148
16 : 3,150,616
18 : 3,125,040
20 : 3,120,824
3,142,269
21 : 3,123,019
26 : 3,148,636
27 : 3,137,249
3,156,197
28 : 3,118,398
29 : 3,137,250
32 : 3,121,407
33 : 3,129,676
3,133,510
36 : 3,144,841
36 : 3,158,112
38 : 3,159,114
46 : 3,125,969
3,151,577
3,151,578
49 : 3,118,399
50 : 3,129,677
51 : 3,119,357
3,120,825
3,122,108
3,123,020
3,130,692
3,131,655
3,159,115
52 : 3,126,843
3,146,733
53 : 3,123,021
3,135,227
3,140,672
3,140,673
3,159,116
3,160,120
55 : 3,133,511
3,135,228
56 : 3,131,656
3,141,422
58 : 3,118,400
3,148,637
3,149,586
60 : 3,117,533
3,117,534
3,117,535
3,125,041
3,154,028
64 : 3,124,084
3,158,113
69 : 3,138,121
79 : 3,162,149
81 : 3,143,086
3,161,161
93 : 3,145,668
96 : 3,142,270
101 : 3,120,826
106 : 3,132,609
107 : 3,120,200
108 : 3,130,693
3,143,980
3,143,981
3,148,638
109 : 3,125,970
3,139,045
110 : 3,137,251
111 : 3,117,536
3,126,844
3,136,271
3,141,423
3,146,734
3,146,735
3,146,736
3,150,617
112 : 3,128,726
3,138,122
3,148,639
113 : 3,140,674
3,141,424
3,143,982
115 : 3,124,085
116 : 3,143,087
117 : 3,126,845
3,151,579
3,152,561
118 : 3,136,272
119 : 3,139,845
3,151,580
120 : 3,141,425
125 : 3,125,971
129 : 3,123,022
3,128,727
133 : 3,146,737
135 : 3,125,042
3,146,738
136 : 3,123,023
3,123,024
3,123,829
3,154,029
144 : 3,120,201
3,143,088
147 : 3,162,150
148 : 3,145,669
152 : 3,149,587
3,163,132
155 : 3,157,136
157 : 3,160,121
159 : 3,138,123

Class 109

1 : 3,118,401
3,119,358
3,138,124
3,142,271
3,150,618
3,155,057
3,159,117
1 : 3,159,118
5 : 3,148,640
19 : 3,137,252
36 : 3,120,202
49.5 : 3,127,855
52 : 3,146,739
59 : 3,139,046
64 : 3,143,983
72 : 3,139,047
76 : 3,128,728
83 : 3,123,025

Class 110

1 : 3,116,704
3,121,408
3,122,109
3,159,119
3 : 3,136,273
7 : 3,124,086
3,156,198
8 : 3,150,619
3,151,581
3,152,562
3,156,199
18 : 3,123,026
3,137,253
3,141,426
3,159,120
3,160,122
3,163,133
3,163,134
28 : 3,123,027
3,125,043
3,140,675
3,143,089
3,145,670
29 : 3,157,138
38 : 3,126,846
52 : 3,117,537
56 : 3,117,538
3,117,539
3,156,200
72 : 3,124,087
97 : 3,151,582
99 : 3,129,678
3,133,512
3,139,048
3,139,846
3,140,676
3,144,842
3,148,641
3,161,162
3,162,151
106 : 3,121,409
160 : 3,134,345
162 : 3,158,114
163 : 3,123,028
173 : 3,123,029
3,133,513
179 : 3,142,272

Class 111

1 : 3,128,729
3,149,588
3,154,030
3,159,121
3,160,123
2 : 3,125,044
3 : 3,132,610
3,139,847
3,145,671
3,155,058
3,161,163
4 : 3,122,110
3,126,847
3,150,620
6 : 3,136,274
3,143,090
7 : 3,130,694
3,139,848
3,146,740
3,148,642
3,154,031
3,157,139
3,162,152
.1 : 3,118,402
.1 : 3,142,273
.1 : 3,143,984
.4 : 3,148,643
8 : 3,140,677
10 : 3,139,049
34 : 3,117,540
3,123,030
3,136,275
3,142,274
36 : 3,133,515
51 : 3,142,275
3,162,153
52 : 3,138,125
3,144,843
3,158,115
3,161,164
54 : 3,117,541
59 : 3,131,657
67 : 3,140,678
77 : 3,154,032
3,156,201
79 : 3,148,644
80 : 3,122,111
83 : 3,119,359
86 : 3,134,346
95 : 3,147,718

Class 112

2 : 3,116,705
3,123,031
3,128,730
3,133,514
3,143,091
3,147,719
3,150,621
3,151,583
3,151,584
3,156,202
3,156,203
3,156,204
3,159,122
3,160,124
3,162,154
3 : 3,122,112
10 : 3,126,848
25 : 3,119,360
3,153,393
27 : 3,120,203
38 : 3,139,050
62 : 3,130,695
75 : 3,137,254
77 : 3,117,542
3,121,410
3,127,856
3,132,611
3,146,741
79 : 3,118,403
3,119,361
3,132,612
3,138,126
3,152,563
3,155,059
3,160,125
3,162,155
80 : 3,142,276
3,144,844
83 : 3,125,045
90 : 3,161,165
105 : 3,143,092
107 : 3,123,032
3,151,585
110 : 3,121,411
3,125,046
3,132,613
3,140,679
113 : 3,127,857
3,151,586
114 : 3,163,135
117 : 3,147,720
118 : Re.25,575
3,125,047
3,127,858
119 : 3,158,116
123 : 3,125,048
3,149,589
3,151,587
124 : 3,135,229
127 : 3,149,590
130 : 3,146,742
3,163,136
132 : 3,133,516
134 : 3,157,140
139 : 3,125,972
140 : 3,121,412
3,134,347
3,137,255
143 : 3,142,277
151 : 3,140,680
3,146,743
152 : 3,154,033
153 : 3,155,060
154 : 3,130,696
158 : 3,118,404
3,126,849
3,130,697
3,131,658
3,132,614
3,137,256
3,137,257
3,143,985
3,148,645
3,148,646
3,149,591
3,156,205
3,160,126
3,162,156
162 : 3,116,706
3,126,850
3,145,672
169 : 3,127,859
173 : 3,129,679
174 : 3,116,707
176 : 3,154,034
3,162,157
178 : 3,143,986
181 : 3,143,093
3,145,673
3,155,061
3,163,137
184 : 3,125,049
3,138,127
3,154,035
186 : 3,125,973
197 : 3,123,033
3,150,622
200 : 3,121,413
3,141,427
204 : 3,139,051
207 : 3,162,158
209 : 3,160,127
210 : 3,149,592
3,157,141
211 : 3,141,428
218 : 3,122,113
3,129,680
219 : 3,124,088
3,125,050
3,126,851
3,142,278
3,149,593
3,159,123
3,160,128
3,163,138
220 : 3,123,034
3,125,051
3,141,429
3,157,142
228 : 3,120,204
3,140,681
3,151,589
232 : 3,146,744
235 : 3,143,094
237 : 3,141,430
240 : 3,145,674
242 : 3,140,682
252 : 3,118,405
3,124,089
3,125,052
3,136,276
3,139,849
3,141,431
3,141,432
3,142,279
3,143,987
3,149,594
3,149,595
3,158,117
3,159,124
256 : 3,146,745
258 : 3,126,852
3,145,675
3,150,623
260 : 3,131,659
3,131,660
3,159,125
262 : 3,123,035
3,136,277
3,156,206
3,163,139
265 : 3,135,230
3,154,036
3,158,118
410 : 3,139,052
412 : 3,155,062
421 : 3,126,853
427 : 3,134,348
3,151,588

Class 113

1 : 3,160,129
7 : 3,130,698
3,143,988
32 : 3,132,615
3,135,231
33 : 3,118,406
3,122,114
3,139,053
3,145,576
3,148,647
34 : 3,154,037
35 : 3,122,115
3,132,616
3,139,850
3,146,746
3,155,063
38 : 3,118,407
3,130,699
3,138,128
42 : 3,147,721
3,147,722
43 : 3,128,731
44 : 3,120,205
44 : 3,120,827
3,124,090
3,127,860
3,128,732
3,131,661
3,134,349
3,143,989
3,149,596
3,151,590
3,154,038
3,158,119
3,160,130
3,163,140
3,163,141
45 : 3,124,091
3,125,053
3,147,723
3,162,159
3,163,142
3,163,143
3,163,144
46 : 3,152,564
3,152,565
49 : 3,124,092
3,125,974
3,134,350
3,137,258
51 : 3,147,724
52 : 3,120,206
3,120,207
3,127,861
3,131,662
3,137,259
3,144,845
3,145,677
3,147,725
53 : 3,141,433
54 : 3,143,095
3,147,726
55 : 3,120,828
59 : 3,151,591
3,163,145
80 : 3,122,116
95 : 3,122,117
97 : 3,148,648
98 : 3,144,846
99 : 3,119,362
3,122,118
3,125,054
3,128,733
3,128,734
3,128,735
3,135,232
3,140,683
3,155,064
3,159,126
3,159,127
3,161,166
102 : 3,128,736
3,149,597
3,162,160
105 : 3,125,055
109 : 3,146,747
110 : 3,158,120
111 : 3,152,566
3,157,143
115 : 3,143,990
116 : 3,160,131
118 : 3,152,567
3,158,122
3,160,132
120 : 3,125,056
3,127,862
3,133,517
3,149,598
121 : 3,142,280
3,146,748
3,146,749
124 : 3,124,093
3,126,854
3,140,684
3,150,624
126 : 3,119,363
3,151,592
3,163,146
129 : 3,159,128
131 : 3,131,663
3,159,129
133 : 3,162,161
134 : 3,132,617
3,158,121

Class 114

.5 : 3,118,408
.5 : 3,128,737
.5 : 3,142,281
.5 : 3,147,727
.5 : 3,152,568
.5 : 3,154,039
.5 : 3,157,144
.5 : 3,159,130
.5 : 3,163,147
16 : 3,120,208
16 : 3,125,975
3,127,863
3,129,681
3,131,664
3,134,351
3,139,054
3,139,055
3,148,650
3,157,145
3,158,123
3,160,133
3,163,148
.5 : 3,146,750
20 : 3,120,209
3,130,700
3,132,618
3,134,352
3,134,353
3,138,129
3,141,434
3,145,678
3,150,625
3,153,394
3,153,395
3,154,040
3,161,167
3,162,163
3,162,164
21 : 3,148,651
3,158,124
3,161,168
22 : 3,139,056
23 : 3,118,409
3,125,976
3,140,685
3,145,679
3,156,207
3,161,169
3,162,162
25 : 3,118,410
3,154,041
3,156,208
28 : 3,117,543
39 : 3,132,620
3,141,435
3,161,170
40 : 3,130,701
43 : 3,139,057
.5 : 3,143,991
.5 : 3,152,569
45 : 3,126,855
47 : 3,133,518
49 : 3,123,036
52 : 3,143,096
53 : 3,149,599
54 : 3,162,165
56 : 3,117,544
3,140,686
3,158,125
57 : 3,138,130
61 : 3,116,708
3,139,058
3,143,992
65 : 3,129,682
66.5 : 3,117,548
.5 : 3,117,546
.5 : 3,117,547
.5 : 3,118,411
.5 : 3,120,210
.5 : 3,121,414
.5 : 3,124,094
.5 : 3,126,856
.5 : 3,130,702
.5 : 3,131,665
.5 : 3,132,619
.5 : 3,137,260
.5 : 3,137,261
.5 : 3,139,059
.5 : 3,141,436
.5 : 3,141,437
.5 : 3,143,097
.5 : 3,146,457
.5 : 3,146,751
.5 : 3,148,652
.5 : 3,149,600
.5 : 3,149,601
.5 : 3,149,602
.5 : 3,150,626
.5 : 3,151,593
.5 : 3,156,209
.5 : 3,157,146
.5 : 3,159,131
.5 : 3,160,134
.5 : 3,162,166
.5 : 3,162,167
67 : 3,125,977
3,137,262
3,140,687
3,146,752
3,161,171
68 : 3,118,412
3,118,413
3,118,414
3,122,119

Class 114—Con.

68 : 3,129,683
3,134,354
3,141,438
69 : 3,152,570
72 : 3,138,131
3,162,168
3,162,169
74 : 3,129,684
3,145,680
3,147,728
3,150,627
3,157,147
75 : 3,144,847
76 : 3,138,132
77 : 3,145,681
84 : 3,156,210
90 : 3,157,148
98 : 3,118,415
102 : 3,120,211
3,142,282
3,149,603
104 : 3,157,149
108 : 3,124,095
3,129,685
3,132,621
3,147,729
121 : 3,145,682
122 : 3,155,065
123 : 3,150,628
125 : 3,133,519
3,137,263
3,155,066
3,160,135
3,160,136
126 : 3,125,057
3,126,857
132 : 3,139,851
144 : 3,127,864
3,129,686
3,133,520
3,138,133
3,140,688
3,145,683
3,148,653
3,148,654
145 : 3,158,126
146 : 3,128,738
148 : 3,127,865
152 : 3,124,096
162 : 3,120,829
3,159,132
163 : 3,147,730
183 : 3,120,212
3,146,753
185 : 3,155,067
199 : 3,129,687
3,146,754
202 : 3,149,604
203 : 3,155,068
206 : 3,118,416
3,118,417
3,130,703
3,150,629
3,151,594
3,154,042
3,158,127
208 : 3,120,830
3,123,037
3,123,038
3,136,278
3,138,134
209 : 3,134,355
210 : 3,143,993
3,147,731
3,158,128
218 : 3,118,418
3,125,058
3,125,978
3,126,858
3,126,859
3,145,684
219 : 3,125,979
3,145,686
220 : 3,145,685
222 : 3,142,283
230 : 3,120,831
3,122,120
3,126,860
3,129,688
3,133,521
3,138,135
3,139,852
3,142,284
3,151,595
3,155,069
3,157,150
235 : 3,125,059
3,125,980
3,130,704
3,132,622
3,134,356
3,137,264
235 : 3,144,848
3,147,732
3,150,630
3,152,571
238 : 3,162,170

Class 115

67 : 3,127,867
3,136,290
3,139,063
3,144,850
70 : 3,117,550
3,119,367
3,125,062
3,125,063
3,128,743
3,131,667
3,140,690
3,146,757
3,150,633
3,154,049
3,125,983
91 : 3,131,668
3,131,669
3,147,735
102 : 3,119,368
106 : 3,148,658
114 : 3,118,421
3,119,369
3,125,984
3,126,861
3,135,236
3,136,291
3,136,292
3,136,293
3,137,268
3,139,064
3,141,440
3,143,997
3,149,606
3,156,211
3,159,136
3,161,174
115 : 3,136,294
3,151,598
3,160,137
3,162,172
.5 : 3,132,625
116 : 3,125,985
117 : 3,122,124
3,142,287
3,158,130
118 : 3,136,295
3,152,572
3,161,175
119 : 3,126,862
3,137,269
3,143,998
3,158,131
3,159,137
121 : 3,151,599
124 : 3,122,125
3,125,064
3,132,626
3,132,627
3,148,659
3,150,634
3,150,635
3,154,050
3,154,051
.1 : 3,135,237
.2 : 3,149,607
.4 : 3,118,422
129 : 3,116,711
3,123,042
3,126,863
3,129,691
3,131,670
3,138,137
3,143,098
3,162,173
130 : 3,142,288
132 : 3,132,628
133 : 3,120,213
3,126,864
3,148,660
135 : 3,139,854
3,162,174
136.5 : 3,130,705
137 : 3,117,551
3,118,423
3,123,043
3,124,099
3,125,986
3,131,671
3,133,523
3,138,138
3,143,999
3,144,851
3,156,212
3,157,151
3,157,152
3,157,153
3,157,154
3,160,138
57 : 3,159,135
60 : 3,123,040
63 : 3,123,041
3,132,624
3,135,235
3,147,734
3,127,868
3,127,869
3,139,855
3,119,370
3,124,100
3,127,868
3,127,869
3,158,132

Class 117

.5 : 3,132,036
2 : 3,159,499
3.5 : 3,128,197
4 : 3,121,018
3,127,281
3,136,649
3,137,587
3,138,476
3,143,434
3,148,999
3,154,426
5.3 : 3,126,294
.5 : 3,121,019
.5 : 3,131,077
.5 : 3,139,352
.5 : 3,149,987
.5 : 3,155,534
6 : 3,140,957
3,140,958
3,144,349
7 : 3,122,443
3,135,620
3,160,511
3,163,553
8 : 3,123,491
3,131,078
3,140,193
3,155,529
9 : 3,132,962
10 : 3,122,444
15 : 3,121,642
3,134,684
3,140,194
16 : 3,117,017
17 : 3,125,457
3,155,530
.1 : 3,119,710
.1 : 3,122,446
.1 : 3,160,515
.2 : 3,119,711
.2 : 3,133,826
.2 : 3,135,625
.2 : 3,137,588
.2 : 3,152,003
.2 : 3,156,579
63 : 3,131,083
3,152,918
64 : 3,148,080
3,148,081
3,157,528
65.2 : 3,125,461
.2 : 3,138,480
.2 : 3,143,436
.2 : 3,145,118
66 : 3,130,068
3,149,995
68 : 3,132,040
3,161,532
.5 : 3,152,921
.5 : 3,161,533
69 : 3,133,827
3,157,529
3,161,534
3,161,535
3,161,536
3,161,537
72 : 3,123,495
3,128,200
3,149,996
3,159,500
73 : 3,117,019
3,141,789
75 : 3,119,712
3,136,653
3,140,196
3,156,580
76 : 3,130,069
3,132,041
3,132,042
3,149,997
3,152,004
3,156,581
3,157,530
3,160,516
3,162,543
93.3 : 3,160,517
.31: 3,132,966
.31: 3,133,828
.31: 3,140,197
.4 : 3,129,112
.4 : 3,144,350
.4 : 3,147,137
.42: 3,128,201
37 : 3,135,621
3,155,531
38 : 3,120,449
3,132,965
3,140,959
3,160,514
41 : 3,154,427
43 : 3,118,783
3,125,459
44 : 3,125,460
45 : 3,117,886
3,131,081
3,149,994
3,158,494
3,163,554
46 : 3,119,708
3,120,450
3,126,296
3,158,495
47 : 3,119,709
3,122,445
3,124,476
3,130,067
3,135,622
3,138,478
3,138,479
3,142,581
3,142,582
3,155,532
3,157,527
49 : 3,131,082
3,147,135
50 : 3,123,493
3,156,578
51 : 3,129,111
53 : 3,135,623
54 : 3,147,136
3,155,533
56 : 3,135,624
59 : 3,158,496
60 : 3,136,652
3,146,121
62 : 3,123,494
3,133,825
3,142,583
3,148,079
3,161,531
3,119,710
3,122,446
3,160,515
3,119,711
3,133,826
3,135,625
3,137,588
3,152,003
3,156,579
3,131,083
3,152,918
3,121,644
3,130,072
3,150,994
3,152,009
3,148,082
3,133,830
3,159,503
3,132,045
3,119,715
3,121,645
3,120,452
3,131,086
3,134,686
3,136,657
3,143,437
3,144,351
3,144,352
3,144,353
3,149,998
3,150,995
3,152,919
3,152,920
3,155,537
3,163,556
3,149,999
3,158,501
3,125,462
3,131,087
3,140,198
3,150,000
3,154,429
3,161,538
3,122,447
3,126,297
3,137,589
3,119,716
3,147,138
3,135,627
3,161,539
3,127,284
3,134,687
3,139,355
3,152,922
3,154,430
3,157,533
3,123,496
3,126,298
161 : 3,131,088
3,134,688
3,138,481
3,154,431
200 : 3,124,478
201 : 3,128,203
3,137,590
3,145,120
3,148,083
3,160,520
205 : 3,124,479
211 : Re.25,651
3,118,785
3,118,786
3,118,787
3,122,448
3,142,585
3,148,084
3,154,432
212 : 3,117,022
3,118,788
3,132,046
3,134,689
3,141,791
3,146,125
3,148,085
3,157,534
3,158,502
3,158,503
213 : 3,118,789
3,122,449
3,134,690
3,148,086
3,153,600
3,158,504
3,160,521
215 : 3,121,022
3,131,089
3,134,691
3,142,586
3,158,505
216 : 3,158,506
217 : 3,120,453
3,161,540
221 : 3,119,717
3,128,204
226 : 3,130,073
227 : 3,117,023
3,136,658
3,149,002
228 : 3,120,454
229 : 3,121,023
3,160,522
230 : 3,122,450
3,123,497
3,127,285
232 : 3,122,451
3,161,541

Class 118

1 : 3,121,646
3,134,692
2 : 3,121,024
3,125,463
3,130,074
3,138,482
3,146,126
3,152,923
3,155,538
3 : 3,135,628
4 : 3,126,299
3,134,693
5 : 3,134,694
3,161,542
6 : 3,129,113
3,141,792
7 : 3,157,535
8 : 3,130,075
3,130,076
3,148,087
3,153,601
9 : 3,131,090
11 : 3,136,659
3,155,539
3,163,557
13 : 3,137,591
19 : 3,123,498
20 : 3,133,831
24 : 3,129,114
3,136,660
3,152,010
34 : 3,149,003
40 : 3,144,354
41 : 3,147,139
44 : 3,118,790
3,144,355
47 : 3,131,091
3,147,140
49 : 3,117,024
3,117,025
3,123,499
3,128,205
3,158,507

49.1 : 3,126,300
.1 : 3,142,587
.1 : 3,147,141
.5 : 3,134,695
50 : 3,128,206
52 : 3,132,967
58 : 3,146,127
3,150,001
59 : 3,154,433
60 : 3,124,480
3,124,481
3,155,540
64 : 3,146,128
3,158,508
65 : 3,132,047
3,149,004
68 : 3,119,718
70 : 3,149,005
75 : 3,146,129
76 : 3,160,523
102 : 3,150,996
104 : 3,143,438
105 : 3,125,464
119 : 3,132,048
122 : 3,140,960
123 : 3,121,025
125 : 3,162,544
126 : 3,128,207
202 : 3,121,647
3,145,121
203 : 3,155,541
3,162,545
211 : 3,117,889
3,152,011
212 : 3,117,890
3,162,546
215 : 3,117,026
225 : 3,157,536
244 : 3,125,465
245 : 3,154,434
249 : 3,150,002
264 : 3,132,049
300 : 3,141,793
301 : 3,147,142
303 : 3,117,027
3,155,542
305 : 3,147,143
306 : 3,130,077
313 : 3,132,968
404 : 3,117,028
405 : 3,155,543
407 : 3,142,588
3,150,997
408 : 3,118,791
3,135,629
3,138,483
410 : 3,135,630
3,155,544
413 : 3,131,092
415 : 3,136,661
420 : 3,147,144
426 : 3,123,500
3,133,832
428 : 3,122,452
429 : 3,123,501
3,125,466
3,131,093
500 : 3,159,504
501 : 3,156,583
503 : 3,138,484
3,163,558
505 : 3,130,078
3,141,794
621 : 3,117,029
3,155,545
3,161,543
624 : 3,147,145
627 : 3,147,146
637 : 3,117,030
3,117,891
3,122,453
3,122,454
3,122,455
3,124,482
3,124,483
3,124,484
3,129,115
3,130,079
3,132,050
3,132,969
3,133,833
3,133,834
3,140,199
3,145,122
3,147,147
3,150,003
3,150,004
3,152,012
3,152,924
3,155,546
3,158,509
3,160,524
3,161,544
643 : 3,124,485

Class 119

1 : 3,120,834
3,123,044
3,123,045
3,141,441
3,148,649
3,152,573
3,154,052
3,155,072
3,158,133
3,158,134
3,160,139
3,162,175
3 : 3,116,712
3,118,424
3,122,126
3,128,744
3,158,135
4 : 3,126,865
5 : 3,119,371
3,121,417
3,125,065
3,135,238
3,140,691
3,141,442
3,149,608
3,150,636
3,152,574
14.04: 3,116,713
.14: 3,125,066
.17: 3,159,138
.18: 3,116,714
.18: 3,149,609
.28: 3,117,553
.36: 3,139,856
.46: 3,139,857
.5 : 3,148,661
.52: 3,158,136
.54: 3,150,637
.55: 3,125,067
15 : 3,129,692
3,148,662
3,163,149
.5 : 3,127,870
.5 : 3,154,053
.5 : 3,163,150
16 : 3,129,693
3,137,270
3,148,663
17 : 3,125,068
3,159,139
18 : 3,119,372
3,122,127
3,126,866
3,160,140
19 : 3,126,867
3,144,852
3,147,736
3,156,213
3,157,155
3,163,151
20 : 3,125,988
21 : 3,126,868
22 : 3,124,101
3,134,358
3,158,137
3,160,141
23 : 3,130,706
3,135,239
3,163,152
26 : 3,138,139
27 : 3,122,128
3,127,871
28 : 3,119,373
29 : 3,119,374
3,123,046
3,137,271
3,159,140
3,159,141
.5 : 3,123,047
.5 : 3,126,869
31 : 3,139,858
35 : 3,147,737
43 : 3,147,738
45 : 3,131,672
3,144,000
3,157,156
48 : 3,118,425
3,119,375
3,124,102
3,134,359
3,139,065
3,139,859
51 : 3,122,129
3,124,103
3,125,069
3,126,870
3,134,360
3,140,692
3,140,693
3,145,690
3,149,610
3,151,600
51 : 3,156,214
.11: 3,157,157
.11: 3,157,158
.12: 3,124,104
.12: 3,137,272
.5 : 3,147,739
52 : Re.25,589
3,116,715
3,116,716
3,117,554
3,120,835
3,123,048
3,123,049
3,123,050
3,125,989
3,125,990
3,126,871
3,126,872
3,130,707
3,136,296
3,139,860
3,156,215
3,157,159
3,159,142
3,159,143
53 : 3,130,708
3,134,361
3,139,861
3,144,001
3,154,054
.5 : 3,125,070
56 : 3,125,991
3,131,673
3,139,862
3,144,002
3,152,575
61 : 3,121,418
3,124,105
62 : 3,121,419
71 : 3,122,130
72 : 3,122,131
3,150,638
3,152,576
.5 : 3,127,872
.5 : 3,149,611
75 : 3,118,426
3,126,837
3,126,873
3,128,745
3,144,003
3,144,853
78 : 3,133,524
3,150,639
79 : 3,157,160
80 : 3,138,140
81 : 3,129,694
82 : 3,148,664
83 : 3,145,691
92 : 3,160,142
96 : 3,150,640
3,153,399
3,160,143
98 : 3,155,073
99 : 3,128,746
3,135,240
3,152,577
3,161,176
103 : 3,120,836
3,130,709
3,137,273
3,138,141
3,145,692
106 : 3,131,674
110 : 3,139,863
119 : 3,123,051
3,133,525
124 : 3,123,052
143 : 3,141,443
3,143,099
147 : 3,127,873
154 : 3,117,555
3,125,992
156 : 3,141,444
157 : Re.25,623
3,116,717
3,118,427
3,135,241
3,137,274
3,144,004
3,156,216
3,159,144
159 : 3,118,428
160 : 3,150,641

Class 120

1 : 3,124,106
3,131,675
3,146,758
6 : 3,157,161
14.5 : 3,152,578
.9 : 3,119,376
.9 : 3,140,694
18 : 3,137,275
18 : 3,139,066
3,149,612
22 : Re.25,514
24 : 3,161,177
32 : 3,152,579
3,157,162
33 : 3,129,695
3,152,580
3,153,400
35 : 3,116,718
3,132,629
3,143,100
42.03: 3,120,837
.03: 3,125,993
.03: 3,130,710
.03: 3,133,526
.03: 3,137,276
.03: 3,144,005
.03: 3,147,740
.06: 3,120,214
.06: 3,120,215
.1 : 3,158,138
.13: 3,130,712
.13: 3,135,242
.13: 3,143,101
.4 : 3,119,377
.4 : 3,122,132
.4 : 3,124,107
.4 : 3,125,071
.4 : 3,127,874
.4 : 3,129,696
.4 : 3,130,711
.4 : 3,139,864
.4 : 3,140,695
.4 : 3,162,176
44 : 3,126,874
45.4 : 3,134,362
.4 : 3,138,142
.6 : 3,134,363
47 : 3,147,741
48 : 3,153,401
50 : 3,116,719
3,154,055
92 : 3,134,364
96 : 3,125,994
3,128,747
3,134,365
3,152,581
106 : 3,154,056
108 : 3,120,216
3,139,865
109 : 3,116,720

Class 122

1 : 3,148,665
3,159,145
4 : 3,117,556
3,117,557
3,119,378
3,119,379
3,125,072
6 : 3,117,558
3,139,866
.6 : 3,137,277
7 : 3,118,429
3,147,742
3,153,402
3,163,153
17 : 3,124,108
18 : 3,139,067
31 : 3,136,297
3,139,068
32 : 3,117,559
3,130,713
3,139,069
3,147,743
3,162,177
33 : 3,132,630
3,147,744
3,150,642
34 : 3,116,721
3,123,053
3,129,697
3,139,070
3,141,445
95 : 3,162,178
135 : 3,123,054
136 : 3,133,527
3,144,854
149 : 3,120,838
235 : 3,123,055
3,127,875
3,135,243
3,144,855
3,145,693
3,149,613
3,149,614
3,157,163
3,160,144
240 : 3,130,714
3,135,244
3,135,245
3,135,246
250 : 3,118,430
276 : 3,127,876
318 : 3,161,178
321 : 3,161,179
333 : 3,118,431
336 : 3,136,298
356 : 3,121,420
3,135,247
367 : 3,160,145
379 : 3,125,073
382 : 3,132,631
3,139,071
3,156,217
392 : 3,137,278
3,163,154
406 : 3,120,839
3,124,109
3,125,995
3,127,877
3,133,528
3,135,248
3,135,249
3,135,250
3,135,251
3,135,252
3,138,143
3,139,867
3,144,856
3,154,057
3,162,179
407 : 3,134,366
448 : 3,134,367
451 : 3,126,875
3,130,715
3,131,676
3,134,368
3,136,299
3,162,180
476 : 3,139,868
478 : 3,117,560
3,146,759
3,146,760
3,160,146
479 : 3,133,529
3,136,300
3,139,869
3,146,761
3,146,762
3,150,643
3,150,644
3,151,601
3,155,074
3,155,075
3,155,076
3,155,077
3,155,078
3,155,079
3,161,180
480 : 3,136,301
481 : 3,146,763
494 : 3,124,110
3,143,102
497 : 3,148,666
498 : 3,120,217
3,149,615
3,155,080
3,156,218
504 : 3,137,279
3,149,616
3,158,139
510 : 3,129,698
3,156,219
3,159,146
3,163,155

Class 123

1 : 3,120,218
3,129,699
3,131,677
3,150,645
3,161,181
8 : 3,116,722
3,117,561
3,125,996
3,126,876
3,131,678
3,131,679
3,134,369
3,134,370
3,136,302
3,139,072
3,141,446
3,144,006
3,148,667
3,156,220
3,156,221
3,156,222
3,163,156
11 : 3,136,303
3,144,007
13 : 3,117,562
14 : 3,137,280
3,160,147
15 : 3,155,081
16 : 3,117,563
3,118,432
3,121,421
3,132,632
3,136,304
3,140,696
3,150,646
3,152,582
17 : 3,125,074
25 : 3,141,447
3,145,694
26 : 3,141,448
27 : 3,144,857
3,152,583
30 : 3,125,075
32 : Re.25,578
3,124,111
3,125,076
3,125,077
3,125,078
3,125,079
3,125,080
3,127,878
3,132,633
3,139,870
3,140,697
3,144,008
3,146,764
3,148,668
3,154,058
3,154,059
3,154,152
3,156,223
3,161,182
33 : 3,117,564
41.01: 3,123,056
.01: 3,162,181
.02: 3,137,281
.05: 3,155,082
.08: 3,126,877
.08: 3,162,182
.08: 3,162,183
.09: 3,125,081
.09: 3,163,157
.12: 3,120,219
.15: 3,138,144
.15: 3,153,403
.29: 3,139,073
.31: 3,118,433
.31: 3,134,371
.31: 3,144,858
.32: 3,157,164
.38: 3,136,306
.39: 3,161,188
.49: 3,144,859
.49: 3,155,083
.51: 3,158,140
.54: 3,132,634
.57: 3,117,565
.57: 3,160,148
.66: 3,120,840
.72: 3,127,879
.74: 3,145,695
.76: 3,159,147
.77: 3,123,057
.77: 3,125,082
.77: 3,155,084
.82: 3,159,148
.83: 3,156,224
.85: 3,127,880
43 : 3,139,871
3,161,183
46 : 3,116,723
3,118,434
3,120,220
3,127,881
3,130,716
3,134,372
3,146,765
3,149,617
3,157,165
3,159,149
3,161,184
47 : 3,151,602
48 : 3,124,112
3,150,647
51 : 3,117,566
3,134,373
3,138,145
3,139,074
3,139,075
52 : 3,121,422
55 : 3,116,724
3,123,058
3,142,289
56 : 3,129,700
3,129,701
59 : 3,145,696
65 : 3,136,305
3,160,149
73 : 3,117,380
3,123,059
3,128,748
73 : 3,132,635
74 : 3,131,680
75 : 3,124,113
78 : 3,161,185
80 : 3,133,530
90 : 3,120,221
3,124,114
3,124,115
3,128,749
3,132,636
3,137,282
3,137,283
3,138,146
3,139,076
3,139,077
3,139,078
3,139,872
3,140,698
3,140,699
3,142,290
3,144,009
3,144,010
3,146,766
3,146,767
3,147,745
3,150,648
3,151,603
3,153,404
3,157,166
3,163,158
97 : 3,150,649
102 : 3,124,117
103 : 3,127,882
3,133,531
3,138,147
3,139,079
3,157,167
3,158,141
108 : 3,149,618
117 : 3,131,681
3,157,168
3,162,184
119 : Re.25,672
Re.25,701
3,116,725
3,116,726
3,116,727
3,118,435
3,120,841
3,123,060
3,125,083
3,125,084
3,126,878
3,133,532
3,135,253
3,137,284
3,137,285
3,138,148
3,139,080
3,139,873
3,140,700
3,143,103
3,144,011
3,145,697
3,146,768
3,150,650
3,151,604
3,154,060
3,156,225
3,156,226
3,157,169
3,157,170
3,157,171
3,157,172
3,157,467
3,158,142
3,159,150
3,159,151
3,160,150
3,161,186
3,161,187
120 : 3,125,085
3,140,701
3,145,698
122 : 3,139,874
3,141,449
3,148,669
3,150,651
3,150,652
127 : 3,148,670
133 : 3,145,699
134 : 3,124,116
139 : 3,116,728
3,123,061
3,129,702
3,147,746
3,152,584
3,153,405
140 : 3,119,381
3,125,086
3,126,879
3,128,750
3,128,751
3,139,875

Class 123—Con.

140 : 3,140,702
3,142,291
3,143,104
3,146,769
3,146,770
3,149,619
3,157,173
3,159,152
142.5 : 3,134,374
.5 : 3,159,153
146.5 : 3,156,228
.5 : 3,160,151
148 : 3,139,081
3,139,876
3,144,012
3,146,771
3,149,620
3,156,227
3,158,143
169 : 3,155,085
179 : 3,116,729
3,119,382
3,124,118
3,125,997
3,127,883
3,131,682
3,134,375
3,136,307
3,139,877
3,140,703
3,143,105
3,144,860
3,145,700
3,149,621
3,150,653
3,151,605
3,156,229
3,159,154
182 : 3,146,772
185 : 3,127,884
3,134,376
187.5 : 3,144,861
188 : 3,147,747
3,162,185
190 : 3,145,701
191 : 3,144,013
3,150,654
3,154,061
195 : 3,135,254
198 : 3,145,702
3,148,671
3,158,144
3,159,155

Class 124

1 : 3,117,567
3,130,717
2 : 3,141,450
7 : 3,136,308
3,142,292
9 : 3,119,383
11 : 3,119,384
3,127,885
3,142,293
12 : 3,124,119
3,137,287
3,149,622
15 : 3,142,294
16 : 3,128,752
3,145,703
3,154,062
17 : 3,138,149
19 : 3,119,385
20 : 3,154,063
21 : 3,160,152
22 : 3,126,880
23 : 3,153,406
3,156,230
24 : 3,116,730
3,120,222
3,135,255
3,141,451
3,161,189
25 : 3,125,998
26 : 3,128,753
41 : 3,158,145
43 : 3,130,718

Class 125

4 : 3,132,637
5 : 3,156,231
9 : 3,148,672
11 : 3,121,423
3,122,133
3,125,087
3,128,754
3,137,288
3,139,083
3,139,878
3,141,452
11 : 3,143,106
3,151,696
3,155,086
3,157,174
3,162,186
13 : 3,127,886
3,148,673
15 : 3,127,887
3,128,755
3,133,533
3,162,187
16 : 3,120,223
21 : 3,155,087
3,158,146
23 : 3,120,842
3,140,704
3,161,190
30 : 3,125,088
35 : 3,141,453
39 : 3,154,064
40 : 3,131,683

Class 126

2 : 3,152,585
4 : 3,139,879
6 : 3,151,607
9 : 3,146,773
3,147,748
3,149,623
3,152,586
19 : 3,118,436
3,131,684
3,132,638
3,148,674
3,151,608
3,159,156
.5 : 3,148,675
21 : 3,150,655
3,160,153
25 : 3,119,386
3,119,387
3,121,424
3,123,062
3,125,999
3,126,881
3,127,888
3,131,685
3,131,686
3,132,639
3,139,880
3,151,609
37 : 3,130,719
3,142,295
3,149,624
3,153,407
3,157,175
3,157,176
38 : 3,117,568
3,144,014
3,145,704
39 : 3,120,224
3,153,408
3,156,232
3,161,191
41 : 3,122,134
3,151,610
44 : 3,154,065
85 : 3,136,309
86 : 3,158,147
92 : 3,133,534
3,139,881
93 : 3,140,705
95 : 3,126,000
110 : 3,120,225
3,124,120
3,125,089
3,133,535
3,140,706
3,141,454
3,144,862
3,149,625
3,150,656
3,150,657
3,153,409
3,156,233
113 : 3,149,626
116 : 3,128,756
120 : 3,123,063
121 : 3,151,611
3,159,157
137 : 3,139,882
140 : 3,162,188
164 : 3,125,090
191 : 3,119,388
3,123,064
3,124,121
3,144,863
3,150,658
3,155,088
193 : 3,145,705
194 : 3,127,889
3,132,640
3,150,659
200 : 3,127,890
3,151,612
204 : 3,161,192
208 : 3,159,158
226 : 3,158,148
246 : 3,126,882
3,148,676
258 : 3,133,536
261 : 3,144,015
262 : 3,120,226
3,145,706
265 : 3,144,016
268 : 3,132,641
270 : 3,118,437
3,129,703
3,156,234
3,162,189
271 : 3,125,091
3,145,707
3,146,774
3,161,193
.1 : 3,128,757
.1 : 3,151,613
.2 : 3,132,642
.2 : 3,137,289
.2 : 3,143,107
.2 : 3,160,154
288 : 3,134,377
299 : 3,131,687
3,131,688
307 : 3,118,438
343.5 : 3,126,883
.5 : 3,140,707
.5 : 3,140,708
.5 : 3,143,108
.5 : 3,144,864
.5 : 3,150,660
.5 : 3,153,410
.5 : 3,155,089
360 : 3,124,122
3,128,758
3,138,150
362 : 3,123,065
363 : 3,151,614
3,163,159
364 : 3,151,615
366 : 3,139,084
369 : 3,141,455
377 : 3,122,135
390 : 3,145,708

Class 127

3 : 3,142,589
13 : 3,140,200
15 : 3,130,080
28 : 3,150,005
32 : 3,137,592
3,159,505
33 : 3,117,892
3,130,081
3,152,925
36 : 3,132,051
40 : 3,136,662
43 : 3,135,631
45 : 3,133,835
46 : 3,122,456
3,130,082
63 : 3,140,201
3,140,202
3,150,006
67 : 3,128,208
71 : 3,119,719
3,123,502
3,128,209
3,133,836

Class 128

1 : Re.25,508
3,124,123
3,126,884
3,137,290
3,140,709
3,158,149
3,158,150
3,160,155
2 : 3,117,569
3,118,439
3,123,066
3,133,537
3,136,310
3,139,085
3,143,109
3,147,749
3,152,587
3,155,090
3,155,091
3,158,151
3,159,159
3,163,160
.05: 3,117,570
.05: 3,118,440
.05: 3,122,136
2.05: 3,123,067
.05: 3,123,068
.05: 3,124,132
.05: 3,126,885
.05: 3,126,886
.05: 3,132,643
.05: 3,137,292
.05: 3,138,151
.05: 3,139,086
.05: 3,140,710
.05: 3,146,777
.05: 3,148,677
.05: 3,149,628
.05: 3,154,066
.05: 3,154,067
.05: 3,156,235
.05: 3,156,236
.05: 3,156,237
.05: 3,157,177
.06: 3,120,227
.06: 3,144,019
.07: 3,129,705
.08: 3,154,068
.1 : 3,128,759
.1 : 3,128,760
.1 : 3,129,704
.1 : 3,131,689
.1 : 3,132,644
.1 : 3,137,291
.1 : 3,144,017
.1 : 3,144,018
.1 : 3,147,750
.1 : 3,149,627
3 : 3,132,645
4 : 3,144,020
6 : 3,132,646
3,146,775
3,162,190
12 : 3,146,776
15 : 3,154,069
3,162,191
19 : 3,144,865
20 : 3,129,706
23 : 3,131,690
24 : 3,117,571
25 : 3,134,378
29 : 3,124,124
3,126,001
3,137,293
3,138,152
3,156,238
3,158,152
30 : 3,120,228
3,120,843
32 : 3,118,441
33 : 3,140,711
36 : 3,124,125
38 : 3,163,161
44 : 3,149,629
58 : 3,128,761
65 : 3,154,070
66 : 3,138,153
3,155,092
71 : 3,118,442
3,124,126
75 : 3,117,572
3,118,443
3,134,379
3,135,256
3,139,883
3,153,411
3,156,239
76 : 3,119,389
3,130,720
3,154,071
78 : 3,154,072
79 : 3,131,691
80 : 3,121,425
3,148,678
83 : 3,139,884
84 : 3,135,257
3,143,110
3,145,709
3,149,630
87 : 3,141,456
89 : 3,124,127
90 : 3,148,679
91 : 3,116,731
3,135,258
92 : 3,118,444
3,140,712
95 : 3,141,457
96 : 3,156,242
97 : 3,159,160
100 : 3,145,710
106 : 3,124,128
117 : 3,147,751
127 : 3,117,573
3,128,762
3,130,721
132 : 3,153,412
134 : 3,136,311
3,137,294
136 : 3,124,129
136 : 3,126,002
3,132,647
141 : 3,118,445
3,124,130
3,152,588
142 : 3,129,707
3,138,154
3,149,631
3,149,632
3,158,153
143 : 3,130,722
3,137,295
144 : 3,127,891
3,138,155
145 : 3,124,131
3,139,087
146 : Re.25,688
3,117,574
3,137,296
3,154,073
147 : 3,147,752
148 : 3,145,711
152 : 3,117,575
3,123,069
153 : 3,119,390
3,128,763
3,132,648
156 : 3,118,446
3,120,229
3,157,178
3,163,162
157 : 3,138,156
159 : 3,141,458
165 : 3,153,413
171 : 3,141,459
172 : 3,126,003
.1 : 3,122,137
173 : 3,123,070
3,129,708
3,130,723
3,131,692
3,138,157
3,140,713
3,145,712
.1 : 3,137,297
186 : 3,152,589
188 : 3,123,071
3,128,764
3,158,154
3,162,192
203 : 3,136,312
3,151,618
208 : 3,139,088
211 : 3,157,179
212 : 3,139,885
213 : 3,143,111
214 : 3,124,133
3,127,892
3,135,259
3,138,158
3,140,714
3,142,296
3,145,713
3,151,616
3,153,414
215 : 3,122,138
3,134,380
3,158,155
218 : 3,118,447
3,118,448
3,126,004
3,128,765
3,130,724
3,135,260
3,136,313
3,147,753
3,150,661
3,151,617
3,155,093
3,161,194
220 : 3,128,766
3,135,261
3,161,195
221 : 3,119,391
3,123,072
224 : 3,121,426
225 : 3,161,196
227 : 3,144,021
3,162,193
3,163,164
229 : 3,142,297
232 : 3,144,866
3,154,074
234 : 3,144,867
236 : 3,160,156
239 : 3,127,893
240 : 3,154,075
252 : 3,130,725
253 : Re.25,637
3,136,314
254 : 3,117,576
260 : 3,116,732
3,150,662
3,154,076
261 : 3,162,194
263 : 3,124,134
3,139,886
3,148,680
265 : 3,130,726
271 : 3,126,887
3,156,240
272 : 3,125,092
3,163,163
275 : 3,122,139
276 : 3,123,073
3,141,460
3,142,298
3,142,299
3,162,195
283 : 3,123,074
3,125,093
284 : 3,116,733
3,121,427
3,131,693
3,141,461
285 : 3,128,767
3,135,262
3,138,159
3,157,180
287 : 3,123,075
3,126,888
3,143,112
3,150,663
3,150,664
3,162,196
288 : 3,150,665
289 : 3,156,241
290 : 3,117,577
3,123,076
3,124,135
3,143,113
291 : 3,120,844
295 : 3,116,734
3,138,160
3,161,197
3,161,198
296 : 3,122,140
3,122,141
3,122,142
3,133,538
300 : 3,125,094
303 : 3,126,889
3,135,263
3,143,114
.1 : 3,136,315
.14: 3,117,578
.15: 3,149,633
.17: 3,163,165
.18: 3,152,590
305 : 3,128,768
310 : 3,120,845
321 : 3,140,715
325 : 3,120,230
3,126,005
3,154,077
326 : 3,130,727
3,150,666
3,155,094
327 : 3,120,846
3,156,243
328 : 3,119,392
3,137,298
334 : 3,124,136
3,155,095
335.5 : 3,123,077
.5 : 3,125,095
.5 : 3,130,728
.5 : 3,152,591
336 : 3,118,449
339 : 3,130,729
3,160,157
340 : 3,120,847
3,139,089
346 : 3,147,754
3,155,096
347 : 3,127,894
348 : 3,128,769
3,138,161
3,153,415
3,154,078
3,154,079
3,161,199
349 : 3,131,694
3,146,778
3,152,592
3,154,080
3,160,158
350 : 3,136,316
3,144,868
3,155,097
3,159,161
351 : 3,137,299
355 : 3,152,593
356 : 3,126,006
360 : 3,129,709
361 : 3,126,890
395 : 3,131,695
3,152,594
399 : 3,133,539
3,140,716
401 : 3,125,096
404 : 3,157,181
405 : 3,163,166
409 : 3,118,450
417 : 3,151,619
420 : 3,160,159
422 : 3,127,895
423 : 3,135,264
426 : 3,116,735
429 : 3,157,182
441 : 3,149,634
455 : 3,161,200
460 : 3,149,635
463 : 3,146,779
465 : 3,131,696
476 : 3,126,007
477 : 3,154,081
3,163,167
478 : 3,136,317
482 : 3,122,143
484 : 3,128,770
3,145,714
489 : 3,119,393
498 : 3,144,869
503 : 3,140,717
510 : 3,120,848
517 : 3,131,697
518 : 3,124,137
519 : 3,127,896
3,162,197
521 : 3,138,162
523 : 3,131,698
524 : 3,116,736
3,130,730
3,137,300
3,142,300
527 : 3,140,718
3,144,870
3,154,082
528 : 3,127,897
3,133,540
3,137,301
3,142,301
3,153,416
531 : 3,130,731
533 : 3,148,681
3,157,183
535 : 3,148,682
540 : 3,133,541
542 : 3,142,302
546 : 3,154,083
548 : 3,121,428
3,161,201
555 : 3,133,542
580 : 3,133,543
581 : 3,120,231
590 : 3,134,381
595 : 3,121,430
3,121,431
611 : 3,133,544
619 : 3,135,265

Class 129

1 : 3,126,891
11 : 3,116,737
12 : 3,156,244
16 : 3,119,394
.1 : 3,126,008
.1 : 3,139,090
17 : 3,149,636
19 : 3,116,738
24 : 3,132,649
3,135,266
3,139,082
3,153,417
3,162,198
28 : 3,130,732
31 : 3,126,892
41 : 3,121,432
3,150,667

Class 130

5 : 3,139,887
3,158,156
9 : 3,131,699
20 : 3,135,267
27 : 3,122,144
3,124,138
3,124,139
3,126,893
3,126,894
3,127,898
3,145,715
3,156,245
30 : Re.25,668
3,119,395
3,120,232
3,125,097
3,144,022
235 : 3,159,108

Class 131

7 : 3,136,318
9 : 3,162,199
10 : 3,116,739
3,119,396
3,120,849
3,126,009
3,133,545
3,150,668
11 : 3,118,451
15 : 3,126,010
3,128,771
3,147,755
17 : 3,118,452
3,124,140
3,125,098
3,126,011
3,126,012
3,128,772
3,136,319
3,139,888
3,162,200
20 : 3,138,163
3,138,164
21 : 3,127,899
3,130,733
3,132,650
3,146,780
29 : 3,160,160
30 : 3,116,740
3,139,091
33 : 3,155,098
36 : 3,120,850
3,142,303
59 : 3,152,595
62 : 3,128,773
66 : 3,118,453
70 : 3,124,141
3,127,900
84 : 3,125,099
87 : 3,126,013
91 : 3,128,774
94 : 3,118,454
3,119,397
3,136,320
3,137,302
3,148,683
3,156,246
96 : 3,160,161
107 : 3,118,455
133 : 3,145,716
135 : 3,124,142
140 : 3,120,233
3,121,433
3,131,700
3,136,321
3,141,462
3,144,871
3,145,717
141 : 3,132,651
145 : 3,126,014
146 : 3,128,775
149 : 3,142,304
170 : 3,158,157
173 : 3,163,168
175 : 3,121,434
3,155,099
176 : 3,117,579
184 : 3,128,776
186 : 3,147,756
3,162,201
187 : 3,116,741
3,137,303
189 : 3,144,023
191 : 3,158,158
198 : 3,143,115
3,152,596
208 : 3,117,580
3,122,145
3,125,100
3,127,901
3,144,024
3,144,025
211 : 3,128,777
235 : 3,116,742
3,129,710
3,135,268
3,137,304
236 : 3,160,162
238 : 3,143,116
244 : 3,155,100
253 : 3,124,143
258 : 3,120,234
454.5 : 3,119,408

Class 132

1 : 3,162,202
5 : 3,119,398
3,162,203
7 : 3,126,015
3,144,026
9 : 3,120,851
9 : 3,128,778
3,139,092
3,143,117
33 : 3,135,269
36 : 3,126,895
37 : 3,126,016
3,157,184
39 : 3,122,146
3,139,889
40 : 3,123,079
3,123,080
3,144,027
3,159,162
3,161,202
41 : 3,123,081
3,126,896
3,141,464
3,160,163
42 : 3,141,463
45 : 3,125,101
3,134,382
50 : 3,144,028
53 : 3,139,093
54 : 3,126,017
3,126,018
3,126,019
3,126,020
74.5 : 3,130,734
76.4 : 3,126,021
.4 : 3,131,701
79 : 3,126,022
3,134,383
3,159,163
82 : 3,132,652
84 : 3,139,094
3,141,465
3,148,684
85 : 3,130,735
3,132,653
93 : 3,141,466
3,153,418
114 : 3,147,757
116 : Re.25,585
3,137,305
120 : 3,133,546
123 : 3,148,685
145 : 3,120,852
148 : 3,145,718
149 : 3,148,686
151 : 3,140,719
3,147,758
155 : 3,142,305

Class 133

1 : 3,132,654
3,152,597
3,163,169
2 : 3,126,023
3 : 3,121,435
3,125,102
3,135,270
3,143,118
3,147,759
3,152,598
3,155,101
3,158,159
4 : 3,117,581
3,123,082
3,131,702
3,135,271
5 : 3,125,103
3,125,104
3,130,736
3,136,322
3,138,165
3,156,247
6 : 3,122,147
3,126,897
3,146,781
8 : 3,120,235
3,138,166
3,163,170

Class 134

2 : 3,121,026
3 : 3,138,485
3,140,203
3,162,547
4 : 3,150,007
5 : 3,153,602
7 : 3,130,083
3,142,590
10 : 3,121,027
17 : 3,156,584
22 : 3,119,720
3,148,088
25 : 3,117,031
3,119,721
3,140,961
28 : 3,132,052
3,135,632
3,147,148
29 : 3,126,301
3,128,210
30 : 3,120,455
34 : 3,163,559
41 : 3,123,503
43 : 3,124,144
46 : 3,137,306
56 : 3,119,399
3,122,148
3,129,711
57 : 3,118,456
3,119,400
3,119,401
3,124,145
3,124,146
3,126,024
3,129,712
3,130,737
3,134,384
3,135,272
3,144,029
3,149,637
3,154,084
58 : 3,122,149
3,122,150
3,125,105
3,130,738
3,134,385
3,141,467
3,144,030
3,148,687
59 : 3,143,119
60 : 3,123,083
3,156,248
63 : 3,121,436
68 : 3,132,655
69 : 3,159,164
72 : 3,144,872
3,155,102
73 : 3,129,713
3,143,120
74 : 3,120,853
3,162,204
76 : 3,151,620
93 : 3,144,031
3,158,160
94 : 3,117,582
3,135,273
3,136,323
96 : 3,144,032
98 : 3,132,656
99 : 3,122,151
3,126,898
3,139,095
100 : 3,120,236
3,139,096
3,139,890
102 : 3,116,743
3,120,237
3,134,386
104 : 3,144,033
3,163,171
107 : 3,117,583
3,128,779
3,154,085
112 : 3,133,547
113 : 3,125,106
3,127,902
115 : 3,152,599
120 : 3,118,457
3,134,387
121 : 3,116,744
122 : 3,146,782
123 : 3,121,437
129 : 3,136,324
133 : 3,131,703
3,153,419
135 : 3,121,438
138 : 3,126,899
3,133,548
3,139,891
142 : 3,141,468
144 : 3,118,458
145 : 3,138,167
3,139,097
3,139,098
147 : 3,135,274
148 : 3,126,900
155 : 3,118,459
158 : 3,116,745
166 : 3,134,388
3,142,306
167 : 3,139,099
3,150,669
168 : 3,117,584
3,146,783
169 : 3,139,100
176 : 3,126,025
3,144,034
3,160,164
180 : 3,162,205
182 : 3,123,084
186 : 3,139,101
188 : 3,132,657
199 : 3,135,275
201 : 3,128,780
3,129,714

Class 135

1 : 3,116,746
3,119,402
3,122,152
3,123,085
3,128,781
3,137,307
3,143,121
3,145,719
3,146,784
3,150,670
3,159,165
3 : 3,143,122
4 : 3,132,658
3,133,549
3,157,185
3,160,165
5 : 3,130,739
3,131,704
3,131,705
3,133,550
3,143,123
3,152,600
3,158,161
7.1 : 3,121,439
.1 : 3,162,206
14 : 3,148,688
16 : 3,151,621
20 : 3,129,715
3,142,307
3,145,720
3,150,671
3,156,249
3,157,186
21 : 3,120,238
25 : 3,126,901
3,146,785
26 : 3,135,276
3,160,166
46 : 3,149,638
47 : 3,158,162
49 : 3,157,187
50 : 3,133,551
3,157,188
3,157,189
52 : 3,150,672

Class 136

3 : 3,132,053
4 : 3,117,032
3,127,286
3,127,287
3,129,116
3,130,084
3,132,970
3,137,593
3,143,439
5 : 3,129,117
3,138,486
6 : 3,117,033
3,119,722
3,121,028
3,140,962
3,141,795
3,156,585
3,160,525
3,160,526
19 : 3,121,029
20 : 3,161,545
26 : Re.25,608
27 : 3,121,030
3,124,486
3,150,008
30 : 3,137,594
34 : 3,123,504
3,146,130
51 : 3,117,893
65 : 3,144,356
83 : 3,125,467
3,132,971
84 : 3,138,487
3,138,488
86 : 3,117,034
3,119,723
3,120,456
3,121,031
3,125,468
3,126,302
3,132,972
3,132,973
3,133,837
3,134,696
3,134,697
3,138,489
3,138,490
3,141,796
3,143,440
3,146,131
86 : 3,147,149
3,148,089
3,150,998
3,152,013
3,152,014
3,152,015
3,152,016
3,155,547
3,159,506
3,160,527
3,160,528
3,161,546
3,163,560
89 : Re.25,647
3,121,648
3,150,999
3,152,926
90 : 3,131,094
3,132,974
3,139,356
3,150,009
3,150,010
3,160,529
3,162,548
100 : 3,129,118
3,134,698
3,148,090
3,156,586
3,156,587
120 : 3,120,457
3,150,011
3,160,530
3,160,531
122 : 3,158,510
136 : 3,124,487
137 : 3,132,054
3,152,017
3,154,435
3,163,561
143 : 3,147,150
3,156,588
145 : 3,159,507
146 : 3,154,436
3,161,547
153 : 3,117,035
162 : 3,150,012
166 : 3,146,132
3,147,151
3,159,508
173 : 3,138,491
175 : 3,162,549
177 : 3,161,548
178 : 3,124,488
3,143,441

Class 137

1 : 3,126,902
3,128,782
3,144,035
3,148,689
3,154,086
3 : 3,135,277
3,136,325
4 : 3,123,086
3,163,172
5 : 3,162,207
8 : 3,158,163
3,161,203
12 : 3,144,036
13 : 3,125,107
3,143,124
14 : 3,134,389
15 : 3,131,706
3,135,278
3,148,690
3,154,087
3,158,164
18 : 3,139,892
3,139,893
3,155,103
31 : 3,159,166
34 : 3,139,894
36 : 3,136,326
3,152,601
38 : 3,143,125
39 : 3,132,659
41 : 3,141,469
43 : 3,123,087
50 : 3,133,552
54 : 3,139,102
3,151,622
56 : 3,122,153
3,132,660
3,147,760
3,150,673
57 : 3,154,088
59 : 3,140,720
63 : 3,137,308
3,147,761
64 : 3,145,721
68 : 3,116,747
3,118,460
3,122,154
68 : 3,125,108
3,129,716
3,134,390
3,141,470
3,158,165
71 : 3,159,167
72 : 3,139,103
73 : 3,123,088
3,140,721
78 : 3,117,586
80 : 3,122,155
81.5 : 3,144,037
.5 : 3,148,691
.5 : 3,148,692
.5 : 3,158,166
.5 : 3,159,168
.5 : 3,159,169
82 : 3,125,109
3,138,168
3,150,674
3,159,170
83 : 3,137,309
84 : 3,126,903
3,130,740
85 : 3,121,440
3,126,026
3,126,904
3,132,661
3,133,553
3,145,722
3,150,675
3,155,104
86 : 3,124,147
87 : 3,158,167
89 : 3,153,420
92 : 3,152,602
93 : 3,124,148
3,129,717
3,163,173
94 : 3,143,126
98 : 3,116,748
3,120,854
3,139,104
3,154,089
99 : 3,116,749
3,131,707
3,135,279
3,135,280
101 : 3,123,089
3,125,110
3,158,168
3,160,167
.21: 3,150,676
.27: 3,163,174
102 : 3,125,111
3,139,105
108 : 3,138,169
3,140,722
3,146,786
3,149,639
110 : 3,135,281
112 : 3,123,090
3,145,723
3,151,623
3,151,624
3,155,105
3,160,168
113 : 3,131,708
3,156,250
114 : 3,135,282
3,141,471
115 : 3,127,903
3,130,741
116.3 : 3,143,127
.5 : 3,136,327
117 : 3,128,783
3,136,328
3,152,603
3,156,251
118 : 3,134,391
3,134,392
3,135,283
3,146,787
3,148,693
119 : 3,116,750
3,119,403
3,125,112
3,130,742
3,135,284
3,144,038
3,144,873
3,154,090
121 : 3,151,625
147 : 3,121,441
150 : 3,124,149
155 : 3,121,442
3,124,150
3,124,151
3,125,113
3,130,743
3,143,128
172 : 3,128,784
183 : 3,150,677
3,162,208
190 : 3,162,209
192 : 3,154,091
197 : 3,126,905
202 : 3,131,709
3,134,393
3,149,640
3,152,604
203 : 3,148,694
204 : 3,120,239
205.5 : 3,119,404
209 : 3,154,092
210 : 3,120,240
3,143,129
212 : 3,156,252
216 : 3,147,762
3,155,106
3,158,169
.1 : 3,141,472
217 : 3,145,724
218 : 3,120,855
3,122,156
3,125,114
3,155,107
3,158,170
3,159,171
3,162,210
219 : 3,119,405
3,152,605
220 : 3,125,115
3,134,394
3,155,108
3,156,253
222 : 3,144,039
234.5 : 3,147,763
236 : 3,159,172
240 : 3,133,554
242 : 3,118,461
243.6 : 3,126,027
246.12: 3,135,285
.22: 3,123,078
247.11: 3,143,130
253 : 3,126,906
3,142,308
3,156,254
255 : 3,131,710
3,154,093
262 : 3,122,157
3,158,171
268 : 3,118,462
3,125,116
269 : 3,121,443
3,143,131
.5 : 3,124,152
270 : 3,123,091
271 : 3,122,158
286 : 3,131,711
312 : 3,124,153
315 : 3,117,587
3,127,904
3,128,785
3,130,744
3,132,662
3,134,395
3,134,396
3,135,286
3,144,040
3,148,695
3,153,421
3,154,094
3,160,169
3,161,204
3,163,175
318 : 3,131,712
3,148,696
3,162,211
322 : 3,141,473
326 : 3,149,642
327 : 3,129,718
3,148,697
329.01: 3,126,028
.01: 3,137,310
330 : 3,157,190
331 : 3,159,173
332 : 3,157,191
334 : 3,127,905
338 : 3,124,154
3,136,329
340 : 3,131,713
3,136,330
3,158,172
341 : 3,157,192
3,160,170
343 : Re.25,642
3,118,463
344 : 3,130,745
3,134,397
3,147,764
3,156,255
3,157,193
3,160,171
351 : 3,119,406
3,157,194
353 : 3,139,896
355.12: 3,144,041

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355.17: 3,145,725
.17: 3,161,205
.2 : 3,160,173
357 : 3,140,723
359 : 3,117,588
3,139,903
360 : 3,117,589
3,118,464
3,148,698
362 : 3,116,751
374 : 3,159,174
375 : 3,139,106
3,143,132
3,150,679
3,150,680
3,157,195
382 : 3,148,699
384.6 : 3,116,752
385 : 3,156,256
386 : 3,119,407
3,138,170
389 : 3,139,107
391 : 3,136,331
392 : 3,142,309
393 : 3,132,663
398 : 3,145,726
399 : 3,126,907
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406 : 3,138,171
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408 : 3,132,664
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413 : 3,120,241
3,145,727
414 : 3,135,287
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3,158,173
416 : 3,136,332
432 : 3,121,444
433 : 3,161,206
434 : 3,142,310
3,153,422
3,157,196
437 : 3,120,242
448 : 3,139,897
454.2 : 3,118,465
.2 : 3,122,159
.2 : 3,150,681
.4 : 3,143,133
.5 : 3,144,876
.5 : 3,148,700
.5 : 3,150,682
.6 : 3,139,898
.6 : 3,144,042
458 : 3,130,746
3,157,197
460 : 3,126,908
3,131,714
3,158,174
461 : 3,144,043
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467.5 : 3,128,786
469 : 3,123,092
3,141,474
3,149,643
3,154,095
471 : 3,126,909
483 : 3,144,044
484.2 : 3,122,160
486 : 3,138,172
3,143,134
487.5 : 3,116,753
.5 : 3,163,176
488 : 3,119,409
489 : Re.25,524
3,129,719
3,136,333
.5 : 3,133,555
.5 : 3,139,899
490 : 3,129,720
491 : 3,118,466
3,146,790
492.5 : 3,161,207
493 : 3,126,910
3,127,906
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3,150,683
3,151,626
3,159,175
.1 : 3,155,110
.1 : 3,159,176
.2 : 3,122,161
.2 : 3,145,730
.2 : 3,152,606
.3 : 3,134,398
.4 : 3,125,117
.5 : 3,153,423
.6 : 3,127,907
.8 : 3,138,173
494 : 3,123,093
3,125,118
3,143,135
3,151,627
3,156,257
3,159,177
495 : 3,126,911
3,137,311
498 : 3,122,162
3,138,174
500 : 3,151,628
501 : 3,127,908
3,159,178
503 : 3,131,716
504 : 3,117,590
3,120,243
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.13: 3,152,607
.15: 3,137,312
.18: 3,139,900
.18: 3,139,901
.23: 3,131,717
.36: 3,120,856
.39: 3,133,556
.41: 3,117,591
.41: 3,153,424
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512 : 3,119,410
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.1 : 3,131,718
.1 : 3,133,557
.1 : 3,134,399
.1 : 3,139,108
.3 : 3,146,791
.5 : 3,120,244
514 : 3,130,748
.3 : 3,145,732
516.11: 3,129,721
.19: 3,158,175
.23: 3,123,095
.23: 3,156,259
.25: 3,132,666
517 : 3,142,311
523 : 3,154,096
525 : 3,123,096
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.1 : 3,118,468
.3 : 3,119,411
.3 : 3,126,029
.3 : 3,152,608
527 : 3,131,719
3,153,427
.6 : 3,140,724
.8 : 3,118,469
.8 : 3,122,163
.8 : 3,143,136
.8 : 3,144,045
.8 : 3,155,112
533.19: 3,136,334
538 : 3,125,119
539 : 3,157,198
540 : 3,124,155
543.23: 3,131,720
545 : 3,159,179
550 : 3,140,725
551 : 3,144,046
552 : 3,143,137
553 : 3,135,288
556 : 3,148,701
3,154,097
.3 : 3,147,766
557 : 3,129,722
3,134,400
3,134,401
3,139,902
3,140,726
3,142,312
559 : 3,124,156
563 : 3,122,164
3,133,558
3,139,904
564.5 : 3,155,113
565 : 3,119,412
566 : 3,139,905
567 : 3,143,138
568 : 3,131,721
3,141,475
3,150,684
569 : 3,126,030
579 : 3,151,629
580 : 3,154,098
583 : 3,116,754
3,124,157
3,145,733
584 : 3,124,158
587 : 3,152,609
590 : 3,143,139
592 : 3,120,857
3,158,177
594 : 3,128,787
3,139,906
595 : 3,128,788
3,144,877
596 : 3,133,559
3,134,402
3,137,313
.12: 3,125,120
.13: 3,128,789
.13: 3,145,734
.13: 3,150,685
.14: 3,154,100
.16: 3,135,289
.16: 3,139,109
.17: 3,120,245
.2 : 3,151,630
.2 : 3,152,610
.2 : 3,153,425
.2 : 3,154,099
.2 : 3,155,114
.2 : 3,158,178
598 : 3,153,426
599 : 3,149,644
.2 : 3,132,667
.2 : 3,142,313
.2 : 3,148,702
601 : 3,116,755
3,123,097
3,123,098
604 : 3,124,159
3,142,314
3,145,735
3,154,101
605 : 3,128,790
606 : 3,140,727
607 : 3,129,723
3,163,177
608 : 3,122,165
3,135,290
3,135,291
3,139,895
3,147,767
3,148,703
3,150,686
3,154,102
609 : 3,128,791
3,135,292
610 : 3,116,756
3,124,160
612.1 : 3,148,704
614 : 3,130,749
3,163,178
.03: 3,117,592
.04: 3,139,110
.06: 3,123,099
.06: 3,159,180
.11: 3,147,768
.14: 3,126,912
.17: 3,146,792
615 : 3,126,913
621 : 3,120,858
624.11: 3,147,769
.13: 3,136,335
.13: 3,145,736
.13: 3,147,770
.14: 3,117,593
.14: 3,152,611
.15: 3,119,413
.18: 3,124,161
.18: 3,139,111
.2 : 3,143,140
.27: 3,132,668
625.11: 3,116,757
.11: 3,124,162
.11: 3,146,793
.11: 3,157,199
.12: 3,137,314
.15: 3,146,794
.16: 3,134,403
.17: 3,123,100
.17: 3,146,795
.18: 3,136,336
.18: 3,142,316
.19: 3,122,166
.19: 3,122,167
.2 : 3,143,141
.21: 3,163,179
.23: 3,128,793
.28: 3,137,315
.29: 3,139,907
.3 : 3,125,122
.3 : 3,138,175
.31: 3,127,909
.31: 3,134,404
.31: 3,135,293
.31: 3,144,878
.32: 3,134,405
.33: 3,157,200
.4 : 3,126,914
.4 : 3,150,687
.4 : 3,152,612
.4 : 3,154,103
.4 : 3,159,181
.41: 3,156,260
625.46: 3,154,104
.47: 3,126,916
.47: 3,157,201
.48: 3,122,168
.48: 3,129,724
.48: 3,132,669
.48: 3,136,337
.48: 3,139,908
.48: 3,144,047
.48: 3,152,613
.5 : 3,126,915
.5 : 3,128,792
.6 : 3,131,722
.6 : 3,142,315
.6 : 3,162,212
.61: 3,117,585
.61: 3,135,294
.62: 3,126,031
.62: 3,163,180
.63: 3,160,174
.65: 3,117,594
.65: 3,149,641
.69: 3,119,414
.69: 3,140,728
.69: 3,152,614
627 : 3,152,615
.5 : 3,116,758
.5 : 3,118,470
.5 : 3,129,725
.5 : 3,147,771
.5 : 3,158,179
628 : 3,142,317
3,143,142
629 : 3,143,143
630.14: 3,136,338
.14: 3,141,476
.19: 3,118,471
.22: 3,147,772
635 : 3,150,688
636.3 : 3,130,750
.4 : 3,155,115
637 : 3,147,773
.2 : 3,117,595
.3 : 3,131,723
.3 : 3,136,339
.4 : 3,144,048
800 : 3,156,261

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26 : 3,126,032
3,137,316
3,146,796
3,150,689
3,157,202
30 : 3,130,751
3,137,317
3,138,176
3,139,112
3,139,113
3,140,729
3,143,144
3,148,705
3,148,706
3,149,645
3,159,182
3,161,208
3,162,213
31 : 3,122,169
3,136,340
3,142,318
3,148,707
3,153,428
3,158,180
37 : 3,122,170
3,128,794
38 : 3,146,797
3,153,429
40 : 3,118,472
3,132,670
3,152,616
43 : 3,126,033
3,143,145
3,144,879
3,152,617
3,156,262
44 : 3,126,917
3,146,798
45 : 3,121,445
3,136,341
3,139,114
3,141,477
46 : 3,138,177
3,154,105
89 : 3,125,123
3,130,752
3,140,730
3,148,708
3,155,116
3,156,263
3,157,203
90 : 3,129,726
93 : 3,120,859
94 : 3,120,246
94 : 3,154,106
95 : 3,131,724
96 : 3,160,175
97 : 3,123,101
3,137,318
3,141,478
3,144,049
3,144,880
3,149,646
3,151,631
3,163,181
99 : 3,150,690
3,151,632
103 : 3,119,415
105 : 3,150,691
106 : 3,144,050
107 : 3,143,146
113 : 3,126,918
117 : 3,144,881
120 : 3,162,214
121 : 3,135,295
3,139,115
122 : 3,117,596
3,130,753
3,135,296
3,152,618
125 : 3,116,759
3,116,760
3,117,597
3,123,102
3,146,799
3,159,183
128 : 3,161,210
129 : 3,122,171
3,139,116
132 : 3,137,319
133 : 3,130,754
137 : 3,157,204
140 : 3,131,725
3,143,147
141 : 3,125,124
3,154,107
142 : 3,131,726
143 : 3,129,727
3,141,479
144 : 3,121,446
3,126,034
3,127,910
3,135,297
3,143,148
3,163,182
3,163,183
145 : 3,157,205
148 : 3,120,247
149 : 3,155,117
162 : 3,126,035
168 : 3,158,181
172 : 3,141,480
173 : 3,131,727
177 : 3,151,633

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1 : 3,156,264
7 : 3,126,919
3,157,206
3,160,176
11 : 3,123,103
3,132,671
3,156,265
12 : 3,124,163
3,124,164
3,124,165
13 : 3,128,795
18 : 3,130,755
20 : 3,139,117
24 : 3,160,177
25 : 3,130,756
26 : 3,136,342
28 : 3,150,692
29 : 3,147,774
33 : 3,137,320
42 : 3,149,647
48 : 3,143,149
54 : 3,131,728
3,133,560
3,144,882
3,147,775
55 : 3,139,909
3,144,883
3,149,648
58 : 3,152,619
68 : 3,156,266
71 : 3,125,125
84 : 3,125,126
91 : 3,155,118
3,162,215
92 : 3,151,634
3,154,108
3,154,109
97 : 3,125,127
3,155,119
3,157,207
110 : 3,122,172
110 : 3,156,267
114 : 3,147,776
115 : 3,125,128
118 : 3,126,920
122 : 3,116,761
3,127,911
3,131,729
3,159,184
123 : 3,119,416
3,144,051
124 : 3,116,762
3,122,173
3,136,343
3,137,321
125 : 3,144,884
3,163,184
126 : 3,124,166
3,140,731
3,153,430
3,159,185
127 : 3,124,167
3,137,322
3,139,118
3,157,208
3,159,186
3,160,178
3,161,209
130 : 3,145,737
141 : 3,144,885
145 : 3,124,168
3,132,672
147 : 3,119,417
151 : 3,160,179
155 : 3,126,921
159 : 3,116,763
160 : 3,125,129
161 : 3,155,120
165 : 3,126,922
3,131,730
169 : 3,145,738
171 : 3,128,796
3,148,709
188 : 3,137,323
189 : 3,125,130
191 : 3,127,912
192 : 3,122,174
3,154,110
198 : 3,147,777
224 : 3,144,052
244 : 3,120,860
245 : 3,126,923
3,140,732
257 : 3,153,431
259 : 3,139,910
263 : 3,135,298
266 : 3,128,797
270 : 3,133,561
273 : 3,125,131
281 : 3,127,913
303 : 3,127,914
3,147,778
319 : 3,117,598
329 : 3,117,599
336 : 3,135,299
3,135,300
370 : 3,139,911
3,145,739
3,158,182
374 : 3,162,216
383 : 3,150,693
384 : 3,146,800
3,152,620
385.5 : 3,139,912
389 : 3,155,121
391 : 3,139,913
402 : 3,122,175
415 : 3,148,710
420 : 3,127,915
3,154,111
3,159,187
3,163,185
425 : 3,126,924
3,139,119
3,143,150
3,146,801
3,155,122
426 : 3,155,123

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1 : 3,148,711
3 : 3,137,324
3,160,180
25 : 3,155,124
71 : 3,125,132
3,140,733
3,141,481
3,144,886
3,146,802
3,147,779
3,151,635
3,154,112
3,156,268
.5 : 3,121,447
71.5 : 3,121,448
.5 : 3,122,176
.5 : 3,130,757
.5 : 3,139,120
.5 : 3,145,740
.5 : 3,151,636
.5 : 3,151,637
.5 : 3,154,113
.5 : 3,163,186
.6 : 3,160,181
89 : 3,137,325
92.1 : 3,151,638
.2 : 3,125,133
.2 : 3,128,798
.2 : 3,159,188
.3 : 3,133,562
.3 : 3,134,406
.6 : 3,144,887
.7 : 3,122,177
93 : 3,118,473
3,122,178
3,144,053
.2 : 3,129,728
.2 : 3,144,888
.4 : 3,150,694
.4 : 3,152,621
.6 : 3,163,187
102 : 3,157,209
103 : 3,150,695
3,156,269
104 : 3,126,036
105 : 3,126,037
3,146,803
106 : 3,146,804
3,154,114
112 : 3,144,054
117 : 3,131,731
119 : 3,131,732
140 : 3,144,889
147 : 3,122,179
3,146,805
3,154,115
149 : 3,128,799
3,135,301
715 : 3,124,169

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1 : 3,120,248
3 : 3,122,180
4 : 3,122,181
8 : 3,116,764
10 : 3,161,211
12 : 3,133,563
18 : 3,124,170
3,129,729
3,134,407
3,137,326
20 : 3,160,182
24 : 3,135,302
3,139,121
3,154,116
3,158,183
26 : 3,124,171
27 : 3,162,217
45 : 3,139,914
50 : 3,155,126
51 : 3,150,696
64 : 3,123,104
66 : 3,135,303
3,140,734
68 : 3,118,474
72 : 3,162,218
73 : 3,140,735
3,144,055
78 : 3,125,134
82 : 3,138,178
3,157,210
83 : 3,152,622
88 : 3,147,780
93 : 3,149,649
94 : 3,139,915
3,151,639
104 : 3,145,741
106 : 3,156,270
110 : 3,146,806
113 : 3,142,319
130 : 3,124,172
134 : 3,116,765
135 : 3,162,219
137 : 3,128,800
144 : 3,154,117
147 : 3,123,105
150 : 3,155,125
160 : Re.25,511
161 : 3,116,766
3,121,449
172 : 3,120,249
3,137,327
3,159,189
191 : 3,145,742
192 : 3,144,056
204 : 3,123,106
209 : 3,126,925

209 : 3,134,408
3,152,623
210 : 3,156,271
217 : 3,150,697
224 : 3,118,475
230 : 3,146,807
251 : 3,124,173
275 : 3,139,122
284 : 3,124,174
286 : 3,129,730
3,133,564
3,139,123
3,155,127
3,156,272
290 : 3,125,135
291 : 3,160,183
293 : 3,133,565
3,146,808
3,148,712
302 : 3,143,151
309 : 3,142,320
314 : 3,161,212
315 : 3,137,328
317 : 3,156,273
322 : 3,126,926
331 : 3,152,624
346 : 3,148,713
347 : 3,148,714
348 : 3,116,767
349 : 3,131,733
3,151,640
350 : 3,133,566
352 : 3,123,107
354 : 3,144,057
360 : 3,143,152
361 : 3,149,650
369 : 3,125,136
3,159,190
3,163,188
381 : 3,163,189
383 : 3,136,344
388 : 3,154,118

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6 : 3,123,108
3,124,175
3,124,176
3,130,758
3,139,124
3,151,641
19 : 3,154,119
21 : 3,142,321
25 : 3,125,137
26 : 3,122,182
3,131,734
3,131,735
27 : 3,158,184
32 : 3,119,418
3,124,177
3,129,731
3,134,409
3,144,890
3,154,120
3,157,211
33 : 3,123,109
3,149,651
36 : 3,124,178
38 : 3,125,138
40 : 3,125,139
44 : 3,135,304
46 : Re.25,686
47 : 3,122,183
3,128,801
3,151,642
51 : 3,128,802
55 : 3,135,305
68 : 3,131,736
3,146,809
3,146,810
3,155,128
3,161,213
70 : 3,117,600
72 : 3,152,625
76 : 3,129,732
85 : 3,163,190
115 : 3,128,803
117 : 3,129,733
3,138,179
133 : 3,129,734
3,129,735
3,144,058
135 : 3,123,110
3,124,179
3,144,059
3,144,891
3,155,129
141 : 3,128,804
157 : 3,119,419
3,123,111
3,139,125
3,148,715
160 : 3,116,768
3,119,420
168 : 3,124,181
169 : 3,116,769
3,124,180
3,138,180
174 : 3,125,140
3,162,220

Class 144

1 : 3,128,805
2 : 3,120,861
3,123,112
3,125,141
3,129,736
3,158,185
3 : 3,140,736
3,147,781
3,153,432
27 : 3,158,186
30 : 3,118,476
32 : 3,146,811
3,157,212
34 : 3,119,421
3,122,184
3,126,927
35 : 3,130,759
39 : 3,141,482
46 : 3,163,191
93 : 3,134,410
110 : 3,161,214
124 : 3,147,782
127 : 3,133,567
134 : 3,134,411
3,162,221
144 : 3,146,812
.5 : 3,130,760
172 : 3,162,222
208 : 3,119,422
3,123,113
3,125,142
3,128,806
3,136,345
3,137,329
3,152,626
3,154,121
209 : 3,132,673
230 : 3,134,412
238 : 3,159,191
242 : 3,138,181
3,144,060
3,159,192
256 : 3,130,761
281 : 3,120,862
3,131,737
288 : 3,127,916
3,128,807
3,138,182
309 : 3,128,808
312 : 3,156,274
318 : 3,144,892
326 : 3,153,433
3,155,130
327 : 3,132,674

Class 145

1 : 3,126,928
4 : 3,126,929
11 : 3,120,250
29 : 3,129,737
3,130,762
3,148,716
30 : 3,125,143
34 : 3,149,652
50 : 3,119,423
3,120,251
3,133,568
3,135,306
3,150,698
3,150,699
53 : 3,153,434
64 : 3,119,424
74 : 3,136,346
117 : 3,136,347
120 : 3,130,763
3,138,183
3,146,813
121 : 3,124,182

Class 146

2 : 3,116,770
3,133,569
3,137,330
3,142,322
3,145,743
3,147,783
3,152,627
3 : 3,117,601
3,122,185
3,123,114
3,129,738
3,139,126
3,145,744
3 : 3,148,717
3,150,700
3,151,643
3,154,122
3,159,193
5 : 3,163,192
6 : 3,136,348
3,151,644
11 : 3,123,115
13 : 3,137,331
3,148,718
15 : 3,127,917
16 : 3,159,194
27 : 3,139,916
3,159,195
3,162,223
28 : 3,119,425
3,119,426
3,122,186
3,128,809
3,132,675
3,132,676
3,138,184
3,141,483
3,156,275
3,162,224
32 : 3,131,738
40 : 3,128,810
43 : 3,156,276
49 : 3,134,413
50 : 3,134,414
3,158,187
51 : 3,148,719
52 : 3,134,415
3,155,131
3,156,277
3,162,225
55 : 3,122,187
56 : 3,141,484
67 : 3,119,427
3,156,278
68 : 3,116,771
3,139,917
3,154,123
70.1 : 3,129,739
71 : 3,151,645
72 : 3,119,428
3,144,061
73 : 3,124,183
76 : 3,122,188
78 : 3,133,570
3,136,349
3,139,127
3,139,128
3,150,701
81 : 3,144,062
3,154,124
3,157,213
83 : 3,122,189
3,126,930
88 : 3,132,677
3,145,745
94 : 3,140,737
3,161,215
95 : 3,131,739
3,133,571
3,144,893
3,162,226
98 : 3,148,720
102 : 3,124,184
3,124,185
3,133,572
3,146,814
3,159,196
107 : 3,126,931
3,138,185
117 : 3,137,332
3,141,485
3,144,063
119 : 3,117,602
120 : 3,135,307
121 : 3,139,918
123 : 3,153,435
3,160,184
150 : 3,130,764
3,132,678
163 : 3,124,186
3,133,573
167 : 3,138,186
3,153,436
174 : 3,145,746
177 : 3,121,450
3,137,333
182 : 3,117,603
3,125,144
3,132,679
186 : 3,132,680
192 : 3,123,116
3,137,334
3,147,784
3,147,785
3,149,653
203 : 3,160,185
215 : 3,146,815
216 : 3,144,064
221.7 : 3,126,932
.8 : 3,132,681
233 : 3,118,477
236 : 3,117,604
3,155,132
238 : 3,117,605
3,151,646
3,151,647
3,151,648
241 : 3,116,772
3,133,574
3,139,129
3,139,130
3,142,323
280 : 3,139,919
302 : 3,131,740

Class 147

3 : 3,157,214

Class 148

1 : 3,137,595
.5 : 3,122,460
.5 : 3,129,119
.5 : 3,134,699
.5 : 3,147,152
.5 : 3,148,091
.5 : 3,150,013
.5 : 3,154,437
.5 : 3,154,439
.5 : 3,158,511
.5 : 3,158,512
.6 : 3,124,489
.6 : 3,134,700
.6 : 3,144,357
.6 : 3,144,358
.6 : 3,157,537
2 : 3,150,014
3 : 3,133,843
3,142,591
3,156,589
4 : 3,117,036
3,139,357
6.1 : 3,147,153
.11: 3,144,359
.14: 3,118,792
.14: 3,120,458
.14: 3,132,975
.14: 3,142,592
.14: 3,150,016
.14: 3,152,927
.14: 3,162,550
.15: 3,118,793
.15: 3,129,121
.15: 3,129,122
.15: 3,129,123
.15: 3,133,838
.15: 3,136,663
.15: 3,138,492
.15: 3,141,797
.15: 3,144,360
.15: 3,146,133
.15: 3,151,000
.15: 3,152,018
.15: 3,154,438
.15: 3,161,549
.16: 3,127,288
.16: 3,132,055
.16: 3,144,361
.16: 3,159,509
.16: 3,160,532
.2 : 3,123,505
.2 : 3,130,085
.2 : 3,140,204
.2 : 3,150,015
.21: 3,121,032
.21: 3,122,457
.21: 3,130,086
.24: 3,121,033
.24: 3,130,087
.27: 3,141,798
.3 : 3,147,154
.35: 3,129,124
9 : 3,119,724
3,142,593
11.5 : 3,117,894
.5 : 3,119,725
.5 : 3,121,034
.5 : 3,122,458
.5 : 3,134,701
.5 : 3,138,493
.5 : 3,141,799
.5 : 3,147,155
.5 : 3,152,931
12 : 3,125,469
3,128,211
3,130,088
3,139,358
.1 : 3,122,459
.1 : 3,139,359
.3 : 3,117,037
12.3 : 3,141,800
.4 : 3,117,895
.7 : 3,133,839
.7 : 3,156,590
13 : 3,130,089
3,158,513
.1 : 3,155,548
14 : 3,151,001
15.5 : 3,117,038
.5 : 3,141,801
16 : 3,127,289
3,149,006
3,154,440
.5 : 3,151,002
.5 : 3,158,514
.6 : 3,140,205
20 : 3,158,515
.3 : 3,146,134
23 : 3,127,290
3,139,360
24 : 3,117,039
3,125,470
3,149,007
3,162,551
26 : 3,152,019
29 : 3,159,510
31 : 3,123,506
.5 : 3,125,471
.5 : 3,132,056
.55: 3,124,490
.55: 3,130,090
32 : 3,131,095
3,162,552
.5 : 3,147,156
.5 : 3,151,003
33 : 3,121,035
3,131,096
3,132,057
.1 : 3,118,794
.1 : 3,145,123
.3 : 3,146,135
.3 : 3,151,004
.4 : 3,117,040
.4 : 3,142,594
.4 : 3,163,562
.5 : 3,140,963
.5 : 3,152,928
34 : 3,136,664
3,163,563
36 : 3,126,303
3,136,665
3,144,362
3,152,020
38 : 3,129,120
39 : 3,117,041
3,155,549
103 : 3,118,795
3,138,494
3,148,092
108 : 3,117,896
3,125,472
3,158,516
111 : 3,125,473
3,130,091
3,130,092
3,130,093
3,130,094
3,136,666
3,144,363
3,147,157
3,147,158
3,151,005
3,152,021
3,152,929
3,159,511
3,163,564
112 : 3,157,538
3,162,553
113 : 3,130,095
3,144,364
3,152,930
3,162,554
120 : 3,124,491
125 : 3,131,097
3,149,008
127 : 3,157,539
130 : 3,124,492
131 : 3,148,093
3,157,540
134 : 3,155,350
136 : 3,152,934
142 : 3,117,897
143 : 3,140,964
3,154,441
3,163,565
144 : 3,154,442
3,154,443
145 : 3,144,365
3,162,555
150 : 3,163,566
152 : 3,117,042
3,13 ,596
154 : 3,160,533
159 : 3,135,633
160 : 3,143,442
162 : 3,145,124
3,146,136
171 : 3,141,802
3,142,595
172 : 3,150,017
174 : 3,129,125
3,147,159
3,151,006
3,157,541
3,162,556
175 : 3,131,098
3,139,361
3,140,965
3,140,966
3,142,596
3,145,125
3,146,137
3,148,094
3,152,022
3,152,932
3,152,933
3,156,591
177 : 3,137,597
3,151,007
3,152,023
3,152,024
3,154,444
3,160,534
178 : 3,124,493
3,143,443
179 : Re.25,633
3,144,366
3,151,008
3,152,025
3,154,445
183 : 3,156,592
185 : 3,152,026
186 : 3,140,206
187 : 3,138,495
3,139,362
3,145,126
3,146,138
3,156,593
188 : 3,143,444
189 : 3,131,099
3,133,840
3,154,446
191 : 3,155,551
3,162,557

Class 149

1 : 3,143,445
3,146,139
2 : 3,143,446
3,162,558
3,163,567
4 : 3,118,796
5 : 3,120,459
3,133,841
3,147,160
6 : 3,151,009
7 : 3,160,535
8 : 3,144,367
3,148,095
3,160,536
10 : 3,117,043
3,118,797
11 : 3,138,496
18 : 3,132,978
19 : 3,117,044
3,117,898
3,123,507
3,124,494
3,126,304
3,128,212
3,130,096
3,131,100
3,131,101
3,132,058
3,132,059
3,132,976
3,133,842
3,135,634
3,136,667
3,136,668
3,137,599
3,138,497
3,140,207
3,141,803
3,147,161
3,147,162
3,148,096
3,149,009
3,150,018
3,151,010
3,152,935
3,152,936
3,153,603
3,153,604
3,154,447
3,154,448
3,154,449
19 : 3,155,552
3,156,594
3,161,550
3,162,559
21 : Re.25,695
3,155,553
22 : 3,122,461
3,130,097
3,135,635
3,150,019
3,152,937
3,153,605
3,159,512
23 : 3,135,636
29 : 3,129,126
30 : 3,118,798
3,129,127
35 : 3,122,462
36 : 3,132,060
3,132,977
3,138,498
3,149,010
37 : 3,118,799
3,150,020
3,160,537
38 : 3,138,499
39 : 3,147,163
41 : 3,121,036
3,132,061
3,140,208
3,153,606
43 : 3,124,495
3,160,538
46 : 3,129,128
3,135,637
3,137,598
3,155,555
3,161,551
47 : 3,133,844
74 : 3,136,669
3,138,500
75 : 3,140,209
3,149,011
77 : 3,126,305
3,155,554
78 : 3,131,102
83 : 3,148,097
3,152,027
84 : 3,121,231
87 : 3,156,595
88 : 3,140,210
92 : 3,138,501
98 : 3,149,012
101 : 3,140,211
106 : 3,140,212
107 : 3,146,140
109 : 3,133,845
3,138,502

Class 150

.5 : 3,121,451
.5 : 3,128,811
.5 : 3,129,740
.5 : 3,139,131
.5 : 3,155,133
.5 : 3,156,279
1 : 3,116,773
3,117,606
3,123,117
3,131,741
3,133,575
3,145,747
3,151,649
3,151,650
.5 : 3,128,812
.5 : 3,139,132
.5 : 3,147,786
.6 : 3,120,252
.7 : 3,142,324
7 : 3,155,134
10 : 3,163,193
11 : 3,143,153
28 : 3,121,452
3,125,145
3,161,216
29 : 3,145,748
3,147,787
33 : 3,133,576
34 : 3,117,607
3,123,118
3,141,486
35 : 3,117,608
3,120,253
3,137,335
3,144,065
3,147,788
3,147,789
3,151,651
3,162,227
37 : 3,118,478
3,160,186
38 : 3,124,187
39 : 3,146,816

Class 150—Con.

40 : 3,119,429
3,122,190
3,127,918
47 : 3,129,741
3,144,894
48 : 3,126,933
3,158,188
52 : 3,116,774
3,117,609
3,133,577
3,134,416
3,139,133
3,143,154
3,145,749
3,154,125
3,156,280
3,163,194

Class 151

5 : 3,129,742
7 : 3,119,430
3,131,742
3,144,066
3,150,702
3,150,703
3,163,195
11 : 3,123,119
13 : 3,141,487
14 : 3,145,750
19 : 3,151,652
3,151,653
3,157,215
3,160,187
21 : 3,141,488
3,142,325
3,144,895
3,145,751
3,145,752
22 : 3,118,479
3,133,578
3,146,817
23 : 3,149,654
25 : 3,116,775
3,139,134
34 : 3,126,934
35 : 3,149,655
36 : 3,156,281
37 : 3,120,254
3,135,308
3,163,196
41.7 : 3,121,453
.7 : 3,123,120
.7 : 3,140,738
.71: 3,117,610
.72: 3,128,813
.72: 3,162,228
.73: 3,117,611
.73: 3,124,189
.73: 3,125,146
.73: 3,127,919
.73: 3,130,765
.73: 3,133,579
.73: 3,133,580
.73: 3,137,336
.73: 3,152,628
.73: 3,160,188
.73: 3,160,189
.73: 3,163,197
.74: 3,131,743
.75: 3,116,776
.75: 3,118,480
.75: 3,126,038
.75: 3,126,039
.75: 3,135,309
.75: 3,136,350
.75: 3,138,187
.75: 3,141,489
.75: 3,145,753
.75: 3,156,282
.75: 3,163,198
69 : 3,124,190
3,126,935
3,138,188

Class 152

9 : 3,154,126
22 : 3,124,188
41 : 3,128,814
3,130,766
102 : 3,154,127
158 : 3,141,490
3,142,326
175 : 3,134,417
176 : 3,149,656
3,157,216
184 : 3,126,040
208 : 3,120,255
3,147,790
209 : 3,160,190
3,162,229
210 : 3,120,863
3,124,191
3,125,147
214 : 3,123,121
216 : 3,117,612
3,130,767
3,132,682
3,133,581
3,138,189
218 : 3,120,256
3,130,768
221 : 3,125,148
222 : 3,118,481
225 : 3,122,191
3,122,192
3,151,654
228 : 3,116,777
3,117,613
3,144,067
230 : 3,157,217
233 : 3,121,454
3,133,582
3,151,655
236 : 3,149,657
3,161,217
237 : 3,161,218
242 : 3,138,190
245 : 3,144,068
315 : 3,126,041
323 : 3,141,491
324 : 3,163,199
325 : 3,127,920
330 : 3,116,778
3,123,122
3,143,155
3,149,658
3,157,218
339 : 3,161,219
341 : 3,126,936
3,129,743
3,160,191
342 : 3,145,754
353 : 3,128,815
3,155,135
354 : 3,118,482
3,133,583
3,139,135
355 : 3,160,192
356 : 3,130,769
3,161,220
359 : 3,133,584
3,160,193
361 : 3,118,483
3,126,042
3,131,744
362 : 3,142,327
363 : 3,117,614
367 : 3,133,585
3,133,586
3,133,587
3,160,194
370 : 3,143,156
3,162,230
397 : 3,123,123
400 : 3,150,704
401 : 3,145,755
410 : 3,118,484
3,118,485
411 : 3,143,157
426 : 3,150,705
427 : 3,121,455
3,134,418
3,134,419
3,157,219
429 : 3,134,420
3,142,328
430 : 3,154,128

Class 153

1 : 3,118,486
3,126,043
3,126,044
3,135,310
3,155,136
3,155,137
3,155,138
3,156,284
3,158,189
3,159,197
3,163,200
2 : 3,125,149
3,128,816
3,128,817
3,128,818
3,128,819
3,128,820
3,129,744
3,131,745
3,134,421
3,135,311
3,136,351
3,137,337
3,138,191
2 : 3,139,920
3,140,739
3,141,492
3,144,069
3,150,706
3,156,283
3,156,285
3,157,220
3,162,231
7 : 3,150,707
10 : 3,126,937
3,139,921
3,161,221
11 : 3,119,431
12 : 3,130,770
3,142,329
13 : 3,161,222
15 : 3,120,257
3,135,312
16 : 3,123,124
3,147,791
3,154,129
3,161,223
18 : 3,138,192
19 : 3,122,193
3,125,150
3,155,139
20 : 3,145,756
3,151,656
21 : 3,116,779
3,119,432
3,126,045
3,131,746
3,135,313
3,151,657
3,154,130
3,159,198
3,162,232
25 : 3,118,487
3,134,422
28 : 3,153,437
32 : 3,122,194
3,126,046
3,131,747
3,131,748
3,141,493
3,143,158
3,144,896
3,149,659
3,149,660
3,156,286
34 : 3,144,070
35 : 3,119,433
3,119,434
3,125,151
38 : 3,124,192
39 : 3,129,745
40 : 3,118,488
3,141,494
3,141,495
3,145,757
3,146,818
3,148,721
3,156,287
46 : 3,147,792
48 : 3,116,780
3,117,615
3,126,938
3,127,921
50 : 3,146,819
54 : 3,116,781
3,144,071
3,145,758
3,146,820
3,147,793
3,159,199
64 : 3,127,922
3,145,759
3,145,760
3,160,195
.5 : 3,152,629
65 : 3,120,258
3,161,224
67 : 3,139,136
3,144,072
3,148,722
71 : 3,128,821
73 : 3,130,771
3,141,496
76 : 3,117,616
3,123,125
79 : 3,120,259
3,127,923
3,152,630
80.5 : 3,119,435
81 : 3,117,617
86 : 3,152,631
3,161,225
3,163,201
107 : 3,156,288

Class 154

45.9 : 3,127,304

Class 156

3 : 3,131,103
3,138,503
3,139,363
3,152,938
3,152,939
4 : 3,122,463
6 : 3,148,098
8 : 3,137,600
11 : 3,135,638
13 : 3,136,670
3,148,099
14 : 3,121,037
3,136,671
3,136,672
3,144,368
3,148,100
3,161,552
15 : 3,130,098
17 : 3,117,899
3,122,464
3,128,213
3,143,447
3,143,448
3,150,021
3,154,450
3,156,596
3,158,517
3,160,539
3,163,568
18 : 3,125,474
3,134,702
3,138,504
19 : 3,119,726
20 : 3,125,475
21 : 3,155,556
24 : 3,125,476
48 : 3,121,038
3,152,028
49 : 3,127,291
3,133,846
3,159,513
51 : 3,144,369
53 : 3,117,900
55 : 3,128,214
57 : 3,130,099
62.2 : 3,137,601
.2 : 3,147,164
.2 : 3,147,165
64 : 3,127,292
66 : 3,160,540
67 : 3,160,541
69 : 3,128,215
3,133,847
3,160,542
71 : 3,121,649
72 : 3,127,293
3,155,557
3,158,518
73 : 3,131,104
3,145,127
3,146,141
3,150,022
3,150,023
78 : 3,123,508
79 : 3,118,800
3,159,514
82 : 3,131,105
88 : 3,118,801
89 : 3,132,979
3,137,602
3,144,370
91 : 3,140,967
3,146,142
3,152,029
93 : 3,122,465
94 : 3,138,505
3,155,558
95 : 3,124,496
96 : 3,136,673
98 : 3,135,639
108 : 3,156,597
3,163,569
3,163,570
123 : 3,142,597
126 : 3,143,449
3,143,450
131 : 3,127,294
133 : 3,157,542
137 : 3,154,451
143 : 3,157,543
147 : 3,135,640
148 : 3,157,544
154 : 3,125,477
155 : 3,132,980
156 : 3,138,506
3,161,553
157 : 3,117,901
3,130,100
3,134,703
3,137,603
3,152,940
158 : 3,117,903
160 : 3,139,364
161 : 3,129,129
3,148,102
3,156,598
162 : 3,142,598
163 : 3,130,101
3,132,981
167 : 3,134,704
3,148,101
172 : 3,127,295
178 : 3,154,452
179 : 3,139,365
180 : 3,151,011
3,158,519
184 : 3,125,478
3,128,216
3,144,371
3,151,012
3,157,545
187 : 3,120,460
3,126,306
190 : 3,159,515
191 : 3,123,509
192 : 3,140,968
194 : 3,138,507
3,143,451
195 : 3,155,559
196 : 3,156,599
197 : 3,134,705
3,136,674
3,137,604
202 : 3,140,213
203 : 3,136,675
3,153,607
204 : 3,123,510
210 : 3,142,599
211 : 3,132,982
212 : 3,146,143
3,154,453
213 : 3,142,600
215 : 3,124,497
3,138,508
217 : 3,117,902
220 : 3,134,980
222 : 3,155,560
3,163,571
224 : 3,148,103
228 : 3,130,102
229 : 3,150,024
230 : 3,131,106
231 : 3,157,546
234 : 3,146,144
3,157,547
240 : 3,121,650
3,137,605
242 : 3,161,554
243 : 3,159,516
244 : 3,136,676
245 : 3,161,555
250 : 3,159,517
251 : 3,144,372
252 : 3,157,548
253 : 3,157,549
256 : 3,135,641
257 : 3,141,804
264 : 3,147,166
3,147,167
267 : 3,143,453
268 : 3,140,969
3,159,518
270 : 3,159,519
272 : 3,123,511
3,146,145
3,146,146
3,159,520
273 : 3,126,307
3,137,606
3,142,601
278 : 3,117,045
3,152,030
3,155,561
3,161,556
281 : 3,137,607
282 : 3,133,848
287 : 3,132,062
290 : 3,147,168
300 : 3,125,479
304 : 3,117,046
3,136,677
306 : 3,160,543
307 : 3,158,520
308 : 3,132,983
309 : 3,140,215
3,149,013
310 : 3,125,480
3,158,521
320 : 3,157,550
332 : 3,127,296
3,154,454
334 : 3,132,984
336 : 3,138,509
342 : 3,132,985
345 : 3,145,128
3,147,169
345 : 3,163,572
351 : 3,152,941
353 : 3,141,805
3,146,147
354 : 3,140,214
355 : 3,128,217
357 : 3,134,706
358 : 3,118,802
359 : 3,142,602
361 : 3,144,373
3,162,560
367 : 3,129,130
376 : 3,150,025
380 : 3,126,308
3,147,170
3,162,561
381 : 3,121,039
382 : 3,146,148
384 : 3,124,498
385 : 3,146,149
387 : 3,160,544
391 : 3,130,103
393 : 3,156,600
394 : 3,127,297
398 : 3,121,651
400 : 3,121,652
401 : 3,152,031
403 : 3,121,653
405 : 3,142,603
3,151,013
406 : 3,162,562
408 : 3,125,481
410 : 3,117,047
411 : 3,162,563
414 : 3,125,482
415 : 3,156,601
416 : 3,134,079
3,138,510
3,144,374
3,160,546
417 : 3,140,216
421 : 3,152,942
423 : 3,124,499
3,133,849
3,147,171
425 : 3,130,104
3,141,806
427 : 3,132,986
431 : 3,138,511
432 : 3,125,483
433 : 3,160,547
435 : 3,142,604
3,157,554
436 : 3,157,552
438 : 3,118,803
441 : 3,123,512
3,127,298
3,150,026
443 : 3,117,048
3,139,366
3,154,455
444 : 3,146,150
3,159,522
446 : 3,131,107
447 : 3,140,970
461 : 3,131,108
3,138,512
3,139,367
462 : 3,161,557
467 : 3,138,513
471 : 3,157,551
475 : 3,117,904
3,139,368
3,147,172
483 : 3,152,943
493 : 3,134,707
3,142,605
496 : 3,149,014
498 : 3,140,971
3,152,944
3,162,564
499 : 3,143,454
3,159,521
502 : 3,121,654
3,136,678
3,149,015
503 : 3,117,049
3,117,050
3,121,655
3,142,606
504 : 3,155,562
505 : 3,136,679
3,155,563
506 : 3,117,051
3,142,607
3,162,565
510 : 3,146,151
513 : 3,132,063
515 : 3,122,466
3,130,105
3,142,608
3,153,608
515 : 3,157,553
519 : 3,146,152
3,158,522
521 : 3,145,129
522 : 3,123,513
3,128,218
3,143,452
3,152,945
3,158,523
523 : 3,150,027
3,156,602
526 : 3,131,109
531 : 3,124,500
552 : 3,118,804
3,130,106
554 : 3,120,461
3,152,032
558 : 3,133,850
559 : 3,130,107
563 : 3,139,369
566 : 3,126,309
3,140,972
572 : 3,157,555
575 : 3,148,104
3,155,564
577 : 3,140,217
3,156,603
579 : 3,119,727
3,127,299
583 : 3,119,728
3,122,467
3,140,218
3,157,556
584 : 3,128,219

Class 157

1.1 : 3,139,137
.17: 3,123,126
.17: 3,130,772
.17: 3,142,330
.17: 3,158,190
.17: 3,160,196
.2 : 3,149,661
.2 : 3,156,289
.22: 3,125,152
13 : 3,117,618
3,136,352
3,152,632
3,162,233

Class 158

1 : 3,146,821
3,152,633
3,159,200
.5 : 3,126,939
.5 : 3,130,773
.5 : 3,143,159
.5 : 3,154,131
4 : 3,119,436
3,120,864
3,131,749
3,138,193
3,143,160
7 : 3,118,489
3,122,195
3,123,127
3,144,073
.5 : 3,163,202
11 : 3,135,314
3,139,138
3,153,438
3,163,203
13.6 : 3,147,794
26 : 3,158,191
27.4 : 3,129,746
.4 : 3,148,723
.4 : 3,155,140
.4 : 3,161,226
28 : 3,118,490
3,122,196
3,124,193
3,126,940
3,132,683
3,136,353
3,143,161
3,143,162
3,144,897
3,146,822
3,147,795
3,149,662
3,150,708
3,150,709
3,155,141
3,158,192
3,159,201
3,162,234
33 : 3,125,153
36 : 3,139,922
3,140,740
.3 : 3,118,491
.3 : 3,118,492
.3 : 3,119,437

36.3 : 3,126,942
.3 : 3,128,822
.3 : 3,143,163
.3 : 3,156,290
.3 : 3,158,193
.3 : 3,162,235
.4 : 3,121,456
.4 : 3,123,128
.4 : 3,131,750
.4 : 3,131,751
.4 : 3,132,684
.4 : 3,144,074
.4 : 3,151,658
.4 : 3,156,291
.4 : 3,157,221
42.1 : 3,145,761
.4 : 3,124,194
46.5 : 3,129,747
.5 : 3,132,685
53 : 3,153,439
71 : 3,152,634
76 : 3,129,748
3,137,338
3,144,075
77 : 3,127,924
86 : 3,130,774
88 : 3,119,438
91 : 3,134,423
3,147,796
99 : 3,119,439
3,120,260
3,133,588
3,134,424
3,134,425
3,135,315
3,136,354
3,142,331
3,155,142
3,161,227
3,162,236
3,162,237
3,162,238
104 : 3,121,457
3,126,047
3,154,133
109 : 3,118,493
3,126,941
3,152,635
3,154,134
112 : 3,162,239
113 : 3,120,261
3,144,076
3,155,143
114 : 3,129,749
3,156,292
115 : 3,117,619
3,143,164
3,150,710
3,154,132
3,159,202
116 : 3,122,197
3,131,752
3,150,711
3,151,659
117.5 : 3,119,440
.5 : 3,161,228
119 : 3,140,741
122 : 3,154,135
3,160,197
123 : 3,136,355
3,145,762
3,145,763
3,146,823
3,151,660
3,155,144
3,158,194
3,159,203
124 : 3,137,339
3,151,661
125 : 3,142,332
3,144,898
3,145,764
3,153,440
3,155,145
130 : 3,118,494
131 : 3,150,712
3,157,222
135 : 3,138,194

Class 159

1 : 3,152,946
2 : 3,161,558
4 : 3,129,131
6 : 3,130,108
3,137,608
12 : 3,147,173
13 : 3,120,462
3,132,064
3,155,565
17 : 3,141,807
20 : 3,154,456
28 : 3,150,028
31 : 3,132,987
32 : 3,127,300
3,139,370
47 : 3,118,805
3,131,110
3,147,174
49 : 3,129,132
3,145,130
3,152,947

Class 160

11 : 3,149,663
19 : 3,120,865
3,124,195
3,145,765
23 : 3,146,824
24 : 3,140,742
3,144,899
26 : 3,158,195
3,163,204
27 : 3,155,146
32 : 3,151,662
34 : 3,128,823
39 : 3,138,195
40 : 3,126,048
3,126,049
3,126,050
3,126,051
3,148,724
3,156,293
3,161,229
41 : 3,123,129
58 : 3,121,458
72 : 3,151,664
81 : 3,134,426
84 : 3,126,943
3,133,589
3,151,663
87 : 3,136,356
89 : 3,139,923
90 : 3,126,052
3,126,944
107 : 3,161,230
113 : 3,149,664
3,160,198
130 : 3,160,199
132 : 3,161,231
135 : 3,145,766
161 : 3,148,725
168 : 3,123,130
3,129,750
3,134,427
3,157,223
3,159,204
170 : 3,141,497
172 : 3,130,775
3,134,428
173 : 3,156,294
3,158,196
175 : 3,156,295
176 : 3,122,198
178 : 3,125,154
3,130,776
3,130,777
3,136,357
183 : 3,131,753
3,131,754
188 : 3,154,136
189 : 3,155,147
3,157,224
3,160,200
191 : 3,138,196
3,146,825
193 : 3,127,925
206 : 3,138,474
3,144,077
3,151,665
3,160,201
209 : 3,159,205
212 : 3,119,441
216 : 3,163,205
229 : 3,116,782
230 : 3,125,155
231 : 3,145,767
232 : 3,123,131
236 : 3,163,206
272 : 3,142,333
327 : 3,142,334
3,149,665
330 : RE.25,613
3,159,206
331 : 3,136,358
344 : 3,155,148
3,160,202
345 : 3,119,442
3,119,443
3,129,751
3,157,225
346 : 3,151,666
3,155,149
348 : 3,116,783
3,119,444
3,132,686
3,132,687
348 : 3,155,150
3,159,207
349 : 3,116,784
354 : 3,146,826
3,146,827
363 : 3,129,752
369 : 3,131,755
371 : 3,127,926
382 : 3,125,156
383 : 3,138,197
390 : 3,148,726
394 : 3,143,165

Class 161

1 : 3,149,016
2 : 3,137,609
4 : 3,152,948
6 : 3,125,484
3,127,301
7 : 3,124,501
8 : RE.25,525
3,131,111
14 : 3,134,708
16 : 3,123,514
3,127,302
3,132,988
19 : 3,157,557
22 : 3,133,851
3,147,175
3,154,457
3,157,558
24 : 3,126,310
3,131,112
3,140,219
3,144,375
3,159,523
3,163,573
3,163,574
25 : 3,130,109
27 : 3,158,524
30 : 3,137,610
3,146,153
3,161,559
31 : 3,141,808
34 : 3,157,559
36 : 3,128,220
3,135,642
3,145,131
3,149,017
3,154,458
37 : 3,139,371
3,146,154
39 : 3,127,303
3,142,609
3,147,176
42 : 3,130,110
43 : 3,149,018
3,162,566
46 : 3,126,311
47 : 3,133,852
48 : 3,130,111
50 : 3,152,033
54 : 3,142,610
55 : 3,150,029
56 : 3,143,455
58 : 3,159,524
59 : 3,148,105
64 : 3,117,905
3,127,305
66 : 3,142,611
68 : 3,150,030
72 : 3,158,525
73 : 3,141,809
79 : 3,135,643
82 : 3,149,019
89 : 3,119,729
3,127,306
3,130,112
90 : 3,145,132
91 : 3,141,810
3,154,459
92 : 3,140,973
3,152,949
93 : 3,117,052
3,141,811
3,154,460
95 : 3,155,566
3,158,526
97 : 3,130,113
101 : 3,135,644
3,143,456
104 : 3,140,220
106 : 3,157,560
109 : 3,137,611
113 : 3,152,034
3,156,604
3,158,527
116 : 3,154,461
119 : 3,133,853
122 : 3,150,031
128 : 3,159,525
129 : 3,138,514
130 : 3,130,412
139 : 3,146,155
140 : 3,158,528
143 : 3,118,806
144 : 3,126,312
146 : 3,117,053
3,138,515
3,152,035
151 : 3,131,113
3,160,548
153 : 3,120,463
154 : 3,154,462
156 : 3,144,376
158 : 3,121,656
3,151,015
159 : 3,121,657
160 : 3,117,054
161 : 3,143,457
3,147,177
3,149,020
3,150,032
3,158,529
3,160,549
162 : 3,123,515
3,134,709
3,137,612
164 : 3,139,372
3,157,561
165 : 3,132,065
3,135,645
168 : RE.25,564
3,145,133
169 : 3,125,485
3,154,463
3,156,605
170 : 3,117,055
3,117,056
3,155,567
3,157,562
171 : 3,131,114
173 : 3,135,646
175 : 3,128,221
176 : 3,156,606
177 : 3,117,906
3,121,040
3,156,607
179 : 3,138,516
182 : 3,124,502
184 : 3,160,550
186 : RE.25,625
189 : 3,133,854
3,136,680
190 : 3,136,681
3,138,517
191 : 3,131,115
195 : 3,140,221
196 : 3,118,807
204 : 3,157,563
208 : 3,160,551
214 : 3,149,021
3,152,950
218 : 3,123,516
236 : 3,135,647
243 : 3,157,564
249 : 3,135,648
3,144,377
250 : 3,161,560
258 : 3,131,116
261 : 3,159,526
263 : 3,161,561
269 : 3,156,608

Class 162

5 : 3,158,530
3,158,531
9 : 3,124,503
13 : 3,130,114
3,147,178
16 : 3,130,115
18 : 3,148,106
26 : 3,154,464
27 : 3,130,116
29 : 3,154,465
3,159,527
33 : 3,120,464
36 : 3,153,609
43 : 3,145,134
3,145,135
72 : 3,161,562
76 : 3,143,458
3,147,179
3,154,466
103 : 3,158,532
108 : 3,149,022
109 : 3,119,730
3,138,518
111 : 3,145,136
117 : 3,135,649
118 : 3,120,465
122 : 3,144,378
132 : 3,148,107
135 : 3,133,855
3,141,812
3,141,813
135 : 3,146,156
3,149,023
136 : 3,151,016
141 : 3,151,017
145 : 3,127,307
3,142,612
3,150,033
146 : 3,121,658
3,157,566
3,160,552
151 : 3,136,682
152 : 3,136,683
155 : 3,141,814
3,144,379
3,148,108
3,150,034
3,153,610
157 : 3,133,856
161 : 3,151,018
162 : 3,128,222
163 : 3,159,528
164 : 3,119,731
3,120,466
3,129,133
3,141,815
3,144,380
3,146,157
3,146,158
165 : 3,122,468
168 : 3,130,117
3,159,529
174 : 3,119,732
175 : 3,130,118
3,132,066
3,151,019
180 : 3,139,373
181 : 3,128,223
3,129,134
3,132,989
3,149,024
184 : 3,146,159
190 : 3,131,117
3,141,816
3,151,020
197 : 3,161,563
199 : 3,137,613
3,140,222
3,140,974
3,150,035
205 : 3,150,036
206 : 3,122,469
3,124,504
3,149,025
208 : 3,149,026
3,149,027
3,150,037
214 : 3,122,470
216 : 3,123,518
3,135,650
223 : 3,123,519
231 : 3,137,614
232 : 3,139,374
236 : 3,157,565
237 : 3,130,119
3,135,651
3,144,381
3,150,038
3,158,533
258 : 3,152,036
259 : 3,135,652
260 : 3,136,684
268 : 3,151,021
273 : 3,129,135
3,140,223
3,140,975
274 : 3,160,553
277 : 3,135,653
281 : 3,163,575
284 : 3,121,659
303 : 3,149,028
305 : 3,146,160
317 : 3,132,990
336 : 3,117,907
3,119,733
3,135,654
337 : 3,120,467
338 : 3,152,037
342 : 3,119,734
3,123,520
348 : 3,121,660
3,140,224
3,159,530
3,162,567
349 : 3,127,308
352 : 3,140,225
358 : 3,162,568
361 : 3,131,118
371 : 3,139,375
372 : 3,141,817
373 : 3,122,471
374 : 3,136,685
3,149,029
389 : 3,147,180
392 : 3,132,991
402 : 3,118,808
415 : 3,142,613

Class 163

5 : 3,137,340

Class 165

1 : 3,118,495
3,159,208
3,159,209
3,162,240
2 : 3,122,199
5 : 3,144,900
6 : 3,126,945
3,144,901
3,155,151
7 : 3,125,157
3,126,946
3,138,198
3,144,902
3,144,903
3,151,667
3,155,152
8 : 3,155,153
9 : 3,116,785
3,122,200
3,143,166
3,155,154
3,157,226
3,162,241
10 : 3,159,210
11 : 3,130,778
12 : 3,131,756
3,135,316
3,154,137
3,155,155
17 : 3,135,317
3,159,211
19 : 3,150,713
21 : 3,155,156
22 : 3,116,786
3,120,866
3,127,927
3,127,928
3,127,929
3,147,797
25 : 3,132,688
26 : 3,122,201
3,126,947
3,159,212
27 : 3,143,167
29 : 3,127,930
3,135,318
3,139,924
3,157,227
30 : 3,144,078
3,151,668
3,155,157
32 : 3,119,445
3,137,341
3,162,242
35 : 3,131,757
36 : 3,122,202
3,129,753
39 : 3,125,158
3,133,590
3,145,768
3,157,228
40 : 3,117,620
3,126,053
3,134,429
3,158,197
42 : 3,153,441
43 : 3,127,931
3,141,498
49 : 3,148,727
50 : 3,153,442
51 : 3,160,203
52 : 3,118,496
55 : 3,141,499
3,152,636
3,162,243
57 : 3,132,689
61 : 3,140,743
62 : 3,161,232
67 : 3,126,948
3,139,925
3,143,168
3,144,079
3,145,769
3,153,443
3,160,204
68 : 3,163,207
69 : 3,163,208
70 : 3,117,621
73 : 3,144,904
74 : 3,153,444
3,156,296
75 : 3,154,138
76 : 3,153,445
80 : 3,137,342
3,147,798
82 : 3,152,637
83 : 3,129,754
3,163,209
86 : 3,125,159
3,147,799
3,151,669
3,158,198
89 : 3,129,755
3,135,319
3,144,905
90 : 3,116,787
3,120,867
95 : 3,123,132
101 : 3,161,233
105 : 3,138,199
3,154,139
106 : 3,154,140
109 : 3,126,054
110 : 3,132,690
111 : 3,139,926
119 : 3,156,297
120 : 3,116,788
3,138,200
121 : 3,149,666
122 : 3,124,197
3,151,670
3,156,298
135 : 3,125,160
143 : 3,151,672
145 : 3,134,430
146 : 3,130,779
147 : 3,116,789
148 : RE.25,619
3,148,728
151 : 3,135,320
154 : 3,135,321
155 : 3,120,868
3,151,673
157 : 3,118,497
3,129,756
158 : 3,126,949
3,131,758
3,135,322
3,151,674
159 : 3,125,161
3,139,927
3,144,080
160 : 3,134,431
161 : 3,134,432
3,155,158
162 : 3,144,081
163 : 3,116,790
3,117,623
3,130,780
3,138,201
3,161,234
3,163,210
164 : 3,147,800
3,153,446
166 : 3,118,498
3,151,675
3,151,676
167 : 3,117,624
3,157,229
168 : 3,135,323
170 : 3,119,446
3,141,500
3,153,447
171 : 3,120,869
3,159,213
178 : 3,123,133
184 : 3,162,244
185 : 3,117,625
3,147,801
3,147,802
186 : 3,151,677

Class 166

1 : 3,119,447
3,126,950
3,127,932
2 : 3,123,134
3,131,759
3,138,202
3,139,928
3,150,715
3,152,638
3,153,448
3,154,142
3 : 3,121,459
3,127,933
3,145,770
3,152,639
4 : 3,135,324
3,136,359
3,138,203

Class 166—Con.

4 : 3,145,771
3,145,772
3,159,214
3,163,211
5 : 3,148,729
7 : 3,149,668
9 : 3,116,791
3,118,499
3,120,262
3,120,870
3,121,460
3,121,461
3,123,135
3,123,136
3,126,951
3,126,952
3,127,934
3,131,760
3,134,433
3,134,434
3,135,325
3,135,326
3,137,344
3,137,345
3,139,929
3,141,501
3,143,169
3,148,730
3,149,669
3,152,640
3,157,230
3,157,231
3,160,205
3,163,212
3,163,213
3,163,214
10 : 3,147,803
3,159,215
3,163,215
11 : 3,116,792
3,126,953
3,126,954
3,126,955
3,126,956
3,126,957
3,127,935
3,129,757
3,129,758
3,130,781
3,131,761
3,132,692
3,141,502
3,142,336
3,147,804
3,149,670
3,150,716
3,154,143
3,156,299
3,159,216
3,163,216
12 : 3,119,448
3,136,360
3,146,828
3,146,829
14 : 3,129,759
3,154,144
3,163,217
20 : 3,137,346
21 : 3,116,793
3,120,263
3,149,671
3,153,449
25 : 3,134,435
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26 : 3,130,782
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27 : 3,145,773
29 : 3,118,500
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30 : 3,160,206
31 : 3,145,774
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35 : 3,128,824
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36 : 3,139,930
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38 : 3,122,203
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39 : 3,120,264

39 : 3,126,055
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42 : 3,120,265
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43 : 3,141,505
44 : 3,120,266
45 : 3,134,438
46 : 3,130,785
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61 : 3,140,744
63 : 3,135,327
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64 : 3,126,057
3,149,675
66.5 : 3,126,058
.5 : 3,142,337
.5 : 3,143,171
.5 : 3,143,172
.5 : 3,150,717
.5 : 3,156,300
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67 : 3,149,676
68 : 3,126,965
70 : 3,147,808
75 : 3,160,210
85 : 3,136,362
88 : 3,137,348
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89 : 3,151,680
91 : 3,119,449
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92 : 3,133,593
95 : 3,139,932
98 : 3,147,809
99 : 3,120,872
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106 : 3,158,200
114 : 3,134,440
117 : 3,129,762
119 : 3,119,450

120 : 3,120,269
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121 : 3,158,202
122 : 3,122,205
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123 : 3,120,270
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124 : 3,152,643
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129 : Re.25,639
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133 : 3,131,765
134 : 3,128,826
136 : 3,136,365
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154 : 3,131,767
155 : 3,163,226
156 : 3,159,219
157 : 3,145,778
162 : 3,118,503
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164 : 3,121,465
165 : 3,152,644
168 : 3,122,206
169 : 3,123,142
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173 : 3,124,199
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178 : 3,139,933
181 : 3,131,768
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184 : 3,148,731
187 : 3,123,143
3,125,163
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189 : 3,132,694
196 : 3,137,349
202 : 3,119,451
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207 : 3,134,442
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228 : 3,133,595
234 : 3,163,229
237 : 3,135,329
241 : 3,124,196

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14 : 3,132,067
3,149,030
16 : 3,144,382
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17 : 3,123,521
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22 : 3,117,908
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22 : 3,134,710
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3,160,554
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31 : 3,152,039
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32 : 3,117,909
33 : 3,120,468
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37 : 3,134,714
38.6 : 3,125,487
.6 : 3,140,227
.6 : 3,141,819
.7 : 3,132,071
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39 : 3,124,505
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42 : 3,117,057
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46 : 3,117,058
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48 : 3,160,556
51 : 3,121,041
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.5 : 3,123,527
.5 : 3,138,524
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.5 : 3,159,547
52 : Re.25,544
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56 : 3,140,229
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57 : 3,131,123
3,136,692
58 : 3,118,810
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58 : 3,140,230
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59 : 3,150,045
61 : 3,161,566
64 : 3,121,663
3,122,475
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65 : 3,117,910
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68 : 3,129,139
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79 : 3,135,663
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81 : 3,124,510
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82 : 3,119,742
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3,130,126
3,132,074
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3,133,863
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3,134,720
3,136,695
3,140,233
3,142,621
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3,146,169
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3,149,039
3,149,040
3,149,041
3,159,544

82 : 3,160,565
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83 : 3,126,321
3,137,631
3,139,383
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84 : 3,122,479
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.5 : 3,122,480
.5 : 3,124,511
85 : 3,122,481
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87 : 3,123,531
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.1 : 3,145,147
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.1 : 3,148,127
.1 : 3,157,578
88 : 3,117,911
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89 : 3,154,470
90 : 3,140,979
3,150,049
92 : 3,122,482
3,133,866
93 : 3,119,743
3,120,469
3,122,483
3,124,512
3,137,632
3,151,027
3,151,028
94 : 3,150,050

Class 168

22 : 3,163,230
24 : 3,153,452
3,159,220

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2 : 3,119,452
3,135,330
9 : 3,129,765
15 : 3,117,629
3,142,340
17 : 3,135,331
19 : 3,139,143
20 : 3,160,212
22 : 3,135,332
26 : 3,132,695
30 : 3,153,453
31 : 3,139,934
3,149,677
39 : 3,161,236
40 : 3,130,790

Class 170

68 : 3,154,150
76 : 3,149,678
135 : 3,124,200
3,139,935
3,143,173
.24: 3,126,966
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.24: 3,163,231
.4 : 3,120,274
.4 : 3,129,767
.4 : 3,139,936
.4 : 3,143,174
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.73: 3,129,768
.73: 3,146,830
.74: 3,131,770
.74: 3,155,165
.74: 3,161,237
.75: 3,145,779
143 : 3,131,771
150 : 3,134,443
151 : 3,126,061
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159 : 3,119,453
3,123,144

159 : 3,133,596
3,136,369
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.1 : 3,134,444
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.11: 3,128,829
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.13: 3,132,697
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.13: 3,135,335
.13: 3,144,906
.13: 3,145,780
.14: 3,156,301
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.22: 3,134,445
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.24: 3,148,733
.25: 3,118,504
.25: 3,120,276
.25: 3,139,937
.25: 3,144,907
.25: 3,144,908
.25: 3,148,734
.27: 3,156,302
.31: 3,163,233
.32: 3,143,175
.32: 3,148,735
.34: 3,122,207
.43: 3,135,336
.47: 3,116,794
.51: 3,129,766
.55: 3,144,082
.55: 3,147,810
.58: 3,119,454
.58: 3,159,221
.6 : 3,123,145
173 : 3,120,277
3,132,698
3,136,370
3,147,811
3,161,239
176 : 3,148,736
177 : 3,144,909

Class 171

17 : 3,163,234
39 : 3,144,083
42 : 3,126,062
53 : 3,130,791
58 : 3,139,938
3,144,910
3,160,214
63 : 3,117,631
3,139,939
3,151,682
115 : 3,130,792
116 : 3,116,795
136 : 3,142,341

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4 : 3,136,371
5 : 3,117,632
6 : 3,118,505
7 : 3,128,830
3,156,303
3,162,247
8 : 3,123,146
9 : RE.25,512
3,120,278
3,132,699
3,142,342
13 : 3,127,939
3,143,176
14 : 3,125,165
3,133,597
15 : 3,129,770
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3,141,507
3,144,084
3,155,167
16 : 3,123,147
3,126,968
3,150,720
18 : 3,156,304
21 : 3,146,831
3,148,737
3,163,235
3,163,236
25 : 3,129,771
26 : 3,123,148
38 : 3,138,208

41 : 3,136,372
42 : 3,117,633
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44 : 3,135,337
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51 : 3,130,794
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59 : 3,146,832
60 : 3,136,373
66 : 3,162,248
79 : 3,127,940
95 : 3,120,279
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105 : 3,138,209
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119 : 3,139,144
120 : 3,125,166
123 : 3,128,831
126 : 3,146,833
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148 : 3,151,683
157 : 3,120,280
161 : 3,153,456
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224 : 3,128,832
227 : 3,123,151
234 : 3,144,911
239 : 3,123,152
245 : 3,128,833
269 : 3,125,167
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277 : 3,138,210
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285 : 3,158,205
292 : 3,140,745
303 : 3,124,201
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713 : 3,137,352
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751 : 3,120,873
756 : 3,153,457
759 : 3,136,374
762 : 3,124,203
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Class 173

4 : 3,155,171
6 : 3,155,172
7 : 3,162,249
12 : 3,162,250
16 : 3,136,375
19 : 3,141,509
24 : 3,132,701
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33 : 3,141,510
36 : 3,119,455
37 : 3,150,723
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39 : 3,149,680
43 : 3,141,511
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53 : 3,157,235
57 : 3,132,702
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62 : 3,132,703
71 : 3,132,704
73 : RE.25,705
3,154,153
3,162,251
75 : 3,133,600
76 : 3,154,154
91 : 3,162,252
93 : 3,119,456
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94 : 3,160,217
97 : 3,133,601
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98 : 3,127,941
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131 : 3,154,155
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147 : 3,146,836
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148 : 3,162,254
149 : 3,131,776
152 : 3,126,063
160 : 3,118,509
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162 : 3,140,746
163 : 3,152,650
164 : 3,122,211
3,138,212
3,144,085

Class 174

1 : 3,158,679
5 : 3,133,984
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11 : 3,129,276
3,155,765
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12 : 3,138,652
15 : 3,127,467
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3,143,593
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16 : 3,125,628
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17 : 3,129,277
3,143,594
18 : 3,118,966
3,141,922
3,153,114
3,153,115
3,160,701
19 : 3,151,209
25 : 3,144,499
3,145,258
3,163,705
28 : 3,121,136
3,130,256
29 : 3,126,438
3,146,297
3,154,629
31 : 3,126,439
3,154,630
32 : 3,160,702
33 : 3,118,015
35 : 3,126,440
3,129,278
3,140,342
3,147,336
3,152,217
3,153,692
36 : 3,162,717
38 : 3,153,116
3,162,718
40 : 3,127,468
3,136,841

40 : 3,153,117
3,153,693
3,157,731
3,159,708
3,161,721
41 : 3,144,500
42 : 3,121,770
3,128,330
3,133,146
3,163,706
43 : 3,128,331
3,129,279
3,133,985
3,145,259
44 : 3,138,653
45 : 3,150,229
3,159,709
3,162,719
3,162,720
47 : 3,163,707
48 : 3,135,821
3,153,118
49 : 3,146,298
50 : 3,122,603
.52: 3,148,240
.56: 3,140,343
.57: 3,141,058
51 : 3,119,895
3,122,604
52 : 3,117,179
3,126,441
3,144,501
3,144,502
3,144,503
3,149,198
3,153,694
3,153,695
3,154,631
3,155,766
3,163,708
53 : 3,125,629
3,157,732
57 : 3,141,059
59 : 3,135,822
3,141,923
3,150,230
3,151,210
61 : 3,137,763
3,138,654
65 : 3,123,662
3,139,480
3,142,721
67 : 3,140,344
68.5 : 3,117,180
.5 : 3,118,016
.5 : 3,121,771
.5 : 3,128,332
.5 : 3,129,280
.5 : 3,130,257
.5 : 3,135,823
.5 : 3,144,504
.5 : 3,155,767
.5 : 3,157,733
.5 : 3,162,721
.5 : 3,163,709
69 : 3,126,442
3,138,655
70 : 3,121,137
3,127,469
3,144,505
3,152,218
71 : 3,130,258
3,144,506
72 : 3,124,640
3,137,764
3,145,260
3,147,337
3,151,211
3,152,219
3,153,119
73 : 3,141,060
75 : 3,141,061
3,141,924
3,150,231
79 : 3,134,842
3,151,212
84 : 3,123,663
3,124,641
3,126,443
3,138,656
3,143,595
3,144,507
3,145,261
3,150,233
3,151,213
3,152,220
3,163,710
86 : 3,154,632
87 : 3,119,896
3,132,202
3,156,761
3,156,762
88 : 3,123,664
3,124,642

88 : 3,134,843
3,136,842
3,146,299
3,157,734
3,158,680
89 : 3,136,843
90 : RE.25,698
3,136,844
3,137,765
92 : 3,138,657
3,143,596
3,148,241
93 : 3,130,259
94 : 3,122,605
3,125,630
3,134,844
3,138,658
3,156,763
3,156,764
3,157,735
95 : 3,138,659
97 : 3,118,017
99 : 3,121,772
3,140,345
101 : 3,120,574
3,126,444
3,156,765
3,161,722
.5 : 3,155,768
102 : 3,132,203
108 : 3,153,696
110 : 3,119,897
3,162,722
113 : 3,149,199
115 : 3,120,575
116 : 3,163,711
117 : 3,132,204
3,134,845
120 : 3,160,703
121 : 3,127,470
3,155,769
124 : 3,132,205
126 : 3,137,766
127 : 3,146,300
128 : 3,152,221
133 : 3,144,508
135 : 3,127,471
3,158,681
138 : 3,134,846
3,139,481
3,147,338
3,162,723
146 : 3,161,723
3,161,724
147 : 3,118,967
151 : 3,153,697
3,158,682
152 : 3,122,606
3,130,260
3,146,301
153 : 3,123,665
3,126,445
3,134,847
3,138,660
3,138,661
3,141,062
3,155,770
154 : 3,133,147
158 : 3,155,771
160 : 3,139,482
161 : 3,141,925
162 : 3,117,181
164 : 3,163,712
166 : 3,129,281
169 : 3,130,261
173 : 3,154,633
177 : 3,129,282
179 : 3,118,968
3,154,634
212 : 3,141,063

Class 175

2 : 3,118,508
3,130,797
4 : 3,155,174
5 : 3,125,171
3,151,686
3,158,206
3,163,238
6 : 3,139,945
7 : 3,129,774
3,142,343
3,142,344
3,155,175
3,163,239
11 : 3,152,651
14 : 3,116,798
3,122,212
15 : 3,152,652
16 : 3,158,207
18 : 3,129,775
3,131,777
19 : 3,145,783

21 : 3,151,687
25 : 3,151,688
26 : 3,141,512
27 : 3,158,208
40 : 3,145,784
42 : 3,155,176
45 : 3,122,213
3,131,778
50 : 3,149,683
56 : 3,139,146
3,163,240
57 : 3,126,970
3,137,353
3,142,345
58 : 3,123,157
59 : 3,123,158
3,146,837
3,158,209
61 : 3,116,799
65 : 3,138,213
66 : 3,140,747
67 : 3,123,159
3,155,177
69 : 3,130,798
3,155,178
71 : 3,149,684
72 : 3,141,513
3,150,726
3,158,210
73 : 3,145,785
76 : 3,129,776
3,154,156
3,156,310
77 : 3,151,689
78 : 3,148,740
3,150,727
3,154,157
82 : 3,123,160
85 : 3,145,786
3,158,211
3,158,212
3,158,213
92 : 3,130,799
93 : 3,124,205
94 : 3,117,634
95 : 3,161,243
96 : 3,144,086
106 : 3,123,161
107 : 3,133,603
3,145,787
3,149,685
3,159,222
114 : 3,125,172
135 : 3,117,635
3,154,158
161 : 3,132,706
3,152,653
213 : 3,144,912
3,162,255
214 : 3,120,282
215 : 3,155,179
227 : 3,127,942
230 : 3,126,971
3,138,214
233 : 3,139,147
237 : 3,163,241
246 : 3,120,283
3,126,064
3,127,943
252 : 3,162,256
257 : 3,117,636
269 : 3,126,065
270 : 3,142,346
293 : 3,130,800
294 : 3,126,972
298 : 3,132,707
299 : 3,150,728
308 : 3,118,510
3,138,215
317 : 3,116,800
318 : 3,136,376
320 : 3,138,216
321 : 3,151,690
323 : 3,125,173
325 : 3,123,162
3,136,377
3,160,218
329 : 3,127,944
3,127,945
3,135,341
3,153,458
331 : 3,163,242
332 : 3,134,447
335 : 3,159,223
336 : 3,126,066
3,139,148
337 : 3,125,174
3,125,175
339 : 3,144,087
340 : 3,120,284
3,129,777
3,137,354
349 : 3,142,347
371 : 3,151,691

Class 175—Con.

374 : 3,126,067
3,130,801
3,137,355
375 : 3,158,214
378 : 3,126,973
379 : 3,145,788
382 : 3,152,654
386 : 3,145,789
389 : 3,163,243
391 : 3,159,224
393 : 3,131,779
394 : 3,117,637
397 : 3,118,511
398 : 3,158,215
3,163,244
401 : 3,128,835
402 : 3,158,216
403 : 3,162,257
404 : 3,123,163
3,127,946
405 : 3,146,838
408 : 3,120,285
3,120,286
3,128,836
3,163,245
409 : 3,145,790
410 : 3,140,748
3,140,749
3,145,791
3,163,246
412 : 3,132,708
3,139,946
413 : 3,139,149
3,143,177
3,148,741
417 : 3,149,686
418 : 3,155,180

Class 176

1 : 3,152,958
3,152,959
3,155,592
3,156,621
2 : 3,125,492
3 : 3,143,477
5 : 3,117,912
3,120,470
3,155,593
7 : 3,132,996
3,141,826
3,156,622
3,160,566
8 : 3,155,594
3,156,623
11 : 3,137,633
12 : 3,144,392
3,156,624
15 : 3,136,697
17 : 3,127,319
3,140,234
3,140,980
3,141,827
3,149,043
3,151,029
3,154,471
3,158,543
18 : 3,122,484
3,138,534
3,140,235
3,140,236
3,140,237
3,142,624
3,143,478
3,149,044
19 : 3,127,320
3,145,148
3,146,171
3,160,567
3,161,569
3,163,580
20 : 3,151,030
3,151,031
3,152,047
3,152,048
3,153,617
3,153,618
3,155,595
21 : 3,155,596
3,162,577
22 : 3,130,128
24 : 3,128,233
3,136,698
3,163,581
28 : 3,136,699
29 : 3,151,032
3,160,568
30 : 3,122,485
3,138,535
3,140,238
3,143,479
30 : 3,149,045
3,151,933
3,153,619
3,157,579
32 : 3,142,625
3,158,544
3,163,582
33 : 3,119,744
35 : 3,140,981
3,147,188
36 : 3,121,045
3,123,532
3,124,513
3,139,384
3,152,960
3,154,472
3,158,545
3,162,578
3,162,579
37 : 3,154,473
3,158,546
3,159,548
38 : 3,119,745
3,123,533
3,152,961
39 : 3,117,913
3,118,818
3,123,534
3,137,634
3,162,580
40 : 3,132,997
3,134,722
3,138,536
3,152,049
3,156,625
3,161,570
3,163,583
41 : 3,123,535
3,125,760
3,163,584
42 : 3,130,129
3,146,172
43 : 3,128,234
3,132,998
3,137,635
44 : 3,132,076
47 : 3,136,700
50 : 3,119,746
51 : 3,126,322
3,153,620
52 : 3,121,046
53 : 3,149,046
3,150,051
3,151,034
54 : 3,121,666
3,132,999
3,144,393
3,145,149
3,150,052
3,150,053
3,156,626
3,161,571
58 : 3,124,514
3,140,982
3,151,035
3,151,036
3,159,549
59 : 3,127,323
3,127,324
3,150,054
3,152,962
3,161,572
3,162,581
61 : 3,150,055
62 : 3,120,471
3,127,325
3,141,828
3,147,189
64 : 3,154,474
67 : 3,138,537
3,138,538
3,142,626
3,147,190
3,151,037
68 : 3,131,129
3,132,077
3,137,636
3,141,829
3,141,830
3,144,394
3,147,191
3,157,580
69 : 3,117,914
3,121,047
3,129,141
3,129,142
3,158,547
70 : 3,126,323
3,157,581
71 : 3,119,747
3,135,665
3,145,150
3,146,173
72 : 3,147,192
73 : 3,140,983
75 : 3,124,515
3,145,151
76 : 3,129,140
77 : 3,128,235
3,145,152
3,147,193
3,147,194
3,150,056
3,152,963
3,158,548
78 : 3,133,000
3,133,867
3,137,637
3,137,638
3,142,627
3,150,057
3,158,549
79 : 3,118,819
81 : 3,152,964
84 : 3,152,965
3,157,582
85 : 3,149,047
86 : 3,136,701
3,149,048
87 : 3,130,130
3,159,550
3,163,585

Class 177

1 : 3,116,801
3,123,164
3,133,604
3,147,813
3,162,258
3 : 3,141,514
3,163,247
4 : 3,145,792
5 : 3,120,287
6 : 3,145,793
10 : 3,154,159
12 : 3,130,802
14 : 3,117,638
15 : 3,134,448
3,153,459
16 : 3,133,605
3,155,181
25 : 3,137,356
26 : 3,120,288
45 : 3,155,182
46 : 3,124,206
3,131,780
3,148,742
48 : 3,135,342
50 : 3,137,357
52 : 3,135,343
3,152,655
55 : 3,156,311
57 : 3,134,449
58 : 3,138,217
63 : 3,117,639
70 : 3,127,947
3,156,312
76 : 3,128,837
80 : Re.25,609
3,117,640
3,118,512
3,120,289
3,125,176
81 : 3,129,778
3,137,358
105 : 3,124,207
3,124,208
107 : 3,140,750
3,159,225
108 : 3,126,068
3,133,607
114 : 3,129,779
3,132,709
3,142,348
116 : 3,134,450
3,141,515
118 : 3,133,608
3,133,609
120 : 3,143,178
3,143,179
122 : 3,126,974
132 : 3,149,687
3,163,248
133 : 3,153,460
134 : 3,158,217
136 : 3,126,069
3,137,359
3,146,839
138 : 3,151,692
141 : 3,150,729
3,154,160
144 : 3,127,948
145 : 3,119,457
147 : 3,144,088
157 : 3,121,466
157 : 3,159,226
162 : 3,155,183
163 : 3,155,184
3,159,227
164 : 3,142,349
173 : 3,161,244
178 : 3,150,730
3,158,218
181 : 3,128,838
196 : 3,154,161
198 : 3,160,219
202 : 3,116,802
208 : 3,123,165
3,145,794
3,145,795
210 : 3,133,606
211 : 3,123,166
225 : 3,134,451
230 : 3,162,259
234 : 3,151,693
235 : 3,117,641
246 : 3,135,344
3,141,516
247 : 3,140,751

Class 178

2 : 3,144,509
3 : 3,124,643
3,124,644
4 : Re.25,600
3,134,848
3,139,483
.1 : 3,143,597
.1 : 3,147,339
.1 : 3,154,635
5.1 : Re.25,521
.1 : 3,133,986
.1 : 3,140,346
.1 : 3,142,722
.2 : 3,121,138
.2 : 3,123,666
.2 : 3,128,333
.2 : 3,131,252
.2 : 3,134,849
.2 : 3,136,845
.2 : 3,138,662
.2 : 3,144,510
.2 : 3,145,262
.2 : 3,148,242
.2 : 3,153,698
.4 : Re.25,592
.4 : Re.25,636
.4 : 3,118,969
.4 : 3,119,898
.4 : 3,119,899
.4 : 3,120,576
.4 : 3,123,667
.4 : 3,125,631
.4 : 3,126,446
.4 : 3,126,447
.4 : 3,127,472
.4 : 3,128,334
.4 : 3,129,283
.4 : 3,130,262
.4 : 3,130,263
.4 : 3,131,253
.4 : 3,131,254
.4 : 3,133,148
.4 : 3,133,149
.4 : 3,133,987
.4 : 3,134,850
.4 : 3,134,851
.4 : 3,134,852
.4 : 3,135,824
.4 : 3,135,825
.4 : 3,135,826
.4 : 3,136,846
.4 : 3,139,484
.4 : 3,141,064
.4 : 3,141,926
.4 : 3,143,598
.4 : 3,146,302
.4 : 3,147,340
.4 : 3,148,243
.4 : 3,149,200
.4 : 3,152,222
.4 : 3,157,736
.4 : 3,163,713
.8 : 3,118,970
.8 : 3,125,632
.8 : 3,127,473
.8 : 3,128,335
.8 : 3,130,264
.8 : 3,131,255
.8 : 3,135,827
.8 : 3,140,347
.8 : 3,146,303
.8 : 3,146,304
6 : 3,122,607
3,130,265
3,130,266
3,151,214
6 : 3,157,737
.5 : 3,154,636
.6 : 3,125,633
.6 : 3,128,336
.6 : 3,128,337
.6 : 3,131,256
.6 : 3,133,150
.6 : 3,134,853
.6 : 3,135,828
.6 : 3,137,767
.6 : 3,137,768
.6 : 3,141,065
.6 : 3,149,201
.6 : 3,152,223
.6 : 3,157,738
.6 : 3,157,739
.6 : 3,159,710
.6 : 3,159,711
.6 : 3,160,704
.7 : 3,120,577
.7 : 3,151,215
.8 : 3,120,578
.8 : 3,123,668
.8 : 3,128,338
.8 : 3,128,339
.8 : 3,130,267
.8 : 3,136,847
.8 : 3,137,769
.8 : 3,153,699
7.1 : 3,117,182
.1 : 3,144,511
.2 : 3,117,183
.2 : 3,129,284
.2 : 3,131,257
.2 : 3,136,848
.2 : 3,149,202
.2 : 3,158,683
.2 : 3,161,725
.3 : 3,122,608
.3 : 3,144,512
.3 : 3,145,263
.3 : 3,161,726
.4 : 3,118,971
.5 : 3,123,669
.5 : 3,125,634
.5 : 3,125,635
.5 : 3,125,636
.5 : 3,125,637
.5 : 3,136,849
.5 : 3,147,341
.5 : 3,163,714
.6 : 3,148,244
.8 : 3,136,850
.8 : 3,139,485
.82: 3,121,773
.82: 3,129,285
.82: 3,146,305
.85: 3,145,264
.9 : 3,119,900
15 : 3,132,206
3,138,663
17 : Re.25,654
3,133,988
3,146,306
3,150,234
3,154,637
.5 : 3,124,645
.5 : 3,138,664
18 : 3,125,638
3,128,340
3,133,151
3,143,599
3,156,766
19 : 3,125,639
22 : 3,159,712
23 : 3,141,927
3,147,342
3,154,638
3,158,684
3,163,715
25 : 3,124,646
3,128,341
26 : 3,149,203
31 : 3,124,647
33 : 3,153,700
46 : 3,134,854
50 : 3,141,928
3,153,701
53.1 : 3,121,139
58 : 3,156,767
66 : 3,123,670
3,128,342
3,131,258
3,138,665
3,141,066
3,141,929
3,142,723
3,157,740
3,157,741
3,163,716
67 : 3,128,343
68 : 3,156,768
3,162,724
69 : 3,129,286
3,130,268
3,136,851
3,155,772
.5 : 3,141,930
.5 : 3,149,204
.5 : 3,155,773
.5 : 3,157,742
70 : 3,124,648
3,138,666
75 : 3,133,152
79 : 3,123,671
3,162,725
88 : 3,119,901
3,146,307
92 : 3,150,235
108 : 3,160,705

Class 179

1 : Re.25,652
3,118,972
3,122,609
3,124,649
3,126,448
3,126,449
3,126,450
3,128,344
3,129,287
3,130,269
3,130,270
3,132,207
3,132,208
3,133,989
3,133,990
3,135,829
3,135,830
3,136,852
3,136,853
3,136,854
3,138,667
3,140,348
3,142,724
3,142,725
3,144,513
3,145,265
3,146,308
3,146,309
3,147,343
3,153,120
3,153,702
3,154,639
3,155,774
3,156,769
3,156,770
3,156,771
3,158,685
3,158,686
3,159,713
3,160,706
3,160,707
3,160,708
3,162,726
3,162,727
3,162,728
.5 : 3,123,672
.5 : 3,133,991
2 : 3,120,579
3,131,259
3,142,726
3,148,245
3,154,640
5 : 3,124,650
3,131,260
3,136,855
3,140,349
6 : 3,117,184
3,127,474
3,133,992
3,135,831
3,136,856
3,141,931
3,146,310
3,153,121
.3 : 3,146,312
.3 : 3,148,246
7 : 3,156,772
3,156,773
.1 : 3,121,140
.1 : 3,124,651
.1 : 3,133,153
.1 : 3,136,857
.1 : 3,136,858
.1 : 3,140,350
.1 : 3,160,709
.1 : 3,160,710
8 : 3,139,486
3,157,743
3,158,687
15 : Re.25,546
Re.25,699
3,117,185
3,117,186
15 : 3,118,018
3,120,580
3,122,610
3,123,673
3,124,652
3,124,653
3,125,641
3,126,451
3,127,475
3,128,345
3,129,288
3,132,209
3,133,993
3,134,855
3,134,856
3,135,832
3,136,859
3,136,860
3,136,861
3,140,351
3,140,352
3,143,600
3,144,514
3,144,515
3,146,311
3,149,205
3,151,216
3,151,217
3,151,218
3,152,224
3,154,641
3,157,744
3,158,688
3,158,689
3,158,690
3,158,691
3,158,692
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.55: 3,124,654
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.55: 3,139,487
.55: 3,142,727
.55: 3,157,745
.55: 3,158,693
.55: 3,159,720
16 : 3,135,833
3,156,774
3,156,775
17 : 3,128,346
3,140,353
3,154,642
3,156,776
18 : 3,117,187
3,118,019
3,118,973
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3,119,902
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3,121,141
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3,123,674
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3,133,154
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3,134,857
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3,136,862
3,136,863
3,137,770
3,137,771
3,138,668
3,139,488
3,140,354
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3,141,067
3,144,516
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3,147,344
3,148,247
3,149,206

18 : 3,150,236
3,151,219
3,154,643
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3,159,716
3,160,712
3,160,713
3,160,714
3,163,719
22 : 3,127,480
3,129,293
3,156,780
26 : 3,153,122
27 : 3,122,612
3,142,728
3,143,601
3,151,220
.54: 3,132,210
.54: 3,157,747
32 : 3,155,776
38 : 3,128,348
3,130,272
40 : 3,130,273
81 : RE.25,507
3,124,657
3,126,452
3,130,274
3,132,211
3,136,864
3,141,068
3,146,313
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84 : 3,124,658
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3,140,356
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3,145,266
3,146,314
3,150,232
3,153,703
3,155,777
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3,158,694
3,159,717
3,161,728
87 : 3,123,675
89 : 3,126,453
90 : 3,118,020
3,118,975
3,118,976
3,120,582
3,123,676
3,124,659
3,125,643
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3,129,294
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3,134,860
3,135,834
3,140,358
3,153,704
3,156,782
91 : 3,118,021
98 : 3,156,783
99 : 3,150,238
100 : 3,126,454
3,136,865
.1 : 3,126,455
.1 : 3,132,213
.1 : 3,135,835
.1 : 3,135,836
.1 : 3,144,519
.1 : 3,147,346
.1 : 3,154,644
.1 : 3,158,695
.1 : 3,159,718
.2 : 3,117,188
.2 : 3,123,677
.2 : 3,124,660
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.2 : 3,125,644
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.2 : 3,126,456
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.2 : 3,132,214
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.2 : 3,133,160
.2 : 3,136,866

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.2 : 3,139,489
.2 : 3,140,359
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.2 : 3,141,069
.2 : 3,143,603
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.2 : 3,145,268
.2 : 3,146,316
.2 : 3,146,317
.2 : 3,146,318
.2 : 3,147,347
.2 : 3,148,248
.2 : 3,149,207
.2 : 3,152,225
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.2 : 3,152,227
.2 : 3,155,778
.2 : 3,156,784
.2 : 3,156,785
.2 : 3,156,786
.2 : 3,157,748
.2 : 3,157,749
.2 : 3,158,696
.2 : 3,159,501
.2 : 3,161,729
.2 : 3,161,730
.2 : 3,163,720
.2 : 3,163,721
.4 : 3,118,977
.4 : 3,135,837
.4 : 3,138,669
.4 : 3,155,779
.4 : 3,162,730
.41: RE.25,597
.41: RE.25,649
.41: RE.25,662
.41: 3,117,189
.41: 3,117,190
.41: 3,118,978
.41: 3,127,481
.41: 3,133,161
.41: 3,142,729
.41: 3,144,522
.41: 3,146,319
.41: 3,151,221
107 : 3,119,903
3,123,678
3,124,663
3,125,646
3,140,363
3,156,787
110 : 3,130,275
3,159,719
111 : 3,118,022
3,118,979
3,135,838
3,136,867
3,160,715
115 : 3,156,788
.5 : 3,125,647
.5 : 3,132,215
.5 : 3,139,490
.5 : 3,141,070
.5 : 3,141,071
.5 : 3,157,750
.5 : 3,160,716
116 : 3,158,697
119 : 3,133,162
120 : 3,129,298
146 : 3,150,239
3,155,780
147 : 3,118,980
148 : 3,153,123
155 : 3,125,640
156 : 3,128,352
3,134,861
157 : 3,130,276
3,133,996
3,141,072
3,163,722
164 : 3,151,222
170.2 : 3,125,648
.4 : 3,121,774
.6 : 3,128,353
.6 : 3,145,269
175.1 : 3,161,731
.2 : RE.25,551
.2 : 3,121,775
.2 : 3,123,679
.2 : 3,155,781
.2 : 3,159,721
.2 : 3,161,732
.3 : 3,138,670
.3 : 3,143,604
178 : 3,119,904
179 : 3,118,023
3,133,163
.31: 3,130,277

180 : 3,163,723
182 : 3,122,613
3,160,717
185 : 3,148,249
187 : 3,123,680
189 : 3,124,664

Class 180

1 : 3,117,642
3,128,839
3,142,350
5 : 3,136,378
3,140,752
3,146,840
3,148,743
6.3 : 3,138,218
.48: 3,156,313
.48: 3,161,245
.48: 3,161,246
.5 : 3,123,167
.5 : 3,130,803
.5 : 3,158,219
.66: 3,154,162
.7 : 3,131,781
7 : 3,117,643
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3,118,513
3,124,209
3,127,949
3,130,804
3,134,452
3,139,947
3,140,753
3,150,731
3,150,732
3,152,656
3,153,461
3,156,314
3,159,228
3,160,220
3,161,247
3,162,260
8 : 3,134,453
3,135,345
3,142,351
3,145,796
3,150,733
9.2 : 3,163,249
.22: 3,149,688
.24: 3,157,913
.24: 3,158,220
.5 : 3,117,647
10 : 3,161,248
3,161,249
11 : 3,150,734
13 : 3,156,315
14 : 3,130,805
.5 : 3,143,180
19 : 3,135,346
3,150,735
3,150,736
21 : 3,145,797
22 : 3,142,352
3,146,842
3,154,163
3,157,238
3,161,250
23 : 3,129,780
26 : 3,162,261
27 : 3,123,168
31 : 3,118,514
3,155,185
41 : 3,160,221
43 : 3,155,186
3,162,262
3,163,250
44 : 3,123,169
3,129,781
3,137,360
3,145,798
3,154,164
48 : 3,145,799
51 : 3,151,694
3,157,239
3,159,229
54 : 3,147,814
3,151,695
55 : 3,117,648
62 : 3,136,379
64 : 3,116,803
3,135,347
3,139,152
3,161,251
3,161,252
3,163,251
65 : 3,163,252
66 : 3,154,165
68 : 3,121,467
3,123,170
.5 : 3,125,177

69 : 3,157,240
70 : 3,149,689
3,150,737
3,155,187
3,160,222
3,161,253
71 : 3,157,241
73 : 3,118,515
3,123,171
3,123,172
3,147,815
3,149,690
3,157,242
74 : 3,123,173
75 : 3,116,804
3,146,843
77 : 3,117,649
3,128,840
3,134,454
3,137,361
3,146,844
3,146,845
3,150,738
3,152,657
3,157,243
3,158,221
79.1 : 3,132,710
.2 : 3,121,468
.2 : 3,123,174
.2 : 3,130,806
.2 : 3,134,455
.2 : 3,147,816
.2 : 3,148,744
.2 : 3,151,696
.2 : 3,151,697
.2 : 3,153,462
.2 : 3,159,230
.2 : 3,160,223
.2 : 3,161,254
.2 : 3,162,263
.2 : 3,163,253
82 : 3,116,805
3,116,806
3,119,458
3,123,175
3,131,782
3,141,517
3,146,846
3,147,817
3,147,818
3,147,819
3,151,698
3,154,166
3,154,167
3,154,168
.1 : 3,116,807
.1 : 3,120,874
.1 : 3,125,178
.1 : 3,132,711
.1 : 3,133,610
.1 : 3,133,611
.1 : 3,149,691
.1 : 3,155,188
.1 : 3,157,244
89 : 3,125,179
3,126,975
3,146,847
90 : 3,130,807

Class 181

.5 : 3,120,875
.5 : 3,123,176
.5 : 3,123,177
.5 : 3,126,976
.5 : 3,127,950
.5 : 3,130,808
.5 : 3,130,809
.5 : 3,136,380
.5 : 3,136,381
.5 : 3,137,362
.5 : 3,137,363
.5 : 3,138,219
.5 : 3,143,181
.5 : 3,144,089
.5 : 3,144,090
.5 : 3,152,658
.5 : 3,154,169
.5 : 3,154,170
.5 : 3,156,316
.5 : 3,159,231
.5 : 3,159,232
.5 : 3,159,233
.5 : 3,160,224
.5 : 3,161,255
.5 : 3,161,256
20 : 3,155,189
23 : 3,126,977
3,134,456
3,157,245
24 : 3,124,211
3,130,810
3,144,091

24 : 3,152,659
3,157,246
25 : 3,139,150
27 : 3,125,180
3,144,092
3,149,692
3,157,247
30 : 3,139,151
31 : 3,122,214
3,122,215
3,125,181
3,129,782
3 129,783
3,131,783
3,132,712
3,135,348
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3,136,382
3,136,383
3,138,220
3,140,754
3,142,353
3,143,182
3,143,183
3,146,848
3,150,739
3,151,699
3,152,660
3,154,171
3,159,234
3,160,225
3,163,254
32 : 3,130,811
3,132,713
3,152,661
3,153,463
3,154,172
3,154,173
33 : 3,118,516
3,122,216
3,124,212
3,126,978
3,132,714
3,132,715
3,137,364
3,147,820
3,149,693
3,151,700
3,159,235
3,159,236
3,159,238
3,160,226
3,160,227
3,161,257
3,161,258
35 : 3,146,849
36 : 3,133,612
3,162,264
37 : 3,129,784
40 : 3,132,716
42 : 3,159,237
43 : 3,139,153
45 : 3,145,800
3,154,174
46 : 3,144,913
48 : 3,148,745
50 : 3,120,876
3,132,717
3,163,255
51 : 3,120,877
3,143,184
3,151,701
3,162,265
53 : 3,125,182
54 : 3,141,518
55 : 3,126,979
56 : 3,134,457
3,135,350
3,163,256
57 : 3,141,519
58 : 3,130,812
59 : 3,117,650
3,118,517
3,119,459
3,128,841
3,141,520
3,146,850
3,146,851
3,158,222
61 : 3,127,951
3,140,755
3,142,354
3,159,239
64 : 3,121,469
71 : 3,137,365

Class 182

2 : 3,127,952
3,136,385
3,139,948
3,149,694
3,159,240

6 : 3,159,241
12 : 3,141,521
13 : 3,124,213
15 : 3,155,190
16 : 3,156,317
22 : 3,146,852
24 : 3,129,785
3,143,185
33.6 : 3,125,183
36 : 3,130,813
3,139,949
3,158,223
41 : 3,150,740
46 : 3,146,853
3,158,224
57 : 3,135,351
63 : 3,132,718
3,145,801
77 : 3,136,386
82 : 3,120,878
85 : 3,117,651
87 : 3,158,225
91 : 3,149,695
92 : 3,144,093
3,149,696
3,159,242
93 : 3,150,742
95 : 3,143,186
97 : 3,123,178
106 : 3,127,953
3,130,814
3,136,384
3,139,154
3,139,155
3,142,355
112 : 3,130,815
114 : 3,145,802
115 : 3,150,743
120 : 3,146,854
129 : 3,116,808
3,121,470
131 : 3,129,786
134 : 3,121,471
139 : 3,130,816
3,156,318
141 : 3,161,259
142 : 3,150,744
146 : 3,146,855
148 : 3,160,228
149 : 3,128,842
150 : 3,159,243
152 : 3,150,741
3,157,248
153 : 3,148,746
155 : 3,144,914
169 : 3,120,290
182 : 3,162,266
184 : 3,139,950
186 : 3,139,951
194 : 3,142,356
198 : 3,128,843
216 : 3,136,387
221 : 3,135,352
224 : 3,116,809
229 : 3,131,784

Class 184

1 : 3,121,472
3,121,473
3,147,821
3,149,697
3,158,226
3,158,227
.5 : 3,140,756
2 : 3,155,191
3 : 3,144,915
3,147,822
3,163,257
5 : 3,119,460
3,119,461
3,162,267
3,162,268
6 : 3,119,462
3,121,474
3,125,184
3,126,980
3,130,817
3,131,785
3,135,353
3,135,354
3,138,221
3,140,757
3,142,357
3,142,358
3,143,187
3,144,094
3,144,095
3,147,823
3,151,702
3,151,703
3,152,333
3,156,319

6 : 3,160,229
3,162,269
7 : 3,119,463
3,121,475
3,127,954
3,129,787
3,139,952
3,144,096
3,145,803
3,163,258
11 : 3,138,222
3,153,464
13 : 3,144,097
15 : 3,116,810
3,135,355
3,148,747
3,155,192
17 : 3,116,811
18 : 3,127,955
27 : 3,124,214
3,139,156
29 : 3,130,818
3,145,804
3,156,320
55 : 3,129,788
3,131,786
3,135,356
3,143,188
3,149,698
3,160,230
65 : 3,132,719
88 : 3,147,824
91 : 3,120,879
102 : 3,146,856
105 : 3,128,844
3,144,916
106 : 3,141,522

Class 185

2 : 3,136,388
11 : 3,159,244
37 : 3,126,070
3,148,748
3,151,704
39 : 3,120,291
3,137,366
40 : 3,123,179
3,143,189
3,144,098
3,160,231

Class 186

1 : 3,126,981
3,140,758
3,152,662

Class 187

8.59: 3,117,652
.74: 3,155,193
.75: 3,149,699
.75: 3,149,700
9 : 3,116,812
3,127,956
3,135,357
3,143,190
12 : 3,121,476
17 : 3,120,880
19 : 3,126,071
3,127,957
29 : RE.25,665
3,123,180
3,126,982
3,138,223
3,144,917
3,146,857
3,146,858
3,160,232
32 : 3,158,228
76 : 3,132,720
3,153,465
89 : 3,119,464

Class 188

1 : 3,116,813
3,124,215
3,126,072
3,128,845
3,130,819
3,132,721
3,141,523
3,141,524
3,144,918
3,160,233
2 : 3,126,073
3,144,099
3,144,100
3,162,270
3 : 3,135,358
4 : 3,158,229

Class 188—Con.

5 : 3,119,465
3,142,359
17 : 3,134,458
18 : 3,122,217
3,156,321
24 : 3,141,525
29 : 3,117,653
3,117,654
31 : 3,139,953
32 : 3,119,466
3,120,292
3,145,805
3,157,249
33 : 3,160,234
36 : 3,132,722
38 : 3,120,293
52 : 3,119,467
59 : 3,122,218
3,122,219
3,143,191
3,148,749
3,152,663
62 : 3,125,185
3,132,723
3,139,954
3,141,526
3,163,259
65.1 : 3,123,181
.1 : 3,123,182
.1 : 3,143,192
67 : 3,144,919
69 : 3,153,466
70 : 3,137,367
3,139,955
3,146,859
72 : 3,121,477
3,124,216
3,129,789
3,133,613
3,136,389
3,146,860
3,148,750
3,151,705
3,160,235
73 : 3,119,468
3,123,183
3,124,217
3,129,790
3,132,724
3,133,614
3,134,459
3,135,359
3,135,360
3,137,368
3,139,157
3,140,759
3,141,527
3,141,528
3,145,806
3,145,807
3,146,861
3,149,701
3,150,745
3,154,175
3,155,194
3,155,195
3,156,325
3,158,230
3,162,271
3,162,272
75 : 3,155,196
76 : 3,159,245
77 : 3,154,176
78 : 3,118,518
3,126,983
3,126,984
3,128,846
3,135,361
3,135,362
3,136,390
3,138,224
3,140,760
3,145,808
3,147,825
3,152,664
3,156,322
3,157,250
3,161,260
3,162,273
79.5 : 3,118,519
.5 : 3,121,478
.5 : 3,126,074
.5 : 3,128,847
.5 : 3,128,848
.5 : 3,128,849
.5 : 3,131,787
.5 : 3,136,391
.5 : 3,150,746
.5 : 3,156,323
.5 : 3,160,236
80 : 3,156,324
82.2 : Re.25,594
.7 : 3,126,985
85 : 3,163,260
86 : 3,155,197
87 : 3,160,237
88 : 3,121,479
3,125,186
3,127,958
3,132,725
3,134,460
3,146,862
3,147,826
3,150,747
3,152,665
3,154,177
90 : 3,119,469
3,122,220
3,124,218
3,136,392
3,139,158
3,140,761
3,142,360
3,142,361
3,146,863
3,158,231
3,162,274
92 : 3,159,246
93 : 3,152,666
94 : 3,158,232
3,163,261
96 : 3,142,362
3,147,827
3,161,261
97 : 3,123,184
3,142,363
3,155,198
100 : 3,116,814
3,133,615
3,139,159
3,151,706
3,152,667
3,163,262
106 : 3,116,815
3,122,221
3,128,850
111 : 3,117,655
112 : 3,137,369
3,141,529
3,144,101
119 : 3,126,075
3,134,461
129 : 3,134,462
3,162,275
135 : 3,151,707
138 : 3,134,463
151 : 3,163,263
152 : 3,125,187
3,137,370
3,139,956
3,144,920
3,160,238
3,162,276
153 : 3,131,788
161 : 3,160,239
163 : 3,141,530
164 : 3,148,751
167 : 3,125,188
170 : 3,118,520
3,155,199
3,159,247
171 : 3,139,160
3,151,708
3,158,233
3,160,240
173 : 3,124,219
180 : 3,144,102
181 : 3,124,220
185 : 3,149,702
195 : 3,120,881
3,160,241
196 : 3,122,222
3,143,193
3,145,809
3,154,178
3,155,200
3,156,326
3,158,234
197 : 3,158,235
198 : 3,136,393
199 : 3,130,820
200 : 3,119,470
202 : 3,160,242
204 : 3,120,294
218 : 3,120,882
3,147,828
3,151,709
3,151,710
243 : 3,124,221
261 : 3,140,762
264 : Re.25,517
3,118,521
264 : 3,127,959
3,142,364
3,156,327
265 : 3,155,201

Class 189

1 : 3,125,189
3,127,960
3,134,464
3,139,957
3,144,103
3,146,864
3,148,752
3,149,703
3,157,251
3,162,277
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2 : 3,133,616
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3,139,958
11 : 3,136,394
3,156,328
3,161,262
12 : 3,119,471
15.5 : 3,156,329
21.2 : 3,118,522
23 : 3,161,263
26 : 3,135,363
3,147,829
3,161,264
28 : 3,157,252
3,157,253
29 : 3,125,190
3,132,726
3,135,364
31 : 3,159,248
3,163,264
.1 : 3,152,668
32 : 3,142,365
34 : 3,118,523
3,122,223
3,123,185
3,123,186
3,124,222
3,125,191
3,125,192
3,125,193
3,126,986
3,127,961
3,128,851
3,128,852
3,129,791
3,129,792
3,129,793
3,131,789
3,131,792
3,134,465
3,134,466
3,136,395
3,139,959
3,139,960
3,140,763
3,141,531
3,143,194
3,144,104
3,145,810
3,150,748
3,151,711
3,151,712
3,151,713
3,152,669
3,153,467
3,154,179
3,155,202
3,157,254
3,157,255
3,158,236
3,159,249
3,160,243
3,160,244
3,160,245
3,160,246
3,160,247
3,160,248
3,161,265
3,161,266
3,161,267
3,163,265
35 : 3,119,472
3,130,821
3,134,467
3,137,372
3,138,225
3,144,105
3,163,266
36 : 3,116,816
3,117,656
3,119,473
3,121,480
3,123,187
3,123,188
36 : 3,127,962
3,131,790
3,137,373
3,138,226
3,138,227
3,139,161
3,142,366
3,143,195
3,152,670
3,154,180
3,156,330
3,160,249
.5 : 3,138,228
.5 : 3,162,279
37 : 3,122,224
3,124,223
3,131,791
3,134,468
3,140,764
3,141,532
3,142,367
3,152,671
3,162,280
3,163,267
39 : 3,145,811
41 : 3,125,194
3,152,672
3,159,250
45 : 3,147,830
3,160,250
46 : 3,117,657
3,119,474
3,120,295
3,127,963
3,136,396
3,141,533
3,143,196
3,147,831
3,155,203
3,156,331
62 : 3,123,189
3,143,197
63 : 3,120,883
3,121,481
3,151,714
64 : 3,121,482
3,124,224
3,150,749
65 : 3,138,229
69 : 3,161,268
72 : 3,148,753
3,162,281
75 : 3,131,793
3,138,230
3,148,754
3,151,715
3,156,332
76 : 3,162,282
77 : 3,155,204
78 : 3,155,205
82 : 3,119,475
3,125,195
3,125,196
85 : 3,127,964
3,149,704
3,158,237
3,159,251
3,159,252
86 : 3,131,794
88 : 3,119,476
3,120,296
3,120,884
3,127,965
3,130,822
3,132,727
3,136,397
3,139,162
3,139,961
3,147,832
3,151,716
3,153,468
3,155,206
3,160,251
90 : 3,139,163
3,145,812
3,157,256
92 : 3,135,365
3,141,534
3,144,106

Class 190

16 : 3,124,225
18 : 3,163,268
37 : 3,125,197
41 : 3,128,853
3,128,854
3,135,366
3,141,535
3,141,536
43 : 3,120,297
3,126,076
43 : 3,139,164
3,139,165
44 : 3,130,823
48 : 3,158,238
3,159,253
49 : 3,128,855
3,128,856
51 : 3,123,190
3,125,198
3,136,398
3,137,374
52 : 3,122,225
53 : 3,126,077
58 : 3,161,271

Class 191

1 : 3,137,375
12.2 : 3,128,857
.4 : 3,146,865
.4 : 3,147,833
23 : 3,125,199
3,155,207
35 : 3,152,673
41 : 3,128,858
45 : 3,142,368
58 : 3,123,191
59.1 : 3,124,226
65 : 3,146,866

Class 192

.02: 3,120,298
.02: 3,134,469
.02: 3,145,813
.062 3,129,795
.07: 3,129,794
.07: 3,132,728
.092 3,121,483
.096 3,131,795
3 : 3,119,477
3,125,200
3,126,078
3,126,987
3,127,966
3,128,859
3,139,166
3,145,814
3,156,333
3,158,239
.2 : 3,118,524
.2 : 3,126,079
.2 : 3,130,824
.2 : 3,142,369
.2 : 3,151,717
.2 : 3,151,718
.2 : 3,152,675
.2 : 3,156,335
.2 : 3,163,269
.2 : 3,163,270
.2 : 3,163,271
.5 : 3,126,988
.5 : 3,126,989
.5 : 3,134,470
4 : 3,116,817
3,117,658
3,117,659
3,119,478
3,123,192
3,125,201
3,126,990
3,126,991
3,128,860
3,132,729
3,135,367
3,136,399
3,146,867
6 : 3,122,226
3,130,825
3,135,368
3,152,674
8 : 3,119,479
3,127,967
3,135,369
3,146,868
12 : 3,130,826
13 : 3,130,827
3,144,107
3,155,208
16 : 3,138,231
17 : 3,128,861
18 : 3,123,193
3,157,257
21.5 : 3,144,921
24 : 3,161,269
27 : 3,145,815
30.5 : 3,129,796
.5 : 3,144,108
.5 : 3,144,109
.5 : 3,156,334
34 : 3,162,283
35 : 3,149,705
35 : 3,149,706
3,160,252
38 : 3,150,750
41 : 3,117,660
43 : 3,158,244
.1 : 3,149,707
44 : 3,119,480
3,134,471
45 : 3,118,525
.1 : 3,119,481
.1 : 3,124,228
47 : 3,125,202
48 : 3,129,797
3,138,232
3,157,258
53 : 3,158,240
3,161,270
56 : 3,124,227
3,127,968
3,132,730
3,136,400
3,147,834
57 : 3,150,751
58 : 3,120,299
3,133,617
3,135,370
3,144,922
3,155,209
3,159,254
61 : 3,144,923
66 : 3,130,828
67 : 3,132,731
3,137,376
3,154,181
3,159,255
68 : 3,118,526
3,128,862
69 : 3,138,233
3,162,284
71 : 3,148,755
74 : 3,161,272
81 : 3,128,863
3,128,864
3,159,256
82 : 3,158,241
84 : Re.25,516
3,129,798
3,147,835
3,157,259
3,157,260
3,158,242
3,158,243
3,162,285
3,163,272
3,163,273
85 : 3,131,796
3,151,719
88 : 3,163,274
89 : 3,160,253
3,162,286
91 : 3,145,816
93 : 3,127,969
94 : 3,126,080
103 : 3,131,797
104 : 3,159,257
105 : 3,128,865
3,144,110
3,145,817
107 : 3,118,527
3,127,970
3,148,756
3,152,676
110 : 3,156,336
111 : 3,117,661
129 : 3,129,799
3,147,836
136 : 3,145,818
3,161,273
142 : 3,150,752
3,157,261
148 : 3,156,337

Class 193

2 : 3,124,229
3 : 3,151,720
10 : 3,157,262
14 : 3,127,971
16 : 3,126,992
17 : 3,147,837
25 : 3,134,472
3,150,753
27 : 3,141,537
31 : 3,118,528
32 : 3,116,818
3,136,401
3,139,962
3,158,245
3,159,258
35 : 3,120,885
3,130,829
3,131,799
35 : 3,144,111
3,146,869
37 : 3,117,662
3,118,529
3,139,963
39 : 3,121,484
40 : 3,117,663
43 : 3,116,819
3,126,993
3,146,870
3,160,254
3,161,274

Class 194

1 : 3,125,203
3,126,994
3,131,800
3,139,167
3,145,819
3,149,708
3,154,182
3,155,210
3,155,211
3,156,339
3,160,255
2 : 3,119,483
3,119,484
3,121,485
3,132,732
3,148,757
3,158,246
3,163,275
4 : 3,122,227
3,126,081
3,131,798
3,136,402
3,145,820
3,153,469
3,159,259
7 : 3,163,276
8 : 3,141,538
9 : 3,140,765
3,142,370
3,144,112
10 : 3,134,473
3,137,377
3,147,838
3,155,212
3,156,340
3,158,247
3,159,260
13 : 3,119,485
3,159,261
15 : 3,143,198
3,143,199
3,146,871
3,151,721
16 : 3,128,866
18 : 3,133,618
3,144,924
19 : 3,126,995
3,155,213
37 : 3,144,113
48 : 3,149,709
54 : 3,121,486
3,157,263
61 : 3,117,664
3,159,262
64 : 3,133,619
67 : 3,120,886
3,163,277
71 : 3,139,168
3,158,248
72 : 3,136,403
3,150,754
3,160,256
84 : 3,126,996
3,140,766
3,144,114
3,161,275
85 : 3,162,287
92 : 3,137,378
94 : 3,126,082
3,144,115
97 : 3,163,278
100 : 3,147,839
3,152,677
102 : 3,120,300
3,145,821
3,155,214

Class 195

2 : 3,160,569
6 : 3,121,049
3,131,130
3,133,002
14 : 3,157,583
28 : 3,118,820
3,128,236
3,135,666

28 : 3,138,539
3,139,385
3,150,058
3,152,050
3,152,966
3,152,967
3,163,586
29 : 3,123,536
30 : 3,117,062
3,117,915
3,133,868
3,139,386
3,139,387
3,140,239
31 : 3,117,063
3,137,639
3,149,049
32 : 3,151,038
36 : 3,118,821
3,121,667
3,125,494
3,127,326
3,139,388
3,139,389
3,144,395
3,150,059
3,161,573
3,162,582
38 : 3,158,550
47 : 3,120,472
3,121,668
3,121,669
3,123,537
3,128,237
3,136,702
3,138,540
3,141,831
3,156,627
48 : 3,123,538
51 : 3,118,822
3,119,748
3,119,749
3,125,495
3,128,238
3,129,143
3,131,131
3,138,541
3,143,480
3,147,195
3,149,050
62 : 3,127,327
3,151,039
63 : 3,126,324
65 : 3,149,051
3,157,584
66 : 3,123,539
3,124,517
3,134,723
3,135,667
3,136,703
3,138,542
3,140,984
3,141,832
3,145,153
3,147,196
3,150,060
67 : 3,139,390
68 : 3,119,750
3,133,001
70 : 3,141,833
3,149,052
3,149,053
3,158,551
3,159,551
71 : 3,134,724
80 : 3,117,916
3,118,823
3,121,670
3,127,328
3,130,131
3,136,704
3,137,640
3,142,628
3,145,154
3,146,174
3,153,621
3,154,475
3,154,476
3,158,552
3,159,552
3,160,570
81 : 3,117,917
3,133,003
82 : 3,120,473
3,150,061
96 : 3,150,062
99 : 3,138,543
103.5 : 3,119,751
.5 : 3,126,325
.5 : 3,127,329
.5 : 3,138,544
.5 : 3,149,054

127 : 3,128,239
3,129,144
3,147,197
131 : 3,135,668
139 : 3,134,725
3,158,553

Class 196

46 : 3,124,518

Class 197

1 : 3,145,822
6.7 : 3,116,820
.7 : 3,129,800
.7 : 3,155,215
14 : 3,160,257
16 : 3,133,620
3,135,371
3,157,264
3,157,265
17 : 3,129,801
3,151,722
20 : 3,120,301
42 : 3,162,288
45 : 3,124,230
60 : 3,123,194
65 : 3,162,289
82 : 3,126,998
83 : 3,133,621
84 : 3,144,116
3,149,710
91 : 3,149,711
3,154,183
114 : 3,163,279
120 : 3,117,666
127 : 3,122,228
3,139,169
3,148,758
128 : 3,137,379
133 : 3,123,195
3,134,474
3,159,263
3,161,276
3,161,277
138 : 3,157,266
139 : 3,129,802
149 : 3,154,184
151 : 3,151,723
3,151,724
3,152,678
3,154,185
3,162,290
153 : 3,159,264
157 : 3,139,964
170 : 3,137,380
172 : 3,138,234
3,141,539
3,143,200
3,156,338
175 : 3,145,823
176 : 3,121,487
3,151,725
179 : 3,150,755
180 : 3,120,302
3,147,840
181 : 3,155,216
186 : 3,123,196
3,135,372
191 : 3,137,381

Class 198

1 : 3,127,972
3,140,767
3,150,756
3,163,280
7 : 3,120,887
3,126,083
3,127,973
3,140,768
3,140,769
3,140,770
3,157,267
8 : 3,159,265
9 : 3,121,488
3,160,258
16 : Re.25,531
3,126,084
3,132,733
3,137,382
3,144,117
3,144,118
3,146,872
3,150,757
3,151,726
3,153,470
19 : 3,116,821
3,119,486
3,123,197
3,125,204

19 : 3,128,867
3,133,622
3,139,170
3,149,712
3,152,679
3,155,217
3,158,249
20 : 3,124,231
3,126,085
3,126,999
3,131,801
3,134,475
3,134,476
3,139,171
3,140,771
3,152,680
3,157,268
21 : 3,116,822
3,125,205
3,158,250
3,160,259
22 : 3,148,759
23 : 3,157,269
24 : 3,125,206
3,126,086
3,144,925
3,148,760
3,149,713
3,151,727
25 : 3,121,489
3,124,232
3,135,373
3,150,758
26 : 3,133,623
27 : 3,145,824
3,150,759
29 : 3,154,186
3,159,266
30 : 3,117,665
3,145,825
3,155,218
3,162,291
31 : 3,127,974
3,129,803
3,139,965
3,150,760
3,150,761
3,153,471
3,153,472
32 : 3,127,975
3,140,772
3,144,119
3,151,728
3,158,251
33 : 3,118,530
3,119,482
3,119,487
3,120,888
3,120,889
3,120,890
3,123,198
3,123,199
3,125,207
3,125,208
3,127,000
3,127,001
3,128,868
3,131,802
3,132,734
3,134,477
3,137,383
3,139,172
3,142,371
3,143,201
3,144,120
3,144,121
3,145,826
3,145,827
3,146,873
3,147,841
3,147,842
3,147,843
3,148,761
3,148,762
3,149,714
3,150,762
3,151,729
3,153,473
3,154,187
3,155,219
3,156,342
3,162,292
3,162,293
3,163,281
3,163,282
34 : 3,124,233
3,126,087
3,136,404
3,142,372
3,143,202
3,144,122
3,145,828

34 : 3,147,844
3,154,188
3,155,220
3,155,221
3,155,222
3,156,343
3,162,294
35 : 3,117,667
3,122,229
3,122,230
3,160,260
36 : 3,125,209
37 : 3,129,804
38 : Re.25,673
3,118,531
3,123,200
3,139,966
3,141,540
3,144,926
3,146,874
3,146,875
3,146,876
3,147,845
3,150,763
3,151,730
3,151,731
3,152,681
3,152,682
3,157,270
3,163,283
39 : 3,146,877
40 : 3,126,088
3,133,624
3,138,235
3,153,474
41 : 3,120,891
3,144,927
3,150,764
3,161,278
3,162,296
43 : 3,132,735
55 : 3,161,279
57 : 3,148,763
60 : 3,139,967
64 : 3,133,625
3,134,478
72 : 3,144,928
75 : 3,152,683
78 : 3,122,231
85 : 3,160,261
91 : 3,154,189
3,156,344
92 : 3,151,732
96 : 3,128,869
99 : 3,147,846
103 : 3,138,237
104 : 3,127,002
107 : 3,152,684
109 : 3,134,479
3,135,374
3,154,190
3,161,280
110 : 3,162,297
113 : 3,139,173
117 : 3,134,480
120.5 : 3,139,968
.5 : 3,141,541
126 : 3,142,373
127 : 3,122,232
3,124,234
3,127,003
3,129,805
3,132,736
3,138,238
3,156,345
3,158,252
128 : 3,124,235
3,127,976
3,127,977
3,128,870
3,136,405
3,139,969
3,153,476
3,155,223
130 : 3,121,490
131 : Re.25,706
3,123,201
3,135,375
3,138,239
3,140,773
3,147,847
3,150,765
3,155,224
3,157,271
134 : 3,160,262
135 : 3,127,004
137 : 3,140,774
3,162,298
139 : 3,127,978
3,146,878
3,158,253
145 : 3,145,829

146 : 3,119,488
149 : 3,144,123
152 : 3,163,284
153 : 3,161,281
155 : 3,147,848
158 : 3,147,849
3,162,299
160 : 3,116,823
3,127,979
3,136,406
164 : 3,151,733
165 : 3,122,233
3,132,737
3,142,374
3,144,929
167 : 3,122,234
168 : 3,134,481
3,147,850
169 : 3,124,236
171 : 3,124,237
3,126,089
3,155,225
173 : 3,127,005
174 : 3,140,775
3,160,263
175 : 3,139,174
177 : 3,119,489
3,127,006
3,139,175
178 : 3,134,482
179 : 3,120,892
181 : 3,117,668
3,122,235
182 : 3,153,475
3,155,226
183 : 3,141,542
184 : 3,126,997
3,128,871
3,132,738
3,139,970
185 : 3,135,376
3,139,971
3,153,477
187 : 3,150,766
188 : 3,128,872
189 : 3,138,236
3,144,124
3,160,267
192 : 3,118,532
3,124,238
3,126,090
3,133,626
3,138,240
3,141,543
3,145,830
3,157,272
3,158,254
3,161,282
193 : 3,127,007
3,129,806
3,144,930
3,159,267
195 : 3,127,980
3,139,176
3,155,227
3,160,264
196 : 3,123,202
3,162,295
198 : 3,147,851
202 : 3,150,767
3,159,268
203 : 3,141,544
3,150,768
204 : 3,116,824
3,120,303
3,124,239
3,147,852
3,147,853
3,157,273
209 : 3,125,210
3,138,241
3,153,478
210 : 3,139,177
3,148,764
3,151,734
3,155,228
211 : 3,139,972
3,142,375
213 : 3,125,211
3,127,008
3,132,739
3,136,407
3,138,242
3,141,545
3,144,125
3,148,765
214 : 3,135,377
215 : 3,158,255
218 : 3,139,973
3,151,735

218 : 3,152,685
219 : 3,128,873
3,130,830
3,154,191
3,161,284
220 : 3,123,203
3,128,874
3,130,831
3,133,627
3,133,628
3,134,483
3,139,974
3,145,831
3,158,256
3,159,269
3,160,265
221 : 3,127,981
3,128,875
3,128,876
3,140,776
3,146,879
3,158,257
223 : 3,156,346
224 : 3,128,877
226 : 3,156,348
230 : 3,139,975
3,159,270
3,160,266
3,161,285
232 : 3,129,807
3,147,854
3,149,715
3,161,286
233 : 3,132,740
3,147,855
3,156,341

Class 199

18 : 3,127,982
3,139,178
3,148,766
50 : 3,161,287
61 : 3,143,203
67 : 3,127,983
76 : 3,156,347

Class 200

1 : 3,156,789
4 : 3,134,862
5 : 3,118,024
3,118,025
3,120,583
3,120,584
3,126,457
3,127,482
3,133,164
3,135,839
3,136,868
3,136,869
3,137,773
3,139,491
3,143,605
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6 : 3,120,585
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8 : 3,135,840
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10 : 3,124,665
11 : 3,119,905
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15 : 3,132,217
3,132,218
16 : 3,118,026
3,137,774
3,140,365
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17 : 3,156,790
18 : 3,153,705
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18 : 3,163,725
19 : 3,124,666
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23 : 3,146,322
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24 : 3,119,907
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26 : 3,155,783
27 : 3,126,458
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30 : 3,131,266
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32 : 3,122,614
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33 : 3,123,681
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34 : 3,118,027
3,133,165
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35 : 3,120,586
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37 : 3,146,324
38 : Re.25,656
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39 : 3,117,191
3,126,459
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42 : 3,153,707
3,155,786
43 : 3,143,607
44 : 3,141,933
3,160,720
46 : 3,127,484
3,144,524
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3,156,793
47 : 3,126,460
48 : 3,117,192
3,123,684
3,124,669
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3,147,348
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51 : 3,123,686
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3,158,703

Class 200—Con.

51.08: 3,154,646
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.09: 3,138,675
.09: 3,144,527
.09: 3,149,211
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52 : 3,159,726
56 : 3,157,755
60 : 3,160,722
61.04: 3,163,729
.05: 3,127,485
.06: 3,123,687
.06: 3,143,610
.08: 3,117,194
.08: 3,158,705
.18: 3,120,587
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.22: 3,158,706
.25: 3,117,195
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.7 : 3,149,212
.7 : 3,157,756
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.86: 3,120,589
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63 : 3,150,243
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74 : 3,141,076
76 : 3,144,530
77 : 3,117,199
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80 : 3,129,301
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81 : 3,123,689
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.9 : 3,126,463
.9 : 3,140,368
.9 : 3,148,254
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82 : 3,118,030
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82 : 3,118,986
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83 : 3,119,910
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86.5 : 3,117,200
.5 : 3,118,031
.5 : 3,155,789
87 : 3,117,201
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88 : 3,125,651
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90 : 3,129,303
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3,151,228
91 : Re.25,641
3,156,798
92 : 3,139,494
93 : 3,121,148
3,121,149
3,128,357
93 : 3,161,744
97 : 3,135,847
3,139,495
98 : 3,127,487
3,144,532
3,150,244
102 : 3,118,989
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104 : 3,118,033
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105 : 3,122,618
106 : 3,127,488
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111 : 3,121,150
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112 : 3,128,358
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113 : 3,117,203
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.5 : 3,145,280
.5 : 3,161,746
.5 : 3,162,741
114 : 3,118,990
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115 : 3,153,127
3,153,128
.5 : 3,135,848
116 : 3,117,204
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120 : 3,122,619
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3,156,801
121 : 3,132,224
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122 : 3,122,620
3,123,695
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122 : 3,131,274
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3,140,370
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3,152,234
3,152,235
3,154,654
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123 : 3,144,534
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125 : 3,161,748
127 : 3,152,236
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135 : 3,140,371
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137 : 3,117,205
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139 : Re.25,522
140 : 3,118,993
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142 : 3,118,994
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144 : 3,118,036
3,123,698
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146 : 3,132,225
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147 : 3,133,175
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147 : 3,147,358
3,154,657
3,155,801
3,158,722
148 : Re.25,631
3,118,995
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3,129,309
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3,133,166
3,133,176
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3,134,876
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151 : 3,128,361
152 : 3,122,621
3,141,084
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153 : 3,120,595
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157 : 3,117,206
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159 : 3,122,622
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160 : 3,142,743
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164 : 3,137,778
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165 : 3,119,915
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166 : 3,118,037
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167 : 3,157,771
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168 : 3,118,039
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172 : 3,121,777
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3,134,881
3,137,780
3,141,947
3,142,744
3,146,330
3,150,248
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3,156,806

Class 202

1 : 3,133,869
7 : 3,130,132
3,141,834
11 : 3,120,474
14 : 3,117,064
3,136,705
3,140,240
15 : 3,140,985
22 : 3,146,175
26 : 3,117,918
3,140,241
3,140,242
3,151,040
31 : 3,130,133
33 : 3,121,050
3,151,041
3,162,583
39.5 : 3,133,870
.5 : 3,134,726
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.5 : 3,152,051
.5 : 3,152,968
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3,136,706
3,139,391
3,140,243
3,149,055
3,151,042
3,151,043
3,151,044
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3,158,554
3,159,553
42 : 3,122,486
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3,132,078
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3,151,045
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45 : 3,122,487
46 : 3,127,330
3,140,244
3,143,481
3,151,046
3,151,047
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51 : 3,129,145
3,129,146
3,147,199
3,147,200
52 : 3,121,051
3,121,671
3,133,004
3,134,727
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3,140,986
53 : 3,155,600
57 : 3,119,752
3,131,132
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59 : 3,129,147
67 : 3,132,079
120 : 3,150,063
129 : 3,148,128
141 : 3,123,540
160 : 3,123,541
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173 : 3,142,381
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182 : 3,160,572
187 : 3,147,201
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Class 204

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38 : 3,133,005
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39 : Re.25,630
41 : 3,152,971
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46 : 3,149,057
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47 : 3,123,544
3,150,065
49 : 3,122,490
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56 : 3,118,824
58 : Re.25,566
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59 : 3,118,825
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60 : 3,146,179
61 : 3,163,590
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67 : 3,119,755
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71 : 3,126,327
72 : 3,130,136
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75 : 3,140,989
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82 : 3,131,137
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146 : 3,151,049
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148 : 3,137,642
151 : 3,135,674
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176 : 3,140,990
177 : 3,152,056
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180 : 3,129,158
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181 : 3,159,558
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184 : 3,153,623
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188 : 3,148,133
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193.2 : 3,120,480
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225 : 3,127,338
226 : 3,156,638
228 : 3,121,054
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3,161,579
244 : 3,133,008
3,151,053
247 : 3,118,827
263 : 3,141,841
269 : 3,119,760
272 : 3,117,071
278 : 3,129,162
288 : 3,161,580
290 : 3,118,828
3,129,163
296 : 3,152,061
298 : 3,133,874
299 : 3,118,829
3,125,500
3,133,009
3,157,588
301 : 3,124,522
3,149,062
3,150,069
3,152,062
302 : 3,117,920
3,121,055
3,148,134
312 : 3,135,679
316 : 3,150,070

Class 205

1 : 3,146,880
3 : 3,138,243
3,142,376
3,152,686
7 : 3,131,803
3,137,384
3,155,229
8 : 3,131,804
3,163,285
14 : 3,130,832
3,133,629
15 : 3,158,258
16 : Re.25,526
3,159,271
20 : 3,143,204
25 : 3,145,832
26 : 3,157,274

Class 206

.4 : 3,137,385
.4 : 3,149,716
.4 : 3,151,736
.4 : 3,152,689
.5 : 3,151,737
.8 : 3,127,009
.81: 3,138,244
.81: 3,141,546
.82: 3,139,976
.82: 3,155,236
.83: 3,139,977
.83: 3,145,833
1 : 3,123,204
3,133,630
3,136,408
3,140,777
3,141,547
3,141,548
3,144,126
3,145,834
3,145,835
.5 : 3,155,230
3 : 3,163,286
4 : Re.25,530
3,127,984
3,139,179
3,143,205
3,160,268
5 : 3,124,240
3,129,808
3,144,127
7 : 3,131,805
3,138,245
3,139,978
13 : 3,155,231
15.1 : 3,127,985
.1 : 3,136,409
.1 : 3,148,767
.2 : 3,160,269
16 : 3,126,091
3,127,986
3,131,806
3,133,631
3,151,738
.5 : 3,151,739
17 : 3,154,192
19.5 : 3,125,212
.5 : 3,131,813
.5 : 3,135,378
.5 : 3,163,287
29 : 3,129,809
33 : 3,123,205
37 : 3,151,740
41 : 3,123,206
3,125,213
3,126,092
3,143,206
3,148,768
3,159,272
42 : 3,125,214
3,128,878
3,141,549
3,143,207
3,162,301
43 : 3,149,717
44 : 3,123,207
3,133,632
3,152,687
.12: 3,122,236
45.12: 3,139,979
.13: 3,126,093
.13: 3,132,741
.14: 3,123,208
.14: 3,134,484
.14: 3,136,410
.14: 3,155,232
.14: 3,157,275
.14: 3,158,259
.18: 3,136,411
.18: 3,138,246
.19: 3,116,825
.19: 3,131,807
.19: 3,159,273
.2 : 3,127,010
.2 : 3,127,987
45.2 : 3,127,988
.31: 3,124,241
.31: 3,136,412
.31: 3,137,386
.31: 3,161,288
.32: 3,118,533
.32: 3,131,808
.33: 3,159,274
.34: 3,127,011
.34: 3,131,809
.34: 3,132,742
.34: 3,144,128
46 : Re.25,605
3,116,826
3,119,494
3,121,491
3,124,242
3,129,810
3,129,811
3,131,810
3,133,633
3,136,413
3,136,414
3,138,247
3,138,248
3,144,931
3,145,836
3,145,837
3,149,718
3,155,233
3,156,349
3,156,350
3,156,351
3,157,276
3,158,260
3,158,261
3,162,302
3,162,303
47 : 3,116,827
3,129,812
3,131,811
3,133,634
3,138,249
3,139,180
3,139,980
3,139,981
3,144,932
3,145,838
3,147,856
3,148,769
3,153,480
3,155,234
3,156,352
3,160,270
3,160,271
48 : 3,160,272
49 : 3,144,933
50 : 3,144,934
52 : 3,125,215
3,125,216
3,127,989
3,127,990
3,129,813
3,135,380
3,136,415
3,138,250
3,149,719
3,150,769
3,154,193
3,156,353
3,161,289
53 : 3,119,490
3,124,243
3,141,550
3,156,354
3,161,290
56 : 3,119,491
3,119,495
3,121,492
3,124,244
3,124,245
3,124,246
3,125,217
3,127,012
3,127,991
3,129,814
3,129,815
3,132,743
3,136,416
3,139,982
3,143,208
3,144,129
3,144,935
3,146,881
3,147,857
3,150,770
3,150,771
3,152,690
3,152,691
3,153,479
3,156,355
3,160,273
3,160,274
3,162,304
57 : 3,126,094
3,145,839
3,145,840
3,148,770
3,155,235
3,162,305
58 : 3,156,356
59 : 3,118,534
3,124,558
3,125,218
3,125,219
3,125,220
3,129,816
3,135,381
3,142,377
3,146,882
3,146,883
3,152,692
3,153,481
3,156,357
3,160,275
60 : 3,138,251
3,147,858
3,152,693
62 : 3,119,492
3,123,209
3,138,252
3,147,859
3,147,860
3,159,275
63.2 : 3,123,210
.2 : 3,123,211
.2 : 3,133,635
.2 : 3,136,417
.2 : 3,137,387
.2 : 3,138,253
.2 : 3,146,884
.2 : 3,148,771
.2 : 3,148,772
.2 : 3,152,694
.2 : 3,157,277
.2 : 3,162,306
.3 : 3,127,992
.3 : 3,136,418
.3 : 3,143,209
.3 : 3,147,861
.3 : 3,162,307
.3 : 3,163,288
.4 : 3,123,212
.5 : 3,139,181
64 : 3,133,636
65 : 3,118,535
3,118,536
3,118,537
3,118,538
3,123,213
3,123,214
3,124,247
3,124,248
3,124,249
3,133,637
3,134,485
3,134,486
3,135,382
3,137,388
3,138,254
3,138,255
3,138,256
3,142,378
3,143,210
3,144,130
3,144,131
3,144,936
3,146,885
3,147,862
3,148,773
3,152,688
3,152,695
3,156,358
3,162,308
3,163,289
3,163,290
69 : 3,131,812
72 : 3,116,828
3,145,841
3,149,721
75 : 3,125,221
3,135,383
3,157,278
78 : 3,116,829
3,121,493
3,127,993
3,129,817
3,139,182
3,142,379
3,151,741
3,157,279
3,157,280
79 : 3,116,830
3,136,419
3,161,291
80 : 3,130,833
3,130,834
3,135,384
80 : 3,136,420
3,140,778
3,162,309
83.5 : 3,120,893
.5 : 3,126,095
84 : 3,132,744
3,159,276

Class 207

1 : 3,116,831
3,116,832
3,116,833
3,118,539
3,118,540
3,119,493
3,120,304
3,124,250
3,127,013
3,127,014
3,129,818
3,139,183
3,141,551
3,144,937
3,147,863
3,150,772
3,152,696
3,156,359
3,157,281
2 : 3,136,421
3 : 3,143,211
3,153,482
4 : 3,137,389
3,139,983
6 : 3,126,096
3,138,257
3,142,380
3,150,773
3,160,276
9 : 3,139,984
3,158,262
3,158,263
10 : 3,116,834
3,120,305
3,125,222
3,126,097
3,127,015
3,140,779
3,144,132
3,145,842
3,145,843
3,162,310
16 : 3,131,814
3,155,237
3,157,282
18 : 3,146,886
19 : 3,123,215
3,157,283

Class 208

4 : 3,126,329
3,131,140
6 : 3,152,978
8 : 3,117,921
3,129,164
3,143,489
3,146,183
3,158,561
9 : 3,122,493
10 : 3,152,063
11 : 3,117,072
3,117,922
3,123,546
3,130,142
3,131,141
3,133,010
3,139,397
3,151,054
3,152,979
3,153,625
3,159,562
3,161,581
13 : 3,149,063
15 : 3,126,330
3,132,083
3,135,680
3,150,071
21 : 3,128,241
3,146,184
22 : 3,119,761
3,153,626
25 : 3,117,923
3,125,501
3,132,084
3,133,011
27 : 3,119,762
30 : 3,159,563
32 : 3,142,632
33 : 3,130,143
37 : 3,136,711
39 : 3,135,681
3,151,055
40 : 3,140,248
41 : 3,160,578
44 : 3,130,144
45 : 3,147,205
46 : 3,142,633
3,150,072
48 : 3,132,085
3,146,185
49 : 3,143,490
3,146,186
53 : 3,162,593
56 : 3,147,206
57 : 3,132,086
3,146,187
3,162,594
58 : 3,136,712
3,148,135
3,153,627
59 : 3,118,830
3,125,502
3,139,398
3,159,564
60 : 3,132,087
62 : 3,121,676
3,124,523
63 : 3,122,494
64 : 3,156,640
65 : 3,117,073
3,124,524
3,128,242
3,130,145
3,137,646
3,154,481
67 : 3,132,088
68 : 3,135,682
69 : 3,148,136
73 : 3,146,188
74 : 3,143,491
3,158,562
3,161,582
78 : 3,123,547
3,135,683
3,152,064
3,152,980
3,155,604
79 : 3,125,503
3,150,073
3,155,605
3,159,565
3,159,566
80 : 3,157,589
81 : 3,144,400
82 : 3,133,875
87 : 3,159,567
3,162,595
89 : 3,125,504
3,132,089
3,132,090
3,159,568
3,162,596
95 : 3,117,074
3,133,012
3,142,634
3,151,056
97 : 3,122,495
101 : 3,122,496
3,154,482
106 : 3,130,146
108 : 3,131,142
109 : 3,119,763
110 : 3,120,483
3,159,569
111 : 3,117,075
3,127,339
3,132,091
3,142,635
3,147,207
3,147,208
3,151,057
3,157,590
3,158,563
112 : 3,128,243
3,144,401
3,156,641
113 : 3,136,713
3,150,074
3,151,058
114 : 3,130,147
120 : 3,120,484
3,122,497
3,123,548
3,140,249
3,140,250
3,140,251
3,140,252
3,140,253
3,140,992
3,147,209
3,150,075
3,150,076
3,151,059
3,156,642
3,157,591
3,158,565
122 : 3,158,564

Class 208—Con.

127 : 3,158,566
136 : 3,132,092
140 : 3,117,076
3,134,732
3,144,402
143 : 3,125,505
3,158,567
3,160,579
146 : 3,146,189
157 : 3,152,065
163 : 3,152,066
164 : 3,161,583
165 : 3,149,064
167 : 3,120,485
177 : 3,152,067
178 : 3,121,677
179 : 3,124,525
180 : 3,123,549
3,142,636
189 : 3,120,486
3,130,148
195 : 3,117,077
198 : 3,153,628
203 : 3,155,606
204 : 3,125,506
3,128,244
3,130,149
3,152,068
206 : 3,128,245
3,141,842
3,148,137
3,154,483
3,159,570
207 : 3,144,403
208 : 3,119,764
210 : 3,119,765
3,133,013
3,147,210
212 : 3,121,678
3,155,607
213 : 3,151,060
216 : 3,125,507
3,162,597
226 : 3,136,714
3,160,580
240 : 3,126,331
3,163,593
251 : 3,117,078
3,140,993
3,155,608
3,159,571
254 : 3,123,550
3,140,994
3,145,160
3,162,598
255 : 3,128,246
3,162,599
264 : 3,124,526
3,125,508
3,125,509
3,125,510
3,125,511
3,139,399
3,144,404
3,150,077
3,152,070
3,152,981
3,161,584
3,161,585
3,161,586
3,163,594
265 : RE.25,627
268 : 3,150,078
274 : 3,152,069
275 : 3,145,161
283 : 3,129,165
291 : 3,119,766
310 : 3,150,079
3,160,581
313 : 3,146,190
320 : 3,132,093
321 : 3,119,767
323 : 3,125,512
324 : 3,157,592
326 : 3,120,487
328 : 3,151,061
332 : 3,147,211
341 : 3,117,079
348 : 3,133,014
361 : 3,160,582
365 : 3,121,056

Class 209

1 : 3,117,080
3,133,876
2 : 3,137,647
3 : 3,122,498
3,149,065
3,151,062
3,161,587
5 : 3,138,550
9 : 3,137,648
11 : 3,137,649
3,145,162
12 : 3,117,081
3,137,650
3,145,163
17 : 3,147,212
21 : 3,122,499
29 : 3,123,551
30 : 3,140,254
37 : 3,141,843
39 : 3,133,015
72 : RE.25,541
3,137,390
3,149,720
3,157,284
3,160,277
3,161,292
73 : 3,146,887
3,148,774
3,153,483
3,159,277
74 : 3,127,016
3,140,780
3,145,844
3,156,360
3,156,361
75 : 3,142,382
3,149,722
78 : 3,157,285
79 : 3,120,306
80 : 3,117,669
81 : 3,144,938
82 : 3,133,638
3,136,422
3,138,258
3,142,383
3,148,775
83 : 3,117,670
84 : 3,137,391
85 : 3,143,212
3,150,774
86 : 3,123,216
3,153,484
88 : 3,120,307
3,133,639
3,153,485
90 : 3,116,835
3,156,362
3,159,278
93 : 3,143,213
95 : 3,144,939
103 : 3,151,742
106 : 3,117,671
111.5 : 3,122,237
.5 : 3,123,217
.5 : 3,128,879
.5 : 3,128,880
.5 : 3,131,815
.5 : 3,131,816
.5 : 3,133,640
.5 : 3,133,641
.5 : 3,136,423
.5 : 3,136,424
.5 : 3,137,392
.5 : 3,154,194
.5 : 3,159,279
112 : 3,135,385
3,156,363
114 : 3,149,723
121 : 3,128,881
3,135,386
3,139,184
123 : 3,135,387
124 : 3,150,775
127 : 3,143,492
133 : 3,119,768
140 : 3,163,595
144 : 3,135,684
152 : 3,127,340
166 : 3,117,924
3,122,500
3,129,166
169 : 3,140,255
172.5 : 3,120,488
214 : 3,119,769
218 : 3,124,527
219 : 3,157,593
3,163,596
223 : 3,146,191
3,149,066
3,160,583
233 : 3,121,679
238 : 3,143,493
247 : 3,141,844
3,148,138
251 : 3,143,494
254 : 3,145,164
3,145,165
259 : 3,162,600
269 : 3,135,685
270 : 3,130,150
273 : 3,149,067
3,159,572
274 : 3,158,568
315 : 3,129,167
326 : 3,123,552
332 : 3,150,080
3,158,569
352 : 3,156,643
366.5 : 3,160,584
374 : 3,153,629
379 : 3,129,168
393 : 3,134,733
403 : 3,139,400
408 : 3,126,332
440 : 3,143,495

Class 210

1 : 3,147,213
3 : 3,133,016
3,155,609
5 : 3,133,017
7 : 3,135,686
3,151,063
3,152,982
11 : 3,152,983
15 : 3,119,770
3,126,333
16 : 3,145,166
19 : 3,124,528
20 : 3,152,071
21 : 3,133,018
3,148,139
3,148,140
22 : 3,131,143
3,148,141
23 : 3,132,094
3,132,095
3,140,256
24 : 3,147,214
3,147,215
3,152,984
26 : 3,160,585
30 : 3,123,553
3,139,401
3,163,597
31 : 3,149,068
32 : 3,129,169
3,156,644
33 : 3,130,151
3,137,651
3,152,072
35 : 3,154,484
37 : 3,128,247
38 : 3,118,831
39 : 3,124,529
40 : 3,146,192
3,147,216
3,152,985
41 : 3,145,167
44 : 3,121,680
3,128,248
3,147,217
3,158,570
3,160,586
47 : 3,135,687
3,163,598
3,163,599
50 : 3,139,402
51 : 3,136,715
3,140,257
52 : 3,142,637
3,142,638
3,157,594
53 : 3,128,249
54 : 3,118,832
3,129,170
3,131,144
3,146,193
3,147,218
3,148,142
3,157,595
57 : 3,130,152
58 : 3,130,153
3,150,081
59 : 3,119,771
3,132,096
60 : 3,119,772
3,123,554
3,126,334
3,142,639
3,148,143
3,155,610
62 : 3,133,877
3,136,716
3,147,219
3,152,073
63 : 3,151,064
64 : 3,161,588
65 : 3,143,496
67 : 3,143,497
3,152,986
70 : 3,120,489
73 : 3,152,074
75 : 3,138,551
86 : 3,155,611
90 : 3,157,596
91 : 3,149,069
94 : 3,122,501
95 : 3,136,717
96 : 3,117,925
3,159,573
98 : 3,138,552
104 : 3,121,681
3,130,154
108 : 3,129,171
3,151,065
109 : 3,143,498
112 : 3,140,258
116 : 3,160,587
117 : 3,144,405
120 : 3,156,645
124 : 3,123,555
126 : 3,126,335
128 : 3,154,485
130 : 3,132,097
3,146,194
3,161,589
132 : 3,120,490
134 : 3,130,155
3,138,553
136 : 3,142,640
3,154,486
137 : 3,157,597
144 : 3,117,926
3,119,773
3,135,688
3,142,641
3,148,144
3,151,066
3,151,067
146 : 3,136,718
3,163,600
151 : 3,118,833
3,123,556
152 : 3,130,156
156 : 3,151,068
159 : 3,144,406
3,152,075
166 : 3,121,682
169 : 3,119,774
3,125,513
3,129,172
3,143,499
3,145,168
3,146,195
3,149,070
3,151,069
3,152,076
3,152,987
190 : 3,136,719
3,143,500
3,151,070
195 : 3,118,834
3,131,145
3,140,259
3,156,646
196 : 3,163,601
197 : 3,149,071
209 : 3,156,647
3,156,648
220 : 3,133,878
221 : 3,117,082
3,118,835
3,161,590
222 : 3,136,720
3,139,403
223 : 3,121,683
225 : 3,117,083
230 : 3,153,630
232 : 3,118,836
3,118,837
3,139,404
3,142,642
3,145,169
3,145,170
3,149,072
3,151,071
3,155,613
233 : 3,152,077
237 : 3,121,684
3,141,845
3,159,574
241 : 3,117,084
242 : 3,120,491
251 : 3,161,591
257 : 3,134,734
264 : 3,134,735
291 : 3,155,612
297 : 3,152,078
307 : 3,144,407
314 : 3,158,571
315 : 3,147,220
322 : 3,144,408
323 : 3,154,487
326 : 3,117,927
327 : 3,157,598
331 : 3,137,652
3,161,592
365 : 3,132,098
365 : 3,135,689
369 : 3,126,336
370 : 3,133,879
376 : 3,136,721
3,136,722
380 : 3,143,501
3,146,196
3,151,072
382 : 3,123,557
389 : 3,123,558
3,124,530
3,135,690
391 : 3,144,409
393 : 3,138,554
3,140,995
395 : 3,150,082
396 : 3,125,514
401 : 3,120,492
3,143,502
404 : 3,150,083
406 : 3,145,171
446 : 3,121,685
452 : 3,155,614
457 : 3,160,588
461 : 3,143,503
469 : 3,150,084
486 : 3,152,988
493 : 3,125,515
3,127,341
3,146,197
500 : 3,154,488
507 : 3,132,099
512 : 3,129,173
3,130,157
3,136,723
519 : 3,136,724
3,147,221
528 : 3,140,996

Class 211

1 : 3,136,425
3,144,940
3,150,776
.5 : 3,144,133
.5 : 3,157,286
.5 : 3,163,291
10 : 3,135,388
3,144,941
3,159,280
11 : 3,144,942
13 : 3,118,541
3,127,017
3,128,882
3,138,259
3,140,781
3,148,776
3,151,743
14 : 3,139,185
18 : 3,138,260
21 : 3,116,836
24 : 3,147,864
26 : 3,143,214
32 : 3,130,835
33 : 3,161,293
34 : 3,162,311
37 : 3,135,389
40 : 3,144,943
41 : 3,124,251
3,126,098
3,138,261
3,141,552
3,141,553
3,161,294
42 : 3,149,724
3,150,777
43 : 3,120,894
3,121,494
3,124,252
3,138,262
3,142,384
3,146,888
44 : 3,145,845
3,149,725
45 : 3,159,281
46 : 3,125,223
47 : 3,126,099
49 : 3,123,218
3,145,846
3,150,778
3,151,744
3,152,697
3,157,287
3,161,295
3,163,292
50 : 3,129,819
51 : 3,123,219
3,163,293
55 : 3,139,186
58 : 3,163,294
59 : 3,127,018
3,139,985
3,139,986
3,162,312
60 : 3,135,390
3,138,263
3,139,187
3,140,782
3,154,195
3,155,238
3,161,296
3,162,313
3,161,495
62 : 3,136,426
65 : 3,156,364
68 : 3,146,889
69 : 3,148,777
71 : 3,145,847
3,154,196
74 : 3,120,308
3,130,836
3,142,385
3,160,278
78 : 3,134,487
83 : 3,130,837
85 : 3,135,391
86 : 3,133,642
3,135,392
3,146,890
3,147,865
3,160,279
3,163,295
87 : 3,117,672
3,161,297
88 : 3,123,220
3,145,848
89 : 3,118,542
3,160,280
90 : 3,118,543
94 : 3,116,837
3,124,253
99 : 3,117,673
102 : 3,118,544
103 : 3,120,895
104 : 3,161,298
105.1 : 3,119,496
.1 : 3,137,393
.1 : 3,143,215
.1 : 3,145,849
106 : 3,125,224
113 : 3,130,838
3,131,817
116 : 3,133,643
117 : 3,118,545
3,129,820
119.1 : 3,132,745
.13: 3,127,019
120 : 3,135,393
122 : 3,139,191
123 : 3,120,309
124 : 3,162,314
126 : 3,121,496
3,122,238
3,125,225
3,126,100
3,139,188
3,141,554
3,144,134
3,145,850
3,146,891
3,147,866
3,152,698
3,154,197
3,163,296
131 : 3,139,189
3,158,264
132 : 3,124,254
134 : 3,132,746
3,149,726
135 : 3,139,192
3,141,555
144 : 3,127,994
148 : 3,127,020
3,127,995
3,142,386
3,144,944
3,145,851
3,147,727
3,151,745
153 : 3,133,644
162 : 3,141,556
168 : 3,117,674
169 : 3,149,728
175 : 3,127,021
176 : 3,126,101
3,126,102
3,144,945
177 : 3,123,221
3,132,747
3,141,557
3,158,265
178 : 3,119,497
3,121,497
3,139,190
3,146,892
3,163,297
179 : 3,133,645
182 : 3,119,498
3,139,987
3,144,946
184 : 3,127,022
3,149,729
3,160,282
3,160,283

Class 212

8 : 3,146,893
3,158,266
11 : 3,119,499
18 : 3,142,387
35 : 3,144,135
3,154,198
3,154,199
38 : 3,120,896
3,123,222
3,125,226
39 : 3,139,988
42 : 3,157,288
.5 : 3,120,310
46 : 3,134,488
3,161,299
49 : 3,160,284
3,163,298
55 : 3,129,821
3,158,267
57 : 3,127,996
59 : 3,123,223
3,149,730
61 : 3,143,216
66 : 3,144,136
68 : 3,128,883
69 : 3,131,818
70 : 3,148,778
94 : 3,116,838
128 : 3,123,224
3,144,137
144 : 3,125,227
145 : 3,144,138

Class 213

1 : 3,157,289
8 : 3,119,500
3,123,225
3,150,779
3,152,699
3,163,299
3,163,300
3,163,301
9 : 3,149,731
19 : 3,123,226
20 : 3,120,311
21 : 3,159,282
3,159,283
22 : 3,159,284
23 : 3,150,781
30 : 3,138,264
32 : 3,132,748
3,146,894
3,150,780
43 : 3,117,675
3,128,884
3,128,885
3,135,394
3,139,193
3,150,782
3,150,783
3,160,285
51 : 3,136,427
62 : 3,157,290
3,157,291
75 : 3,140,783
3,140,784
3,160,286
87 : 3,123,227
100 : 3,123,228
3,128,886
103 : 3,127,023
112 : 3,145,852
144 : 3,146,895
145 : 3,155,239
152 : 3,121,498
154 : 3,133,646
166 : 3,127,997
168 : 3,159,285
211 : 3,117,676
3,132,749
3,134,489
212 : 3,133,647
219 : 3,117,677
3,117,678
3,117,679
223 : 3,139,989

Class 214

1 : 3,116,839
3,117,680
3,118,546
3,118,547

1 : 3,118,548
3,121,499
3,122,239
3,123,229
3,123,230
3,124,255
3,124,256
3,124,257
3,125,228
3,126,103
3,127,024
3,127,025
3,127,026
3,127,027
3,128,887
3,128,888
3,129,822
3,129,823
3,132,750
3,133,648
3,133,649
3,135,395
3,135,396
3,135,397
3,135,398
3,136,428
3,136,429
3,137,394
3,138,265
3,139,194
3,139,195
3,139,990
3,139,991
3,141,558
3,141,559
3,143,217
3,143,218
3,143,219
3,144,139
3,144,140
3,144,947
3,147,867
3,148,779
3,150,784
3,150,785
3,151,747
3,155,240
3,155,241
3,157,292
3,157,293
3,158,268
3,158,269
3,160,287
3,160,288
3,160,289
3,160,290
3,160,291
3,161,300
.1 : 3,162,315
.4 : 3,155,242
.6 : 3,137,395
2 : 3,162,316
.5 : 3,123,231
.5 : 3,143,220
.5 : 3,143,221
.5 : 3,159,286
3 : 3,116,840
3,139,992
3,154,200
3,161,301
5.5 : 3,127,028
.5 : 3,132,751
.5 : 3,133,650
.5 : 3,137,396
.5 : 3,146,896
.5 : 3,151,748
6 : 3,120,312
3,122,240
3,122,241
3,122,242
3,123,232
3,126,104
3,126,105
3,126,106
3,128,889
3,128,890
3,129,824
3,129,825
3,129,826
3,130,839
3,131,819
3,137,286
3,139,196
3,142,388
3,142,389
3,143,222
3,148,780
3,148,781
3,149,732
3,150,786
3,152,700
3,154,201
3,155,243
3,156,365

6 : 3,157,294
3,157,295
3,158,270
3,159,287
3,160,292
3,161,302
3,163,302
3,163,303
.5 : 3,143,223
7 : 3,126,107
3,134,490
3,152,701
3,160,293
8.5 : 3,125,229
.5 : 3,126,108
.5 : 3,127,029
.5 : 3,139,993
.5 : 3,146,897
.5 : 3,148,782
.5 : 3,155,244
10.5 : 3,144,141
.5 : 3,145,853
11 : 3,125,230
3,127,030
3,136,430
3,144,948
3,148,783
3,158,271
12 : 3,139,197
14 : 3,145,854
3,146,898
15 : 3,130,840
3,143,224
3,143,225
3,144,142
3,148,784
3,149,733
16 : 3,118,549
3,127,031
3,153,487
3,155,245
3,160,294
.1 : 3,124,258
.1 : 3,127,998
.1 : 3,131,820
.1 : 3,132,752
.1 : 3,135,399
.1 : 3,136,431
.1 : 3,148,785
.1 : 3,153,488
.1 : 3,156,366
.1 : 3,161,303
.4 : 3,119,501
.4 : 3,129,827
.4 : 3,132,753
.4 : 3,138,266
.4 : 3,139,994
.4 : 3,155,246
.4 : 3,157,296
.6 : 3,160,295
17 : 3,117,681
3,121,500
3,121,501
3,123,233
3,123,234
3,123,235
3,125,231
3,125,232
3,127,032
3,129,828
3,134,491
3,138,267
3,138,268
3,139,995
3,139,996
3,142,390
3,144,143
3,144,144
3,145,855
3,146,899
3,151,749
3,151,750
3,152,702
3,154,202
3,155,247
3,157,297
3,158,272
3,159,288
3,159,289
3,161,304
18 : 3,117,682
3,122,243
3,127,033
3,127,034
3,129,829
3,137,397
3,137,398
3,142,391
3,143,226
3,146,900
3,146,901
3,149,734
3,160,296
.2 : 3,159,290

19 : 3,128,891
23 : 3,127,035
26 : 3,157,298
3,159,291
28 : 3,130,841
3,136,432
31 : 3,116,841
35 : 3,131,821
3,137,399
36 : 3,144,145
37 : 3,116,842
3,152,703
38 : 3,122,244
3,136,433
3,147,868
3,151,751
3,154,203
3,155,248
41 : 3,135,400
3,142,392
42 : 3,126,109
3,132,754
3,139,997
44 : 3,157,299
46 : 3,145,856
49 : 3,118,550
55 : 3,116,843
64 : 3,157,300
.2 : 3,128,892
75 : 3,138,269
77 : 3,118,551
3,126,110
3,133,651
3,138,270
3,139,198
82 : 3,137,400
3,139,998
3,148,786
3,161,305
83.1 : 3,127,036
.1 : 3,159,292
.24: 3,132,755
.3 : Re.25,577
.3 : 3,133,652
.3 : 3,139,999
.36: 3,142,393
84 : 3,117,683
3,122,245
3,124,259
3,129,830
3,130,842
3,155,249
3,160,297
85 : 3,116,844
3,135,401
3,138,271
3,138,272
3,142,394
3,147,869
3,153,489
.5 : 3,149,735
86 : 3,127,037
3,137,401
3,145,857
3,152,704
3,154,204
3,154,205
89 : 3,117,684
3,141,560
3,149,736
3,152,705
3,153,486
90 : 3,127,038
95 : 3,124,260
100 : 3,136,434
130 : 3,123,236
3,124,261
3,138,273
3,151,752
131 : 3,120,313
3,121,502
3,136,435
132 : 3,132,756
135 : 3,144,146
3,160,298
137 : 3,129,831
138 : Re.25,538
3,117,685
3,117,686
3,120,315
3,120,897
3,121,503
3,129,832
3,131,822
3,134,492
3,139,199
3,139,200
3,140,000
3,140,785
3,141,561
3,142,395
3,143,227
3,148,788
3,149,737

138 : 3,155,250
140 : 3,120,314
3,122,246
3,122,247
3,127,999
3,131,823
3,133,653
3,134,493
3,135,402
3,138,274
3,139,201
3,140,001
3,141,562
3,141,563
3,144,147
3,148,789
3,148,790
3,148,791
3,148,792
3,155,251
3,155,252
3,155,253
3,156,367
3,158,273
3,160,299
3,161,306
3,161,307
3,163,304
141 : Re.25,664
3,135,403
142 : 3,135,404
144 : 3,155,254
145 : 3,116,845
3,130,843
146 : 3,122,248
3,132,757
.5 : 3,139,202
147 : 3,140,002
3,140,786
3,143,228
3,143,229
3,148,787
3,152,706
3,156,368
3,161,308
152 : 3,125,233
3,130,844
3,142,396
3,151,753
302 : 3,122,249
3,122,250
3,130,845
3,130,846
3,135,405
3,136,436
3,138,275
3,140,787
3,140,788
3,142,397
3,143,230
3,147,870
3,148,793
303 : 3,152,707
304 : 3,144,148
305 : 3,143,231
3,145,858
307 : 3,136,437
3,146,902
310 : 3,117,687
3,142,398
3,143,232
3,151,754
313 : 3,121,504
3,127,039
314 : 3,137,402
317 : 3,129,833
330 : 3,154,206
331 : 3,123,237
3,145,859
332 : 3,123,238
333 : 3,159,293
334 : 3,126,111
3,145,860
338 : 3,144,949
339 : 3,135,406
340 : 3,145,861
3,145,862
3,163,305
355 : 3,123,239
370 : Re.25,691
3,155,255
371 : 3,155,256
375 : 3,152,708
379 : 3,141,564
390 : 3,145,863
392 : 3,161,309
394 : 3,120,316
3,146,903
3,148,794
3,158,274
396 : 3,145,864
450 : 3,128,893
3,139,203
3,141,565

450 : 3,155,257
500 : 3,118,552
501 : 3,118,553
3,127,040
3,133,654
3,154,207
505 : 3,119,502
3,127,041
3,127,042
3,130,847
3,138,276
3,140,003
3,144,149
3,144,150
3,159,294
506 : 3,147,871
3,149,738
508 : 3,125,234
509 : 3,122,251
3,128,894
512 : 3,119,503
3,120,317
3,124,262
3,125,235
3,126,112
3,145,865
514 : 3,142,399
3,150,787
3,157,301
515 : 3,135,407
3,148,795
3,152,709
3,155,258
3,163,306
517 : 3,149,739
3,159,295
519 : 3,126,113
3,159,296
523 : 3,132,758
620 : 3,125,236
623 : 3,160,300
624 : 3,126,114
650 : 3,139,204
651 : Re.25,519
3,118,554
3,118,555
652 : 3,133,655
3,143,233
3,147,872
653 : Re.25,548
3,145,866
654 : 3,120,898
3,124,263
655 : 3,158,275
656 : 3,126,115
658 : 3,119,505
670 : 3,119,506
3,151,755
709 : 3,123,240
730 : 3,142,400
3,154,208
731 : 3,162,317
750 : 3,122,252

Class 215

1 : 3,140,004
3,152,710
3,161,310
6 : 3,144,151
3,144,152
3,156,369
9 : 3,120,318
3,124,264
3,129,834
3,130,848
3,138,277
3,147,873
3,151,756
3,155,259
3,157,302
3,160,301
11 : 3,126,116
3,134,494
3,134,495
3,138,278
3,140,789
3,145,867
3,146,904
3,157,303
3,159,297
3,161,311
3,162,318
12 : 3,128,895
3,136,438
13 : 3,120,319
3,132,759
3,144,153
3,155,260
3,163,307
25 : 3,150,788
32 : 3,138,279
37 : 3,126,117
38 : 3,121,505

38 : 3,152,711
3,155,261
3,160,302
39 : 3,122,253
3,122,254
3,123,241
3,135,408
3,136,439
3,147,874
3,147,875
40 : 3,122,255
3,133,656
3,134,496
3,142,401
3,143,234
3,143,235
3,158,276
3,158,277
41 : 3,116,846
3,131,824
3,142,402
3,142,403
3,151,757
3,157,304
3,160,303
42 : 3,158,278
43 : 3,122,256
3,125,237
3,145,868
3,159,298
44 : 3,150,789
45 : 3,125,238
3,151,758
46 : 3,118,556
3,120,899
3,120,900
3,121,506
3,137,403
3,142,404
3,145,869
3,155,262
3,161,312
3,163,308
3,163,309
3,163,310
47 : 3,118,557
3,136,440
3,153,490
48 : 3,128,896
51 : 3,135,409
55 : 3,135,410
56 : 3,129,835
3,144,154
3,147,876
60 : 3,135,411
64 : 3,161,313
73 : 3,135,412
74 : 3,162,319
75 : 3,152,712
78 : 3,128,000
79 : 3,130,849
83 : 3,163,311
89 : 3,132,760
98 : 3,133,657
100 : 3,122,257
3,144,950
3,155,263
3,160,304

Class 217

3 : 3,134,497
3,140,790
7 : 3,117,688
3,126,118
3,140,791
12 : 3,116,847
3,143,236
15 : 3,156,370
21 : 3,154,209
26.5 : 3,120,901
.5 : 3,143,237
.5 : 3,163,312
40 : 3,144,155
43 : 3,159,299
47 : 3,139,205
56 : 3,137,404
57 : 3,127,043
3,141,566
60 : 3,117,689
65 : 3,144,951
3,159,300
69 : 3,144,156

Class 218

1 : 3,127,044
2 : 3,117,690
3,150,790
25 : 3,144,157
42 : 3,116,848
3,127,045
3,154,210
3,157,305

43 : 3,119,507
3,144,158

Class 219

8.5 : 3,122,624
.5 : 3,124,672
.5 : 3,148,262
9.5 : 3,133,178
.5 : 3,140,378
.5 : 3,153,716
.5 : 3,156,807
10.43: 3,122,625
.43: 3,149,216
.49: 3,123,699
.49: 3,125,655
.49: 3,143,628
.49: 3,154,663
.55: 3,127,494
.55: 3,127,495
.55: 3,129,312
.55: 3,147,360
.55: 3,151,230
.61: 3,117,209
.61: 3,133,185
.67: 3,121,779
.67: 3,125,656
.67: 3,134,882
.69: 3,133,179
.69: 3,149,217
.71: 3,127,496
.75: 3,118,040
.75: 3,118,999
.75: 3,120,596
.75: 3,153,132
.75: 3,153,717
.77: 3,129,313
.77: 3,136,876
.79: 3,119,917
.79: 3,121,780
19 : 3,117,210
3,117,211
3,118,041
3,118,042
3,119,000
3,119,001
3,119,918
3,119,919
3,119,920
3,119,921
3,120,597
3,121,153
3,121,154
3,121,155
3,123,700
3,123,701
3,125,657
3,125,658
3,127,497
3,129,314
3,129,315
3,129,316
3,131,278
3,134,005
20 : 3,117,212
3,118,043
3,118,044
3,122,626
3,125,659
3,127,498
3,128,362
3,131,279
3,132,228
3,132,229
3,134,006
21 : 3,119,922
3,120,598
3,121,156
26 : 3,121,781
3,130,286
32 : 3,119,002
3,125,660
3,125,661
3,125,662
34 : 3,119,923
3,119,924
3,120,599
3,126,468
3,132,230
35 : 3,121,158
3,122,627
3,127,499
3,128,363
3,129,317
3,131,280
3,132,231
3,133,180
36 : 3,117,213
37 : 3,119,003
3,121,782
3,124,673
3,133,181
3,134,007
38 : 3,119,004

Class 219—Con.

38 : 3,120,600
3,126,469
3,126,470
3,133,182
3,134,008
39 : 3,130,287
3,131,281
3,132,232
40 : 3,119,925
3,121,157
41 : 3,121,783
43 : 3,129,318
3,130,288
46 : 3,119,926
3,125,663
3,130,289
50 : 3,137,781
51 : 3,131,282
52 : 3,134,009
56 : 3,139,504
59 : 3,118,045
3,127,500
3,133,183
3,145,285
60 : 3,126,471
3,131,283
3,135,850
3,158,727
61 : 3,131,284
3,137,782
62 : 3,146,331
63 : 3,130,290
3,130,291
3,132,233
3,135,851
3,146,332
64 : 3,117,214
3,150,249
65 : 3,153,718
67 : 3,131,285
3,132,234
69 : 3,120,601
3,122,628
3,125,664
3,125,665
3,128,364
3,134,010
3,134,011
3,134,892
3,135,852
3,138,690
3,138,691
3,140,379
3,144,540
3,144,541
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553 : 3,152,246

Class 220

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.5 : 3,128,897
.5 : 3,133,658
.5 : 3,140,005
2.1 : 3,130,854
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3 : 3,123,242
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.4 : 3,123,244
.6 : 3,127,047
.8 : 3,134,498
.8 : 3,136,442
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.94: 3,151,759
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14 : 3,118,560
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19 : 3,133,660
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.5 : 3,152,714
21 : 3,129,838
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39 : 3,119,513
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63 : 3,123,248
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65 : 3,127,052
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67 : 3,142,413
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69 : 3,143,242
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71 : 3,143,244
72 : 3,120,322
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77 : 3,151,767
83 : 3,135,421
85 : 3,123,249
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86 : 3,131,828
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88 : 3,133,667
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93 : 3,129,842
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95 : 3,128,905
97 : 3,118,563
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105 : 3,116,851
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114 : 3,156,377
115 : 3,157,309
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3,163,322

Class 221

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2 : 3,140,009
4 : 3,120,324
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7 : 3,144,958
9 : 3,130,863
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10 : 3,138,286
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11 : 3,144,168
13 : 3,122,268
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14 : 3,133,671
15 : 3,122,269
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23 : 3,117,694
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25 : 3,127,054
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26 : 3,133,672
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34 : 3,141,569
36 : 3,124,268
41 : 3,126,122

47 : 3,119,516
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48 : 3,144,961
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63 : 3,155,273
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69 : 3,137,410
70 : 3,128,012
73 : 3,140,010
74 : 3,134,502
75 : 3,126,123
77 : 3,139,214
78 : 3,130,859
79 : 3,156,376
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92 : 3,118,565
93 : 3,132,765
94 : 3,118,566
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96 : 3,119,518
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104 : 3,141,570
105 : 3,128,908
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114 : 3,125,245
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168 : 3,135,423
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Class 222

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3,143,250
3,144,175
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3,156,382
3,162,329
183 : 3,116,854
3,118,572
3,124,276
3,128,916
3,135,431
3,137,415
3,154,221
3,157,317
3,159,314
3,160,326
3,161,326
3,162,330
184 : 3,145,879
3,162,331
185 : 3,117,697
3,117,698
3,123,257
3,124,277
3,125,254
3,126,131
3,133,677
3,135,432
3,138,296
3,138,297
3,151,780
189 : 3,125,255
3,134,512
3,138,298
3,146,917
3,149,758
3,151,781
3,155,287
3,160,327
190 : 3,127,066
3,128,917
192 : 3,139,220
3,140,015
193 : 3,127,067
3,134,513
3,149,759
3,152,733
3,157,318
3,162,332
195 : 3,125,256
3,142,418
3,144,176
3,147,892
196 : 3,124,278
3,140,016
3,160,328
.4 : 3,145,880
197 : 3,140,017
199 : 3,146,918
202 : 3,151,782
204 : 3,133,678
204 : 3,160,329
3,161,327
205 : 3,128,918
3,133,679
207 : 3,116,855
3,128,919
3,130,877
3,134,514
3,138,299
3,141,579
3,156,384
.5 : 3,120,330
.5 : 3,140,802
.5 : 3,145,884
.5 : 3,158,296
209 : 3,127,068
3,143,251
3,160,330
211 : 3,134,515
3,152,734
212 : 3,118,573
3,120,327
3,128,016
3,146,919
3,162,335
213 : 3,141,580
3,154,222
215 : 3,123,258
3,128,920
226 : 3,145,881
227 : 3,135,433
3,136,454
3,145,882
3,155,288
3,158,294
228 : 3,138,300
236 : 3,142,419
238 : 3,127,069
3,128,921
3,149,760
243 : 3,128,017
246 : 3,121,514
251 : 3,157,320
252 : 3,159,315
253 : 3,155,289
255 : 3,125,257
3,139,221
256 : 3,154,217
262 : 3,156,385
268 : 3,163,333
270 : 3,118,574
283 : 3,140,018
3,141,581
284 : 3,141,582
305 : 3,122,278
306 : 3,135,434
3,145,883
3,147,893
308 : 3,122,279
309 : 3,122,280
3,122,281
3,141,583
3,141,584
3,143,252
3,144,177
3,150,802
3,160,331
3,162,336
310 : 3,127,070
311 : 3,161,328
317 : 3,121,515
3,134,516
318 : 3,119,531
3,130,878
3,153,495
3,160,332
319 : 3,134,517
3,136,455
321 : 3,120,328
3,120,906
3,120,907
3,128,018
3,146,920
3,159,316
3,161,329
323 : 3,135,435
326 : 3,121,516
327 : 3,136,456
3,144,178
3,162,337
328 : 3,135,436
3,139,222
333 : 3,158,295
335 : 3,138,301
3,142,420
3,151,783
339 : 3,129,853
341 : 3,159,317
349 : 3,118,575
355 : 3,126,132
361 : 3,146,921
368 : 3,122,282
3,130,879
3,151,784
371 : 3,122,283
372 : 3,156,386
373 : 3,120,329
376 : 3,132,773
380 : 3,127,071
3,138,302
3,140,801
3,144,968
383 : 3,129,854
384 : 3,148,805
386 : 3,153,496
3,156,385
3,157,319
3,162,333
3,162,334
3,165,296
389 : 3,117,699
3,128,922
3,138,303
390 : 3,128,923
3,156,387
391 : 3,140,803
394 : 3,116,856
3,117,700
3,121,517
3,123,260
3,123,261
3,127,072
3,128,924
3,129,855
3,130,880
3,132,774
3,133,680
3,134,518
3,135,437
3,137,416
3,137,417
3,138,304
3,139,223
3,143,254
3,144,179
3,146,922
3,148,806
3,149,761
3,150,803
3,153,497
3,154,223
3,154,224
3,155,290
3,155,291
3,157,321
3,158,297
3,158,298
3,159,318
3,159,319
3,161,330
3,161,331
396 : 3,128,019
3,143,253
397 : 3,134,519
3,155,292
399 : 3,122,284
3,129,856
3,131,834
3,134,520
400.7 : 3,127,073
.7 : 3,135,438
.8 : 3,129,857
402 : 3,121,518
412 : 3,163,334
434 : 3,141,585
439 : 3,129,858
442 : 3,128,925
443 : 3,134,521
453 : 3,132,775
455 : 3,145,885
3,152,735
3,163,335
456 : 3,129,859
3,137,418
464 : 3,122,285
3,135,439
3,146,923
466 : 3,142,421
468 : 3,159,320
470 : 3,130,881
471 : 3,124,279
476 : 3,136,457
3,141,586
478 : 3,149,762
3,151,785
3,155,293
479 : 3,139,224
3,143,255
480 : 3,125,258
3,140,019
3,140,804
3,143,256
3,144,180
3,144,181
482 : 3,132,776
484 : 3,162,338
485 : 3,122,286
3,154,225
498 : 3,136,458
502 : 3,151,786
503 : 3,146,924
504 : 3,135,440
505 : 3,126,133
3,163,336
506 : 3,153,498
507 : 3,123,262
3,131,835
508 : 3,119,532
509 : 3,118,576
511 : 3,118,577
3,120,908
3,145,886
512 : 3,129,860
517 : Re.25,703
3,140,020
3,157,322
518 : 3,151,787
519 : 3,121,519
520 : 3,157,323
521 : 3,123,259
3,131,836
3,155,294
522 : 3,120,909
525 : 3,120,910
3,155,295
527 : 3,137,419
528 : 3,154,226
530 : 3,160,333
534 : 3,163,337
539 : 3,134,522
541 : 3,124,280
3,125,259
3,135,441
3,149,763
3,162,339
542 : 3,120,911
3,122,287
3,124,281
3,154,227
543 : 3,117,701
3,117,702
545 : 3,116,857
3,122,288
3,132,777
546 : 3,117,703
547 : 3,143,257
548 : 3,118,578
3,125,260
556 : 3,160,334
559 : 3,162,340
566 : 3,122,289
3,142,422
567 : 3,120,912
569 : 3,124,282
570 : 3,159,321
571 : 3,145,887
572 : 3,134,523

Class 223

1 : 3,135,442
3,137,420
28 : 3,122,290
30 : 3,135,443
32 : 3,128,020
3,154,228
34 : 3,133,681
37 : 3,122,291
3,131,837
3,131,838
3,144,182
3,148,807
3,161,333
38 : 3,152,736
39 : 3,125,261
43 : 3,126,134
3,131,839
3,143,258
46 : 3,129,861
3,136,459
3,139,225
3,143,259
3,147,894
49 : 3,150,804
51 : 3,124,283
3,147,895
63 : 3,127,074
66 : 3,132,778
3,135,444
68 : 3,116,858
3,134,524
3,140,021
3,140,022
3,140,023
70 : 3,118,579
71 : 3,116,859
3,143,260
73 : 3,117,704
3,160,335
74 : 3,144,969
75 : 3,141,587
76 : 3,121,520
3,131,840
3,142,423

Class 223—Con.

78 : 3,133,682
83 : 3,126,135
85 : 3,116,860
86 : 3,148,808
87 : 3,123,263
3,145,888
3,148,809
3,162,341
88 : 3,151,788
3,153,499
3,157,324
3,162,342
91 : 3,120,331
3,138,305
3,143,261
3,157,325
93 : 3,140,024
95 : 3,117,705
96 : 3,152,737
98 : 3,117,706
3,120,913
3,124,284
3,155,296
101 : 3,117,707
102 : 3,154,229
106 : 3,151,789
107 : 3,130,882
111 : 3,161,332

Class 224

1 : 3,155,297
2 : 3,117,708
3,118,580
3,126,136
3,127,075
3,128,926
3,138,306
3,143,262
4 : 3,148,810
5 : 3,120,332
3,129,862
3,129,863
3,130,883
3,131,841
3,132,779
3,136,460
3,143,263
3,146,925
3,148,811
3,148,812
3,151,790
3,152,738
3,155,298
3,156,388
6 : 3,158,300
3,162,343
7 : 3,124,285
3,126,137
3,137,421
3,160,336
3,161,334
19 : 3,127,076
22 : 3,153,500
25 : 3,158,299
26 : 3,127,077
3,147,896
28 : 3,124,286
3,157,326
29 : 3,119,533
3,124,287
3,128,021
3,131,842
30 : 3,157,327
32 : 3,142,424
36 : 3,140,025
42.01 : 3,163,338
.03 : 3,163,339
.07 : 3,144,183
.07 : 3,158,301
.1 : 3,116,861
.1 : 3,120,914
.1 : 3,132,780
.1 : 3,137,422
.1 : 3,138,307
.1 : 3,141,588
.1 : 3,143,264
.1 : 3,145,889
.1 : 3,153,501
.1 : 3,155,299
.33 : 3,132,781
.42 : 3,136,461
.43 : 3,158,302
45 : 3,123,264
3,128,022
3,135,445
3,137,423
3,151,791
3,151,792
46 : 3,143,265
3,156,389
48 : 3,142,425
48 : 3,162,344
52 : 3,143,266

Class 225

1 : 3,120,915
3,150,805
2 : 3,116,862
3,116,863
3,122,292
3,138,308
3,141,589
3,150,806
3,154,230
3,155,300
3,156,390
3,157,328
6 : 3,141,590
3,163,340
12 : 3,141,591
16 : 3,145,890
3,148,813
19 : 3,116,864
3,123,265
3,128,023
23 : 3,132,782
24 : 3,136,462
3,147,897
25 : 3,132,783
26 : 3,144,184
32 : 3,125,262
3,160,337
33 : 3,127,078
34 : 3,156,391
37 : 3,132,784
38 : 3,128,927
3,156,392
39 : 3,118,581
3,144,970
42 : 3,151,793
43 : 3,128,024
3,142,426
46 : 3,152,739
47 : 3,134,525
3,150,807
48 : 3,123,266
3,128,025
3,137,424
49 : 3,159,323
51 : 3,125,263
56 : 3,134,526
3,144,185
3,159,322
57 : 3,149,764
59 : 3,138,309
62 : 3,133,683
65 : 3,138,310
66 : 3,140,805
3,155,301
3,158,303
67 : 3,154,231
74 : 3,158,304
77 : 3,154,232
78 : 3,125,264
89 : 3,156,393
91 : 3,129,864
93 : 3,122,293
3,130,884
3,137,425
3,157,329
3,160,338
.5 : 3,144,186
94 : 3,156,394
96.5 : 3,146,926
.5 : 3,151,794
.5 : 3,160,339
97 : 3,130,885
3,149,765
98 : 3,141,592
100 : 3,128,928
3,135,446
3,140,026
3,146,927
3,161,335
3,163,341
101 : 3,133,684
103 : 3,124,288
3,128,929
3,129,865
3,130,886
3,140,806
104 : 3,142,427
106 : 3,150,808
3,161,336

Class 226

1 : 3,119,534
3,124,289
3,125,265
3,131,843
3,150,809
2 : 3,148,814
3 : 3,155,302
7 : 3,156,395
9 : 3,154,233
10 : 3,137,426
11 : 3,123,267
3,128,026
3,152,740
13 : 3,137,427
17 : 3,147,898
3,156,396
21 : 3,145,891
23 : 3,119,535
24 : 3,136,463
34 : 3,158,305
42 : 3,135,447
3,156,397
43 : 3,125,266
46 : 3,140,027
50 : 3,122,294
3,122,295
3,148,815
53 : 3,160,340
57 : 3,128,027
3,138,311
58 : 3,159,324
59 : 3,140,028
64 : 3,154,234
65 : 3,152,741
74 : 3,152,742
3,154,235
3,157,330
76 : 3,145,892
3,149,766
78 : 3,150,810
83 : 3,125,267
3,146,928
88 : 3,140,029
91 : 3,136,464
92 : 3,127,079
3,154,236
95 : 3,118,582
3,136,465
3,140,030
3,142,428
3,143,267
3,144,187
3,148,816
3,149,767
3,151,795
3,162,345
97 : 3,125,268
3,127,080
3,134,527
3,134,528
3,151,796
3,156,398
3,156,399
100 : 3,157,331
105 : 3,118,583
3,158,306
106 : 3,147,899
107 : 3,151,797
108 : 3,132,785
109 : 3,140,031
110 : 3,119,536
3,125,269
3,130,887
3,134,529
111 : 3,119,537
3,123,268
3,132,786
3,136,466
3,147,900
113 : 3,130,888
118 : 3,123,269
3,161,337
119 : 3,157,332
128 : 3,138,312
135 : 3,157,333
136 : 3,143,268
137 : 3,148,817
141 : 3,123,270
3,125,270
3,140,032
3,163,342
143 : 3,118,584
3,124,290
150 : 3,157,334
3,159,325
151 : 3,126,138
3,128,028
154 : 3,137,428
157 : 3,119,538
3,156,400
163 : 3,161,338
165 : 3,127,081
168 : 3,131,844
170 : 3,145,893
172 : 3,143,269
173 : 3,116,865
3,128,930
176 : 3,125,271
3,132,787
3,137,429
3,147,901
176 : 3,148,818
3,148,819
177 : 3,136,467
178 : 3,124,291
3,130,889
180 : 3,137,430
3,145,894
184 : 3,132,788
186 : 3,123,271
3,135,448
187 : 3,142,429
190 : 3,139,226
192 : 3,120,916
193 : 3,141,593
196 : 3,125,272
3,140,033
3,143,270
197 : 3,123,272
199 : 3,119,539
3,128,931
3,141,594
3,163,343

Class 229

1.5 : 3,122,296
.5 : 3,123,273
.5 : 3,126,139
.5 : 3,128,029
.5 : 3,131,845
.5 : 3,135,449
.5 : 3,137,431
.5 : 3,141,595
.5 : 3,144,971
.5 : 3,151,798
.5 : 3,152,743
.5 : 3,157,335
2.5 : 3,119,540
.5 : 3,128,030
.5 : 3,128,932
.5 : 3,128,933
.5 : 3,129,866
.5 : 3,131,846
.5 : 3,135,450
.5 : 3,138,313
.5 : 3,138,314
.5 : 3,140,807
.5 : 3,144,972
.5 : 3,144,973
.5 : 3,145,895
.5 : 3,145,896
.5 : 3,146,929
.5 : 3,151,799
.5 : 3,155,303
3.1 : 3,133,685
.1 : 3,137,432
.1 : 3,153,502
.1 : 3,155,304
.5 : 3,125,273
.5 : 3,136,468
.5 : 3,140,034
.5 : 3,144,974
.5 : 3,151,800
4.5 : 3,140,808
.5 : 3,143,271
.5 : 3,144,975
.5 : 3,145,897
.5 : 3,146,930
.5 : 3,147,902
.5 : 3,156,401
.5 : 3,157,336
.5 : 3,157,337
.5 : 3,157,338
.5 : 3,162,346
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5.5 : 3,119,541
.5 : 3,135,451
.5 : 3,150,811
.5 : 3,157,339
.6 : 3,133,686
.6 : 3,136,469
.6 : 3,162,348
.7 : 3,120,917
.7 : 3,157,340
6 : 3,136,470
3,160,341
7 : 3,127,082
3,128,031
3,134,530
3,138,315
3,144,976
3,146,931
8 : 3,145,898
3,153,503
11 : 3,127,083
14 : 3,117,709
3,119,542
3,119,543
3,119,544
3,121,521
3,122,297
3,123,274
3,124,292
3,125,274
14 : 3,127,084
3,128,934
3,129,867
3,129,868
3,130,890
3,132,789
3,133,687
3,135,452
3,136,471
3,137,433
3,139,227
3,144,188
3,145,899
3,145,900
3,146,932
3,147,903
3,149,768
3,155,305
3,157,341
3,157,342
3,158,307
3,158,308
3,158,311
3,159,326
3,161,339
15 : 3,125,275
3,152,744
16 : 3,118,585
3,119,545
3,122,298
3,124,293
3,126,140
3,130,891
3,130,892
3,138,316
3,144,977
3,150,812
3,163,344
17 : Re.25,532
3,117,710
3,118,586
3,123,275
3,124,294
3,125,276
3,126,141
3,127,085
3,128,032
3,131,847
3,133,688
3,133,689
3,134,531
3,141,596
3,141,597
3,147,904
3,147,905
3,147,906
3,147,907
3,149,769
3,153,504
3,155,306
3,161,340
3,124,295
3,124,296
3,162,349
19 : 3,128,935
20 : 3,130,893
3,132,790
3,160,342
21 : 3,132,791
3,152,746
22 : 3,142,430
3,157,343
23 : 3,118,587
3,118,588
3,121,522
3,121,523
3,128,033
3,132,792
3,136,472
3,142,431
3,144,189
3,145,901
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3,157,345
3,157,346
3,159,327
27 : 3,118,589
3,125,277
3,127,086
3,135,453
3,135,454
3,144,190
3,145,902
3,145,903
3,157,344
28 : 3,130,894
3,152,747
3,158,309
3,161,342
29 : 3,163,345
30 : 3,135,455
3,140,035
3,149,770
3,156,402
31 : 3,116,866
31 : 3,118,590
3,131,848
3,137,434
3,146,933
3,146,934
3,156,403
3,158,310
34 : 3,116,867
3,118,591
3,122,299
3,131,849
3,136,473
3,139,228
3,151,801
3,152,748
3,162,350
35 : 3,161,343
36 : 3,126,142
3,144,191
37 : 3,120,333
3,122,300
3,126,143
3,140,809
3,140,810
3,143,272
3,144,192
3,144,978
3,148,820
3,162,351
38 : 3,120,334
3,121,524
3,142,432
39 : 3,140,811
3,140,812
3,140,813
3,145,904
3,163,347
40 : 3,119,546
3,122,301
3,122,302
3,125,278
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3,128,034
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3,137,435
3,140,036
3,151,802
3,156,404
3,157,347
3,160,344
3,161,344
41 : 3,119,547
3,123,276
3,144,979
3,148,821
42 : 3,131,850
3,139,229
43 : 3,120,335
3,124,295
3,124,296
3,153,505
44 : 3,118,592
3,122,303
3,135,456
3,163,348
3,163,349
45 : 3,140,037
3,146,935
3,148,822
3,161,345
48 : 3,124,297
3,137,436
3,145,905
3,163,350
49 : 3,126,144
51 : 3,116,868
3,116,869
3,122,304
3,122,305
3,123,277
3,125,280
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3,129,869
3,129,870
3,131,851
3,131,852
3,132,793
3,135,457
3,136,474
3,137,437
3,141,598
3,142,433
3,143,273
3,143,274
3,144,193
3,144,194
3,144,195
3,144,980
3,145,906
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3,148,823
51 : 3,148,824
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3,153,506
3,154,237
3,158,312
3,159,328
3,161,346
3,162,352
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52 : 3,120,918
3,123,278
3,126,145
3,140,814
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53 : 3,119,548
3,122,306
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3,133,690
3,133,691
3,142,434
3,145,907
3,160,343
3,162,353
54 : 3,126,146
3,128,035
3,140,038
3,142,435
3,145,908
3,152,750
55 : Re.25,694
3,129,848
3,130,896
3,141,600
3,143,276
3,149,771
3,154,238
57 : 3,117,711
3,136,475
3,143,277
62 : 3,117,712
3,128,936
3,140,039
3,141,601
3,142,436
3,143,278
3,149,772
3,154,239
3,163,352
.5 : 3,129,871
.5 : 3,130,897
.5 : 3,131,853
.5 : 3,137,438
.5 : 3,144,197
.5 : 3,162,354
63 : 3,119,549
3,125,281
3,132,794
3,135,458
65 : 3,150,813
66 : 3,120,336
3,124,298
3,140,815
68 : 3,116,870
3,127,089
3,132,795
3,140,040
3,142,437
3,159,329
3,162,355
3,162,356
69 : 3,140,816
3,161,347
70 : 3,141,603
3,155,307
71 : 3,136,476
3,158,313
72 : 3,126,147
3,129,872
3,140,817
73 : 3,131,854
3,143,279
3,152,751
76 : 3,123,280
3,139,230
80 : 3,151,803
81 : 3,124,299
85 : 3,143,280
86 : 3,139,231
87 : 3,120,337
3,121,525
3,123,281
3,127,090
3,135,459
3,141,602
3,152,745
92.1 : 3,124,300
.1 : 3,126,148
.3 : 3,132,796
.8 : 3,140,818

93 : 3,130,898

Class 230

1 : 3,128,937
2 : 3,119,550
9 : 3,150,814
18 : 3,140,819
30 : 3,144,982
31 : 3,119,551
38 : 3,144,198
39 : 3,153,508
40 : 3,136,477
3,136,478
42 : 3,150,815
44 : 3,140,041
45 : 3,117,713
3,141,604
3,144,199
47 : 3,147,909
3,150,816
52 : 3,148,825
3,151,804
3,151,805
55 : 3,143,281
3,155,308
3,156,405
56 : 3,125,282
3,129,878
3,143,282
3,149,773
3,155,309
3,159,330
3,159,331
3,162,357
58 : 3,120,338
69 : 3,120,339
3,120,919
3,120,920
3,125,283
3,134,533
3,140,820
3,141,605
3,144,200
3,145,909
3,147,910
3,149,774
3,149,775
3,150,817
3,150,818
3,150,819
3,152,752
3,155,310
3,156,406
3,159,332
3,159,333
79 : 3,154,240
84 : 3,149,776
92 : 3,127,091
3,129,873
3,129,874
95 : Re.25,555
3,158,314
101 : 3,117,714
3,134,534
3,141,606
114 : 3,119,552
3,123,282
3,123,283
3,128,938
3,138,317
3,154,241
3,159,334
115 : 3,157,349
116 : 3,118,593
3,121,526
3,128,036
3,133,693
3,134,535
3,140,821
3,150,820
3,163,353
117 : Re.25,569
3,117,715
3,120,340
3,122,307
3,125,284
3,127,092
3,141,607
3,145,910
3,150,821
3,154,242
3,159,335
3,162,358
118 : 3,139,232
3,150,822
120 : 3,117,716
3,118,594
3,129,876
3,144,201
3,156,407
121 : 3,143,283
122 : 3,121,527
3,138,318
122 : 3,142,438
3,146,938
123 : 3,127,093
125 : 3,124,301
3,144,202
3,144,203
3,145,911
3,161,348
127 : 3,145,912
128 : 3,123,284
130 : 3,134,536
3,145,913
3,146,939
132 : 3,144,983
3,150,823
133 : 3,123,285
3,126,149
134 : 3,119,553
3,123,286
3,127,094
3,128,939
3,128,940
3,130,899
3,138,319
3,140,042
3,144,204
3,147,911
3,154,243
3,156,408
138 : 3,122,308
3,135,460
3,151,806
139 : Re.25,567
3,121,528
140 : 3,157,350
141 : 3,121,529
3,129,875
3,133,694
142 : 3,116,871
143 : 3,129,877
3,138,320
3,161,349
145 : 3,118,595
3,120,921
3,127,095
3,127,096
3,130,900
3,139,233
3,142,439
3,142,440
3,151,807
3,155,311
3,159,336
3,161,350
149 : 3,162,359
150 : 3,133,695
152 : 3,138,321
158 : 3,116,872
3,121,530
160 : 3,118,596
3,133,696
162 : 3,133,692
170 : 3,149,777
172 : 3,149,778
3,163,354
187 : 3,130,901
188 : 3,137,439
3,163,355
189 : 3,122,309
203 : 3,146,940
205 : 3,151,808
206 : 3,123,287
3,128,941
3,131,855
3,145,914
3,147,912
3,154,244
3,162,360
207 : 3,130,902
3,140,043
3,147,913
208 : 3,152,753
209 : 3,145,915
210 : 3,134,537
211 : 3,145,916
3,156,409
229 : 3,136,479
230 : 3,125,285
232 : 3,141,608
3,147,914
3,154,245
3,155,312
3,156,410
3,157,351
233 : 3,125,286
235 : 3,143,284
238 : 3,131,856
3,155,313
273 : 3,123,288
3,137,440

Class 231

2 : 3,119,554
2 : 3,125,287
3,136,480

Class 232

1 : 3,118,597
3,148,826
5 : 3,128,942
3,143,285
3,161,351
16 : 3,145,917
3,161,352
17 : 3,134,538
3,144,984
24 : 3,144,985
35 : 3,143,286
3,143,287
3,144,986
3,163,356
43.1 : 3,141,609
.1 : 3,145,918
.2 : 3,155,314
.2 : 3,162,361
44 : 3,127,097
62 : 3,154,246
63 : 3,128,037
65 : 3,144,987

Class 233

4 : 3,119,775
3,126,337
3,151,073
7 : 3,143,504
3,148,145
11 : 3,129,174
3,148,146
14 : 3,145,172
15 : 3,132,100
3,133,880
19 : 3,135,691
3,141,846
20 : 3,117,928
3,133,881
3,145,173
3,160,589
21 : 3,127,342
3,161,593
23 : 3,126,338
24 : 3,151,074
26 : 3,133,882
28 : 3,129,175
29 : 3,145,174
3,146,198
39 : 3,125,516

Class 234

1 : 3,140,822
20 : 3,127,098
22 : 3,145,919
30 : 3,119,555
33 : 3,159,337
34 : 3,144,205
37 : 3,128,943
45 : 3,124,302
3,135,461
3,143,288
50 : 3,120,922
54 : 3,133,697
55 : 3,145,920
63 : 3,130,903
78 : 3,127,099
3,137,441
80 : 3,122,310
96 : 3,158,315
100 : 3,131,857
3,138,322
102 : 3,145,921
103 : 3,123,289
107 : 3,124,303
108 : 3,117,717
109 : 3,144,988
110 : 3,132,797
115 : 3,119,556
3,123,290
3,126,150
3,127,100
3,133,698
3,136,481
119 : 3,122,311
3,140,044
128 : 3,144,989

Class 235

1 : 3,138,323
3,145,922
9 : 3,127,101
23 : 3,117,718
30 : 3,157,352
3,163,357
32 : 3,128,038
47 : 3,137,442
50 : 3,132,798
3,158,316
51 : 3,125,288
3,133,699
3,148,827
54 : 3,118,598
3,125,289
3,162,362
58 : 3,117,719
3,121,531
3,152,754
60 : 3,120,341
3,130,904
3,135,462
3,136,482
3,138,324
3,140,823
3,142,441
3,145,923
3,155,315
3,156,411
3,161,353
.12: 3,146,941
.13: 3,117,720
.13: 3,145,924
.15: 3,138,325
.15: 3,143,289
.18: 3,159,338
.2 : 3,135,463
.25: 3,149,779
.47: 3,161,354
61 : 3,117,721
3,122,312
3,122,313
3,122,314
3,127,102
3,128,039
3,128,040
3,128,944
3,129,879
3,131,858
3,132,799
3,132,800
3,134,539
3,134,540
3,137,443
3,139,234
3,139,235
3,141,610
3,143,290
3,159,339
3,159,340
3,161,355
.1 : 3,124,674
.11: 3,118,054
.11: 3,123,706
.11: 3,124,675
.11: 3,125,672
.11: 3,128,372
.11: 3,131,291
.11: 3,132,241
.11: 3,132,242
.11: 3,134,895
.11: 3,139,519
.11: 3,139,520
.11: 3,141,958
.11: 3,142,749
.11: 3,145,291
.11: 3,146,341
.11: 3,146,342
.11: 3,152,247
.11: 3,153,721
.11: 3,157,777
.11: 3,160,739
.11: 3,163,746
.12: 3,143,642
.5 : 3,126,473
.5 : 3,133,188
.5 : 3,161,760
.6 : 3,121,159
.6 : 3,121,786
.6 : 3,128,371
.6 : 3,149,225
.6 : 3,153,141
.7 : 3,129,321
.9 : 3,127,504
.9 : 3,136,886
62 : 3,132,801
3,157,353
63 : 3,116,873
3,116,874
3,128,945
3,140,045
3,143,291
3,159,341
64.7 : 3,117,722
70 : 3,120,342
3,135,464
3,135,465
3,146,942
3,146,943
3,162,363
73 : Re.25,610
3,152,755
74 : 3,129,880
76 : 3,131,859
78 : 3,126,151
3,150,824
3,160,345
79.5 : 3,129,881
.5 : 3,144,990
.5 : 3,147,915
84 : 3,120,923
87 : 3,123,291
88 : 3,152,756
89 : 3,125,290
3,130,905
3,162,364
3,163,358
91 : 3,119,557
3,120,924
3,128,041
3,130,906
3,134,541
3,140,046
3,141,611
3,147,916
3,147,917
3,152,757
92 : 3,119,011
3,120,602
3,121,160
3,121,787
3,125,673
3,127,505
3,128,373
3,129,322
3,130,297
3,130,298
3,132,243
3,133,189
3,134,015
3,139,521
3,141,091
3,141,959
3,141,960
3,145,292
3,145,293
3,151,234
3,151,235
3,151,236
3,154,670
3,154,671
3,154,672
3,156,814
3,157,778
3,159,342
3,160,740
3,160,741
3,161,761
3,163,747
95 : 3,130,907
98 : 3,146,944
99 : 3,141,612
101 : 3,123,292
3,133,700
103 : 3,123,293
.5 : 3,139,236
110 : 3,120,925
117 : 3,137,444
3,147,918
118 : 3,131,860
119 : 3,157,354
130 : 3,129,882
132 : 3,118,599
3,119,558
3,125,291
137 : 3,126,152
138 : 3,152,758
139 : 3,116,875
144 : 3,120,343
3,122,315
3,129,883
3,131,861
3,142,442
3,149,780
3,151,809
145 : 3,126,153
3,147,919
3,152,759
3,158,317
146 : 3,156,412
3,158,318
.1 : 3,122,630
150 : 3,119,928
3,143,643
3,146,343
151 : 3,120,603
3,126,474
3,128,374
3,129,323
3,131,292
3,132,244
3,135,861
3,140,391
3,145,294
3,146,344
3,147,370
151 : 3,149,226
3,150,253
3,151,237
3,152,248
3,154,673
3,154,674
3,155,816
3,155,817
152 : 3,127,506
3,134,016
3,137,787
3,139,522
3,145,295
3,147,371
3,148,273
3,159,738
153 : 3,117,219
3,137,788
3,138,701
154 : 3,153,142
155 : 3,132,245
3,151,238
156 : 3,131,293
157 : 3,117,220
3,118,055
3,130,299
3,138,702
3,143,644
3,144,549
3,144,550
3,157,779
3,161,763
159 : 3,120,604
3,133,190
160 : 3,118,056
3,120,606
3,126,475
3,161,764
164 : 3,123,707
3,124,676
3,126,476
3,141,963
3,141,964
3,145,296
3,154,675
3,156,815
3,157,780
3,158,736
3,159,739
3,160,742
3,163,749
165 : 3,155,820
167 : 3,130,300
3,131,294
168 : Re.25,518
3,155,821
169 : 3,159,740
170 : 3,146,345
3,154,676
172 : 3,125,674
3,148,274
3,156,816
173 : Re.25,621
3,127,507
3,155,822
175 : 3,121,161
3,125,675
3,125,676
3,129,324
3,131,295
3,138,703
176 : 3,119,929
3,131,296
3,135,862
3,138,704
3,141,965
3,147,372
3,154,677
3,161,765
177 : 3,124,677
3,137,789
3,139,523
3,143,645
179 : 3,128,375
3,141,966
3,158,737
180 : 3,129,325
3,134,017
3,143,646
3,154,678
181 : 3,127,508
3,134,896
3,147,373
3,156,817
3,157,781
3,163,750
183 : 3,118,057
3,118,058
183 : 3,119,930
3,129,326
3,137,790
3,141,967
3,145,297
3,152,249
3,155,823
3,159,741
3,162,756
184 : 3,142,750
3,146,346
3,153,143
3,159,742
185 : 3,117,221
3,141,968
3,151,239
187 : 3,118,059
3,158,738
3,162,757
188 : 3,127,509
189 : 3,131,297
3,147,374
3,155,824
193 : 3,125,677
3,127,510
3,130,301
3,141,969
3,150,254
3,152,250
3,157,782
3,157,783
194 : 3,121,788
3,131,298
3,138,705
3,139,524
3,154,679
3,160,743
3,163,751
195 : 3,161,766
196 : 3,162,758
3,162,759
197 : 3,117,222
3,119,012
3,120,605
3,124,678
3,128,376
3,128,377
3,136,887
3,140,392
3,145,298
3,151,240
3,158,739
3,160,744
198 : 3,159,743
200 : 3,142,751
3,159,343
3,162,365
201 : 3,155,825
3,157,355

Class 236

1 : 3,120,344
3,122,316
3,125,292
3,127,103
3,129,884
3,138,326
3,140,047
3,145,925
3,146,945
3,149,781
3,150,825
9 : 3,126,154
3,154,247
3,158,319
12 : 3,124,304
3,131,862
3,148,828
3,152,760
3,160,346
13 : 3,123,294
3,145,926
15 : 3,123,295
3,128,042
3,132,802
3,158,320
20 : 3,159,344
21 : 3,122,317
3,154,248
23 : 3,118,600
26 : 3,159,345
33 : 3,149,782
3,159,346
34 : 3,127,104
3,146,946
3,154,249
3,157,356
.5 : 3,120,926
.5 : 3,123,297
.5 : 3,129,885
.5 : 3,157,357
35 : 3,158,321
42 : 3,156,413

Class 236—Con.

44 : 3,118,601
46 : 3,123,298
48 : 3,155,316
3,158,322
3,162,366
3,163,359
49 : 3,117,723
3,129,886
3,130,908
3,143,292
51 : 3,136,483
53 : 3,147,920
54 : 3,145,927
56 : 3,146,947
63 : 3,141,613
66 : 3,148,829
68 : 3,123,299
3,132,803
3,148,830
74 : RE.25,540
78 : 3,127,105
3,128,946
3,131,863
80 : 3,118,602
3,155,317
82 : 3,121,532
86 : 3,151,810
87 : 3,122,318
91 : 3,119,559
3,150,826
93 : 3,128,043
3,146,948
99 : 3,123,296
3,125,293
3,144,206
3,145,928
101 : 3,132,804
102 : 3,123,300
3,132,805

Class 237

I : 3,157,358
2 : 3,144,207
II : 3,116,876
3,118,603
3,122,319
3,128,947
3,131,864
3,144,208
3,144,991
3,150,827
10 : 3,134,542
12.3 : 3,155,318
16 : 3,131,865
17 : 3,140,824
56 : 3,119,560
3,140,048
63 : 3,134,543
78 : 3,127,106

Class 238

II : 3,141,614
10 : 3,138,327
3,139,237
3,140,825
14 : 3,152,761
23 : 3,123,301
152 : 3,154,250
265 : 3,129,887
283 : 3,158,323
310 : 3,147,921
327 : 3,159,347
371 : 3,145,929

Class 239

2 : 3,127,107
3 : 3,122,320
4 : 3,123,302
8 : 3,141,615
11 : 3,149,783
14 : 3,118,604
3,126,155
3,135,466
15 : 3,121,533
3,128,045
3,144,209
3,145,930
3,148,831
3,148,832
19 : 3,162,367
20 : 3,151,811
24 : 3,118,605
3,142,443
25 : 3,133,701
44 : 3,123,303
45 : 3,152,762
52 : 3,120,345
55 : 3,129,888
3,134,544
63 : 3,118,606
65 : 3,127,108
75 : 3,143,293
77 : 3,123,304
3,125,294
3,138,328
3,138,329
78 : 3,130,909
3,151,812
79 : 3,136,484
3,140,826
3,150,828
81 : 3,141,616
84 : 3,122,321
85 : 3,129,889
3,159,348
90 : 3,131,866
92 : 3,146,949
97 : 3,117,724
3,131,867
102 : 3,121,534
3,123,305
3,125,295
3,145,931
3,157,359
3,162,368
104 : 3,118,607
107 : 3,150,829
109 : 3,130,911
116 : 3,128,046
124 : 3,120,927
3,163,360
126 : 3,140,049
127 : 3,129,890
3,147,922
128 : 3,146,950
130 : 3,122,322
132 : 3,116,877
3,118,608
3,128,948
135 : 3,143,294
142 : 3,116,878
3,123,306
3,143,295
143 : 3,140,050
150 : 3,148,833
3,162,369
155 : 3,121,535
156 : 3,122,323
159 : 3,158,324
3,160,347
162 : 3,127,109
168 : 3,117,725
172 : 3,136,485
3,153,509
178 : 3,140,827
183 : 3,126,156
187 : 3,158,325
191 : 3,128,047
3,155,319
198 : 3,150,830
201 : 3,160,348
204 : 3,127,110
205 : 3,118,609
206 : 3,149,784
211 : 3,150,831
212 : 3,163,361
215 : 3,120,346
3,140,051
216 : 3,125,296
222 : 3,133,702
227 : 3,140,828
242 : 3,143,296
248 : 3,141,618
251 : 3,143,297
253 : 3,121,536
261 : 3,125,297
264 : 3,143,298
273 : 3,138,330
277 : 3,131,868
284 : 3,141,617
286 : 3,153,510
289 : 3,121,537
3,155,320
291 : 3,117,726
304 : 3,118,610
3,135,467
3,162,370
309 : 3,119,561
310 : 3,139,238
312 : 3,128,949
3,134,545
3,134,546
316 : 3,157,348
318 : 3,119,562
3,122,324
3,122,325
3,132,806
3,140,829
327 : 3,132,807
3,140,052
3,162,371
332 : 3,116,879
3,120,347
336 : 3,123,307
3,130,912
337 : 3,138,331
346 : 3,136,486
351 : 3,136,487
354 : 3,157,360
3,162,372
373 : 3,147,923
399 : 3,146,951
401 : 3,122,326
3,163,362
404 : 3,130,910
3,147,924
405 : 3,129,891
407 : 3,129,892
413 : 3,131,869
415 : 3,126,157
3,130,913
3,132,808
3,144,210
3,146,952
423 : 3,137,445
424 : 3,141,619
425 : 3,130,914
427 : 3,130,915
3,130,916
3,130,917
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3,143,299
3,157,361
431 : 3,122,327
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434 : 3,137,446
441 : 3,163,363
443 : 3,150,832
453 : 3,156,414
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488 : 3,128,048
490 : 3,120,348
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502 : 3,136,488
532 : 3,144,211
533 : 3,118,611
3,124,305
3,126,158
3,159,350
538 : 3,146,953
539 : 3,116,880
543 : 3,125,298
546 : 3,130,919
552 : 3,116,881
567 : 3,131,870
569 : 3,132,809
573 : 3,158,326
579 : 3,118,612
583 : 3,140,830
587 : 3,116,882
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601 : 3,130,920
602 : 3,129,894

Class 240

1 : 3,132,810
.1 : 3,152,763
.2 : 3,146,954
.2 : 3,155,321
.2 : 3,162,373
.3 : 3,118,613
.3 : 3,127,111
.3 : 3,127,112
.3 : 3,127,113
.3 : 3,134,547
.3 : 3,140,053
2 : 3,131,871
3,133,703
3,135,468
3,135,469
.1 : 3,120,349
.1 : 3,128,950
.13: 3,162,374
.17: 3,118,614
.17: 3,135,470
.17: 3,137,447
.18: 3,140,054
3 : 3,141,620
3,149,785
3,152,764
3,155,322
.1 : 3,135,471
.1 : 3,143,300
4 : 3,127,114
6.4 : 3,119,563
.4 : 3,119,564
.4 : 3,127,115
.4 : 3,128,951
.4 : 3,144,992
.4 : 3,146,955
.4 : 3,155,323
.43: 3,116,883
.45: 3,118,615
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.46: 3,122,328
6.46: 3,128,952
7.1 : 3,117,727
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.35: 3,156,415
8.16: 3,120,350
.16: 3,122,329
.16: 3,132,811
.16: 3,140,831
.16: 3,154,251
.16: 3,162,375
.2 : 3,130,921
.2 : 3,145,933
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9 : RE.25,628
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.4 : 3,154,252
16 : 3,158,328
20 : 3,157,362
25 : 3,118,619
3,123,308
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3,161,356
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26 : 3,116,884
36 : 3,162,377
37.1 : 3,125,300
41.1 : 3,142,444
.3 : 3,130,924
.3 : 3,144,993
.35: 3,132,812
.35: 3,148,834
.35: 3,152,765
44.2 : 3,162,378
46.01: 3,124,308
.01: 3,138,333
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.03: 3,119,566
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.51: 3,148,835
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54 : 3,154,253
59 : 3,134,548
60 : 3,133,705
73 : 3,122,331
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78 : 3,117,730
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3,158,329
82 : 3,161,357
84 : 3,156,418
90 : 3,143,301
92 : 3,116,885
102 : 3,119,568
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132 : 3,127,118
3,147,929
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147 : 3,117,731
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3,156,419
3,158,330
153 : 3,126,160

Class 241

1 : 3,148,837
3 : 3,135,473
4 : 3,162,379
3,162,380
5 : 3,124,312
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14 : 3,148,838
3,154,255
15 : 3,146,958
3,150,834
16 : 3,150,835
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18 : 3,155,325
20 : 3,149,788
21 : 3,117,733
3,135,474
3,148,839
22 : 3,129,896
24 : 3,145,935
27 : 3,131,875
3,149,789
28 : 3,123,311
29 : 3,117,734
32 : 3,133,706
.5 : 3,142,448
34 : 3,160,351
35 : 3,157,365
37 : 3,133,707
38 : 3,140,056
39 : 3,138,335
3,159,353
40 : 3,162,381
46 : 3,120,353
3,128,051
3,137,450
3,141,622
3,143,302
3,145,936
3,154,256
3,159,354
3,163,368
3,163,369
51 : 3,143,303
53 : 3,155,326
3,162,382
54 : 3,162,383
55 : 3,119,569
3,123,312
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3,149,790
56 : 3,155,327
68 : 3,151,813
70 : 3,144,212
73 : 3,119,570
3,138,336
74 : 3,124,313
3,134,549
82 : 3,161,359
86 : 3,146,959
3,163,370
90 : 3,162,384
97 : 3,118,622
98 : 3,160,352
99 : 3,151,814
100.5 : 3,144,213
.5 : 3,161,360
.5 : 3,163,371
101 : 3,128,053
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3,159,355
103 : 3,138,337
109 : 3,136,490
111 : 3,154,257
117 : 3,150,836
118 : RE.25,552
140 : 3,145,938
143 : 3,129,897
159 : 3,146,960
163 : 3,162,385
168 : 3,130,926
3,130,927
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172 : 3,124,314
183 : 3,125,302
186 : 3,128,054
3,143,304
3,151,815
188 : 3,157,366
189 : 3,150,837
191 : 3,146,961
3,151,816
202 : 3,131,876
207 : 3,118,623
213 : 3,125,303
216 : 3,140,834
217 : 3,156,421
224 : 3,124,315
230 : 3,159,356
231 : 3,125,304
232 : 3,154,258
239 : 3,117,735
241 : 3,128,953
243 : 3,120,354
244 : 3,158,333
251 : 3,118,624
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256 : 3,129,898
258 : 3,155,330
260 : 3,144,994
3,149,792
261 : 3,125,305
262 : 3,131,878
264 : 3,160,353
269 : 3,128,954
274 : 3,157,367
275 : 3,148,840
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277 : 3,132,815
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279 : 3,143,305
285 : 3,140,057
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286 : RE.25,683
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290 : 3,133,708
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291 : 3,129,899
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3,160,355
294 : 3,138,338
298 : 3,125,306
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3,144,995
300 : 3,153,512

Class 242

1.1 : 3,129,900
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2 : 3,130,928
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3 : 3,136,492
4 : 3,125,307
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7 : 3,117,736
3,123,313
3,137,451
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9 : 3,121,538
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18 : 3,116,887
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19 : 3,155,331
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25 : 3,118,627
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26.3 : 3,130,930
.4 : 3,138,339
31 : 3,127,119
35.5 : 3,121,540
.5 : 3,121,541
.5 : 3,124,316
.5 : 3,145,939
.5 : 3,151,818
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.13: 3,119,574
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.18: 3,134,551
.19: 3,126,162

55.19: 3,126,163
.19: 3,134,552
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.19: 3,150,841
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.19: 3,161,362
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.53: 3,127,121
.53: 3,140,060
.53: 3,156,425
.54: 3,162,390
.55: 3,151,822
56 : 3,123,315
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.1 : 3,163,374
.2 : 3,122,335
.2 : 3,156,426
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.2 : 3,162,391
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.4 : 3,144,216
57 : 3,161,365
58.2 : 3,163,375
.3 : 3,161,366
.4 : 3,123,316
.4 : 3,138,341
.4 : 3,161,367
.4 : 3,161,368
64 : 3,116,890
66 : 3,133,712
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67.1 : 3,122,336
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.1 : 3,145,944
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.8 : 3,155,336
72 : 3,127,124
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74 : 3,128,959
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75.3 : 3,123,317
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.4 : 3,118,631
.4 : 3,120,930
.4 : 3,127,125
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.47: 3,145,945
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76 : 3,140,062
77.4 : 3,160,362
78.1 : 3,122,337
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.6 : 3,162,394

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80 : 3,126,165
82 : 3,128,961
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83 : 3,120,931
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84.1 : 3,116,892
.1 : 3,126,166
.1 : 3,138,343
.2 : 3,116,893
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.2 : 3,123,318
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.2 : 3,128,059
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103 : 3,133,714
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149 : 3,129,902
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154 : 3,118,635
156 : 3,134,559
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.1 : 3,152,773

159 : 3,153,519
163 : 3,156,432
172 : 3,158,335
176 : 3,161,372

Class 243

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39 : 3,117,743

Class 244

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7 : 3,117,745
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31 : 3,119,578
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32 : 3,154,268
33 : 3,151,825
34 : 3,154,269
41 : 3,139,247
42 : 3,117,751
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43 : 3,130,944
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46 : 3,120,361
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51 : 3,144,999
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53 : 3,119,581
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55 : 3,121,546
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58 : 3,123,323
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62 : 3,120,363
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63 : 3,138,352
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73 : 3,156,437
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74 : 3,143,318
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79 : 3,158,340
82 : 3,140,844
83 : 3,119,580
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3,149,806
3,155,347
3,156,438
3,161,383
87 : 3,125,313
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90 : 3,120,935
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98 : 3,128,969
100 : 3,128,970
3,143,321
3,144,223
3,150,849
3,162,403
3,163,381
101 : 3,136,505
3,154,270
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102 : 3,121,547
3,122,345
3,127,134
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3,132,829
3,136,506
3,156,439
3,163,382
103 : 3,133,717
104 : 3,128,064
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105 : 3,145,954
107 : 3,125,314
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108 : 3,128,065
110 : 3,118,640
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3,139,249
3,140,845
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3,148,849
3,152,780
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3,158,342
3,158,343
3,160,371
111 : 3,129,903
113 : 3,145,955
3,146,975
114 : 3,126,176
3,128,066
3,141,639

114 : 3,142,460
3,143,322
3,147,940
3,157,374
3,162,404
115 : 3,151,826
117 : 3,128,067
118 : 3,161,384
119 : 3,155,348
122 : RE.25,612
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3,124,324
3,126,177
3,126,178
3,130,947
3,152,781
3,158,344
123 : 3,135,486
3,145,000
3,156,440
125 : 3,129,911
126 : 3,127,135
129 : 3,128,068
3,131,892
3,144,224
3,160,372
3,163,383
130 : 3,128,973
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133 : 3,127,136
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134 : 3,123,327
3,134,563
135 : 3,131,893
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3,156,441
137 : 3,142,461
3,147,942
3,160,373
138 : 3,116,901
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3,141,641
3,143,323
3,150,850
3,156,442
3,160,374
139 : 3,129,912
3,129,913
142 : 3,118,641
3,137,465
145 : 3,117,753
3,127,137
3,131,894
3,136,508
3,152,782
147 : 3,133,718
3,145,956
148 : 3,140,067
3,142,462
149 : 3,120,365
3,124,325
3,154,271
151 : 3,124,326
3,149,807
3,154,272
152 : 3,146,976
153 : 3,116,902
3,120,366
3,120,367
3,128,974
3,131,895
3,161,386
155 : 3,119,584
3,138,356

Class 245

7 : 3,145,001

Class 246

2 : 3,117,754
3,128,069
3,162,405
33 : 3,145,002
39 : 3,145,957
77 : 3,144,225
121 : 3,128,975
122 : 3,128,070
3,155,350
126 : 3,157,375
160 : 3,145,958
167 : 3,140,068
169 : RE.25,598
3,120,936
3,163,384
182 : 3,125,315
3,128,976
187 : 3,138,357
231 : 3,126,179

232 : 3,144,226
249 : 3,144,227
3,151,827
3,161,387
258 : 3,158,345
393 : 3,127,138
3,136,509
415 : 3,117,755
3,128,977
428 : 3,146,977
468 : 3,118,642

Class 248

1 : 3,123,328
3,128,071
2 : 3,138,358
3,147,943
3,155,351
3,161,388
3 : 3,142,463
4 : 3,145,003
3,158,346
5 : 3,135,487
9 : 3,132,830
3,137,466
3,145,004
10 : 3,139,250
13 : 3,121,548
3,145,959
3,145,960
14 : 3,161,389
15 : 3,146,978
16 : 3,117,756
3,129,914
3,160,375
17 : 3,155,352
18 : 3,137,467
19 : 3,134,564
20 : 3,146,979
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21 : 3,144,228
22 : 3,128,978
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23 : 3,127,139
3,158,347
25 : 3,128,979
26 : 3,160,377
27 : 3,131,896
3,139,251
3,159,365
.8 : 3,131,897
.8 : 3,136,510
.8 : 3,148,850
28 : 3,120,937
3,125,316
3,134,565
3,146,981
3,147,944
29 : 3,128,072
31 : 3,138,359
3,144,229
33 : 3,136,511
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35 : 3,117,757
37.6 : 3,136,513
.6 : 3,163,385
40 : 3,139,252
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3,155,353
3,161,390
3,162,407
3,162,408
41 : 3,126,180
3,148,851
3,162,409
42 : 3,145,961
3,154,274
3,159,366
44 : 3,119,585
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3,143,324
46 : 3,162,410
47 : 3,136,514
48 : 3,142,464
.2 : 3,126,181
.2 : 3,150,851
49 : 3,137,468
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50 : 3,135,488
54 : 3,118,643
3,148,852
3,152,783
55 : 3,128,073
56 : 3,162,411
3,162,412
58 : 3,130,948
61 : 3,160,378
62 : 3,122,346
3,136,515
63 : 3,127,140

Class 248—Con.
63 : 3,155,354
65 : 3,154,275
68 : 3,120,938
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3,145,962
3,146,982
71 : 3,117,758
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3,163,386
72 : 3,126,182
3,129,915
3,138,360
3,140,848
73 : 3,118,644
3,126,183
3,126,184
3,154,276
3,154,277
3,154,278
74 : 3,121,549
3,123,329
3,124,327
3,126,185
3,139,253
3,139,254
3,141,642
3,141,643
3,149,808
3,152,784
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75 : 3,119,587
95 : 3,138,361
97 : 3,140,070
3,142,465
99 : 3,149,809
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3,161,391
101 : 3,162,414
102 : 3,117,759
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103 : 3,120,368
104 : 3,151,828
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108 : 3,159,367
110 : 3,144,231
113 : 3,129,916
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117.1 : 3,151,829
.6 : 3,127,141
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.6 : 3,162,415
118 : 3,124,328
119 : 3,120,939
3,127,142
3,128,980
3,142,466
3,145,006
122 : 3,126,186
3,143,326
3,146,984
124 : 3,149,810
3,160,379
125 : 3,127,143
3,148,853
134 : 3,116,903
141 : 3,144,232
3,146,983
3,150,852
146 : 3,128,981
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147 : 3,137,469
149 : 3,145,007
150 : 3,139,255
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154 : 3,144,233
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157 : 3,148,854
158 : 3,119,588
3,153,524
159 : 3,119,589
160 : 3,124,329
162 : 3,154,280
183 : 3,123,330
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187 : 3,126,187
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188 : 3,126,188
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220 : 3,151,831
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226 : 3,131,901
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228 : 3,124,330
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229 : 3,135,490
230 : 3,157,378
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240.3 : 3,119,590
.4 : 3,158,348
243 : 3,122,347
3,134,567
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3,158,349
244 : 3,162,416
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247 : 3,148,857
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251 : 3,144,235
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265 : 3,128,075
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273 : 3,140,071
276 : 3,129,918
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279 : 3,124,331
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282 : 3,119,591
286 : 3,126,191
288 : 3,149,812
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304 : 3,140,849
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307 : 3,132,832
311 : 3,128,984
312 : 3,118,645
313 : 3,141,646
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317 : 3,123,331
3,143,329
318 : 3,136,522
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339 : 3,137,471
340 : 3,139,260
343 : 3,130,949
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345.1 : 3,150,854
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346 : 3,159,370
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356 : 3,133,720
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357 : 3,132,833
358 : 3,123,332
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359 : 3,132,834
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360 : 3,136,523
361 : 3,120,370
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362 : 3,126,192
370 : 3,117,760
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373 : 3,131,904
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394 : 3,123,333
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400 : 3,150,855
404 : 3,143,332
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405 : 3,161,396
408 : 3,145,965
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419 : 3,125,318
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451 : 3,161,398
455 : 3,147,948
460 : 3,153,527
463 : 3,147,949
464 : 3,145,014
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465 : 3,149,816

Class 250
39 : 3,145,299
41.9 : 3,117,223
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.9 : 3,122,631
.9 : 3,126,477
.9 : 3,129,327
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42 : 3,134,897
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52 : 3,142,754
54 : 3,158,742
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61.5 : 3,139,526
65 : 3,119,014
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66 : 3,150,263
68 : 3,119,015
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71 : 3,117,227
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3,132,254
3,135,867
3,142,761
3,158,748
3,160,758
3,160,759
220 : 3,127,517
3,145,303
222 : 3,117,233
3,121,797
3,153,727
223 : 3,159,749
3,162,765
224 : 3,150,266
3,160,760
225 : 3,149,236
226 : 3,133,201
3,151,247
227 : 3,125,683
3,130,317
3,135,868
3,151,248
229 : Re.25,646
3,121,170
3,121,798
3,134,021
3,162,766
231 : 3,116,886
3,118,068
3,118,069
3,159,750
233 : 3,140,399
3,141,095
3,143,654
235 : 3,135,869
3,144,562
236 : 3,136,895

237 : 3,128,386
3,128,387
3,134,907
3,138,714
3,153,148
3,154,688
238 : 3,163,768
239 : 3,125,684
3,143,655
3,145,304
3,153,149
3,161,777

Class 251

1 : 3,128,077
5 : 3,118,646
3,145,967
3,159,373
7 : 3,156,444
10 : 3,142,472
11 : 3,116,904
3,140,852
3,151,834
14 : 3,161,399
25 : 3,155,365
29 : 3,125,319
30 : 3,135,493
3,154,285
3,159,374
31 : 3,141,647
3,153,528
3,159,375
35 : 3,150,856
43 : 3,120,372
45 : 3,155,366
57 : 3,117,761
3,119,592
58 : 3,116,905
3,122,349
61 : 3,121,552
62 : 3,125,320
3,148,859
3,161,400
63 : 3,150,857
3,151,835
3,154,288
64 : 3,116,906
65 : 3,118,647
67 : 3,122,350
3,137,474
69 : 3,137,475
73 : 3,122,351
77 : 3,118,648
86 : 3,155,367
3,159,376
88 : 3,117,762
3,126,193
89.5 : 3,129,919
.5 : 3,140,072
100 : 3,146,987
120 : 3,163,394
124 : 3,120,373
129 : 3,140,073
133 : 3,152,785
134 : 3,160,385
137 : 3,158,350
139 : 3,120,943
3,125,321
144 : 3,145,968
147 : 3,123,334
148 : 3,126,194
3,129,920
149.1 : 3,160,386
.2 : 3,127,148
.6 : 3,131,905
.6 : 3,144,237
.8 : 3,149,817
.9 : 3,125,322
.9 : 3,127,149
158 : 3,120,944
3,130,951
161 : 3,124,333
163 : 3,141,648
3,157,380
165 : 3,117,763
167 : 3,152,786
171 : 3,119,593
3,132,836
3,156,445
172 : 3,118,650
3,121,553
3,122,352
3,132,837
3,145,969
3,148,860
3,160,387
175 : 3,128,986
3,130,952
3,151,836
3,155,368
3,159,377
176 : 3,141,649
182 : 3,130,953
183 : 3,160,388
187 : 3,155,369
188 : 3,135,494
197 : 3,125,323
205 : 3,139,262
206 : 3,144,238
210 : 3,145,010
212 : 3,136,525
214 : 3,121,554
3,124,334
3,124,335
3,128,078
3,132,838
3,133,721
3,134,569
3,147,950
3,151,837
3,154,287
3,157,381
228 : 3,119,594
248 : 3,155,370
267 : 3,151,838
279 : 3,143,333
282 : 3,123,335
3,142,473
289 : 3,116,907
298 : 3,156,446
306 : 3,122,353
309 : 3,118,649
3,133,722
3,133,723
3,142,474
312 : 3,128,987
3,157,382
315 : 3,146,988
322 : 3,158,351
325 : 3,159,378
327 : 3,149,818
3,160,389
329 : 3,158,352
331 : 3,123,336
3,130,954
3,134,570
3,134,571
3,148,861
3,154,286
3,154,288
3,157,383
333 : 3,123,337
334 : 3,160,390
349 : 3,145,011
351 : 3,151,839
357 : 3,137,476
360 : 3,131,906
363 : 3,134,572
364 : 3,160,391
366 : 3,135,495
367 : 3,154,289

Class 252

8.3 : 3,162,601
.5 : 3,123,559
.5 : 3,125,517
.5 : 3,127,343
.5 : 3,127,344
.5 : 3,138,555
.5 : 3,146,199
.5 : 3,146,200
.5 : 3,150,085
.5 : 3,157,599
.55: 3,122,503
.55: 3,125,518
.55: 3,127,345
.55: 3,131,146
.55: 3,150,086
.55: 3,163,602
.6 : 3,149,073
.75: 3,122,504
.75: 3,131,147
.75: 3,154,489
.8 : 3,122,502
.8 : 3,161,594
11 : 3,125,519
12 : 3,122,505
3,126,339
15 : 3,118,838
3,121,686
18 : 3,117,085
3,126,340
3,152,989
3,159,575
3,159,576
21 : 3,129,176
3,129,177
3,129,178
25 : 3,118,839
3,122,506
3,125,520
3,127,346
3,130,158
3,150,087
28 : 3,123,560
3,126,341
3,127,347
28 : 3,131,148
3,134,736
3,145,175
3,153,631
3,159,577
3,160,590
3,161,595
31 : 3,126,342
3,130,159
32.5 : 3,143,505
.5 : 3,146,201
.7 : 3,123,570
.7 : 3,125,521
.7 : 3,127,348
.7 : 3,127,349
.7 : 3,131,149
.7 : 3,132,101
.7 : 3,135,692
.7 : 3,143,506
.7 : 3,150,088
.7 : 3,151,075
.7 : 3,152,990
.7 : 3,155,615
.7 : 3,159,578
33 : 3,121,687
3,133,019
3,135,693
3,140,997
3,149,074
3,150,089
3,152,991
3,155,616
3,158,572
.2 : 3,117,929
.2 : 3,155,617
.3 : 3,117,930
.3 : 3,123,561
.4 : 3,118,840
.4 : 3,121,688
.4 : 3,125,522
.6 : 3,117,086
.6 : 3,121,057
.6 : 3,123,562
.6 : 3,125,523
.6 : 3,125,524
.6 : 3,125,525
.6 : 3,130,160
.6 : 3,133,020
.6 : 3,139,405
.6 : 3,149,075
.6 : 3,149,076
.6 : 3,150,090
.6 : 3,151,076
.6 : 3,158,573
.6 : 3,163,603
34.7 : 3,131,150
.7 : 3,133,021
35 : 3,123,563
3,127,350
3,163,604
36 : 3,158,574
39 : 3,129,179
3,136,725
3,152,079
3,155,618
3,155,619
40.5 : 3,121,689
.7 : 3,125,526
.7 : 3,129,180
.7 : 3,158,575
41 : 3,117,087
3,142,643
42 : 3,117,088
.4 : 3,132,102
.7 : 3,121,058
.7 : 3,121,059
.7 : 3,134,737
.7 : 3,150,091
45 : 3,124,532
46.3 : 3,125,527
.3 : 3,150,092
.3 : 3,150,093
.4 : 3,132,103
.6 : 3,135,694
.6 : 3,143,507
.6 : 3,161,596
.7 : 3,117,089
.7 : 3,133,022
.7 : 3,150,094
47 : 3,154,490
3,160,591
3,162,602
.5 : 3,137,653
.5 : 3,148,147
48.2 : 3,145,176
.6 : 3,156,649
.6 : 3,158,576
49.6 : 3,122,507
.6 : 3,125,528
.6 : 3,146,202
.6 : 3,151,077
.7 : 3,127,351
.7 : 3,129,181
.7 : 3,155,620
49.7 : 3,160,592
.8 : 3,125,529
.8 : 3,126,343
.8 : 3,131,151
.8 : 3,145,177
.8 : 3,160,593
.9 : 3,136,726
.9 : 3,136,727
.9 : 3,146,203
.9 : 3,151,078
50 : 3,132,104
51.5 : 3,117,090
.5 : 3,117,931
.5 : 3,119,776
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.5 : 3,121,690
.5 : 3,121,691
.5 : 3,125,530
.5 : 3,126,344
.5 : 3,130,161
.5 : 3,133,883
.5 : 3,143,513
.5 : 3,144,410
.5 : 3,147,222
.5 : 3,151,079
.5 : 3,151,080
.5 : 3,152,080
.5 : 3,154,491
.5 : 3,163,605
52 : 3,124,531
3,127,352
3,127,353
3,130,162
3,151,081
3,151,082
3,154,492
54 : 3,129,182
.6 : 3,117,932
.6 : 3,124,533
.6 : 3,125,531
.6 : 3,157,600
55 : 3,151,083
56 : 3,117,091
3,121,060
57 : 3,152,081
59 : 3,121,061
3,129,183
62.1 : 3,123,564
.1 : 3,135,695
.1 : 3,143,508
.3 : 3,119,778
.3 : 3,121,062
.3 : 3,125,532
.3 : 3,125,533
.3 : 3,140,998
.3 : 3,141,847
.3 : 3,141,848
.3 : 3,141,849
.3 : 3,142,644
.3 : 3,146,204
.3 : 3,152,992
.3 : 3,155,621
.3 : 3,159,579
.5 : 3,117,092
.5 : 3,117,093
.5 : 3,117,933
.5 : 3,117,934
.5 : 3,117,935
.5 : 3,125,534
.5 : 3,126,345
.5 : 3,126,346
.5 : 3,126,347
.5 : 3,129,184
.5 : 3,132,105
.5 : 3,133,023
.5 : 3,142,645
.5 : 3,146,205
.5 : 3,148,148
.5 : 3,148,149
.5 : 3,150,095
.5 : 3,152,082
.5 : 3,154,493
.5 : 3,155,622
.5 : 3,155,623
.5 : 3,156,650
.5 : 3,156,651
.5 : 3,162,603
.9 : 3,117,094
.9 : 3,144,411
63.5 : 3,141,850
67 : 3,126,348
3,130,163
68 : 3,129,185
75 : 3,121,692
3,147,223
3,149,077
3,153,632
3,156,652
3,159,580
78 : 3,118,841
3,129,186
3,146,206
3,156,653
79.4 : 3,152,083
88 : 3,133,884
95 : 3,120,378
3,156,654
96 : 3,154,494
98 : 3,163,606
99 : 3,128,250
3,130,164
3,130,165
3,154,495
3,154,496
3,161,597
106 : 3,118,842
3,134,738
3,142,646
3,150,096
107 : 3,145,179
109 : 3,156,655
110 : 3,130,166
118 : 3,146,207
121 : 3,150,097
122 : 3,155,624
135 : 3,122,508
3,123,565
3,154,497
136 : 3,138,556
3,138,557
3,147,244
137 : 3,145,178
3,145,180
3,149,078
3,151,084
138 : 3,133,024
3,144,412
139 : 3,123,566
143 : 3,147,224
147 : 3,124,534
3,146,208
3,161,598
151 : 3,140,260
152 : 3,150,098
3,152,993
3,156,656
3,159,581
153 : 3,124,535
3,124,536
3,124,537
3,133,885
3,159,582
155 : 3,129,187
161 : 3,140,261
170 : 3,163,607
171 : 3,162,604
180 : 3,148,150
3,154,498
181 : 3,130,167
182 : 3,130,168
3,135,696
3,155,625
184 : 3,141,851
3,152,084
186 : 3,130,169
187 : 3,142,647
188 : 3,123,567
3,146,209
.3 : 3,144,413
189 : 3,137,654
300 : 3,123,568
3,125,535
301.1 : 3,120,493
.1 : 3,121,048
.1 : 3,122,509
.1 : 3,124,538
.1 : 3,126,349
.1 : 3,129,188
.1 : 3,133,025
.1 : 3,135,697
.1 : 3,140,262
.1 : 3,141,852
.1 : 3,142,648
.1 : 3,143,509
.1 : 3,145,181
.1 : 3,145,182
.1 : 3,147,225
.1 : 3,148,151
.1 : 3,150,099
.1 : 3,150,100
.1 : 3,151,085
.1 : 3,151,086
.1 : 3,154,499
.1 : 3,154,500
.1 : 3,154,501
.1 : 3,157,601
.1 : 3,158,577
.1 : 3,159,583
.1 : 3,161,599
.1 : 3,161,600
.1 : 3,161,601
.1 : 3,162,605
.1 : 3,163,608
.1 : 3,163,609
.2 : 3,132,106
.2 : 3,137,655
.2 : 3,149,079
.2 : 3,150,101
301.3 : 3,125,536
.3 : 3,147,226
.4 : 3,124,539
.4 : 3,152,085
.4 : 3,159,584
.4 : 3,163,610
.6 : 3,133,026
.6 : 3,133,027
.6 : 3,140,999
.6 : 3,143,510
.6 : 3,152,086
.6 : 3,152,994
.6 : 3,152,995
.6 : 3,154,502
.6 : 3,157,602
.6 : 3,157,603
305 : 3,118,843
3,131,152
3,131,153
3,131,154
306 : 3,136,728
311.5 : 3,123,569
.5 : 3,126,350
313 : 3,118,844
3,128,251
3,139,406
3,152,996
316 : 3,159,585
3,161,602
317 : 3,147,227
321 : 3,127,354
331 : 3,148,152
3,148,153
344 : 3,148,154
3,150,102
351 : 3,132,107
354 : 3,133,886
356 : 3,132,108
359 : 3,119,779
3,125,537
360 : 3,141,000
368 : 3,135,698
387 : 3,151,087
389 : 3,133,028
3,141,001
392 : 3,127,355
395 : 3,138,558
408 : 3,119,780
3,159,586
412 : 3,121,693
3,135,699
3,140,263
3,140,264
3,147,228
3,150,103
413 : 3,117,936
3,122,510
3,122,511
3,148,155
3,161,603
414 : 3,117,095
3,117,937
415 : 3,121,694
3,122,512
3,147,229
3,150,104
416 : 3,141,853
3,150,105
3,151,088
417 : 3,135,700
418 : 3,153,633
420 : 3,121,695
3,148,156
428 : 3,131,155
3,136,729
3,141,854
3,150,106
429 : 3,117,938
3,121,063
3,121,064
3,128,252
3,135,701
3,135,702
3,139,407
3,147,230
3,152,087
3,152,088
3,152,089
3,153,634
3,155,626
3,161,604
3,163,611
430 : 3,123,571
431 : 3,123,572
3,149,080
3,157,604
3,159,587
432 : 3,117,096
3,153,635
435 : 3,132,109
436 : 3,158,578
437 : 3,144,414
3,144,415
3,149,081
437 : 3,149,082
438 : 3,148,157
3,163,612
439 : 3,137,656
3,147,231
440 : 3,132,110
3,156,657
441 : 3,121,696
3,124,540
3,129,189
3,140,925
3,150,107
3,163,613
442 : 3,120,494
3,123,573
3,129,190
3,138,559
3,152,090
443 : 3,117,939
447 : 3,123,574
3,138,560
448 : 3,120,495
450 : 3,123,575
3,130,170
3,148,158
3,148,159
452 : 3,137,658
3,159,588
453 : 3,118,845
3,124,541
454 : 3,125,538
455 : 3,120,496
3,125,539
3,131,156
3,146,210
3,158,579
3,161,605
464 : 3,132,111
3,152,091
465 : 3,117,097
466 : 3,133,029
3,139,408
3,143,511
3,152,092
3,162,606
470 : 3,152,997
3,152,998
474 : 3,135,703
476 : 3,144,416
477 : 3,145,183
3,155,627
3,162,607
478 : 3,122,513
3,123,576
3,126,351
3,126,352
3,133,887
3,137,657
3,138,561
3,142,649
3,143,512
3,145,184
3,148,160
3,152,093
3,153,636
3,161,606
501 : 3,128,253
3,133,888
3,135,704
502 : 3,141,855
3,148,161
503 : 3,134,739
514 : 3,154,503
519 : 3,121,065

Class 253

1 : 3,125,324
3,133,724
2 : 3,123,338
3,128,988
3,140,853
3,141,650
3,147,951
3,157,384
3 : 3,128,079
23 : 3,151,840
31 : 3,130,955
3,132,839
3,138,362
3,140,854
3,146,989
3,146,990
3,146,991
39 : 3,120,374
3,121,555
3,132,840
3,139,263
3,141,651
3,146,992
3,147,952
3,159,379
.1 : 3,151,841
.1 : 3,163,395

Class 253—Con.

39.15: 3,135,496
.15: 3,149,819
.15: 3,163,396
40 : 3,116,908
52 : 3,137,477
3,149,820
3,160,392
3,162,421
59 : 3,128,989
3,145,970
65 : 3,139,264
3,143,334
66 : 3,138,363
69 : 3,156,447
77 : 3,119,595
3,129,921
3,132,841
3,132,842
3,137,478
3,157,385
3,158,353
3,163,397
78 : 3,129,922
3,142,475
117 : 3,139,265
141 : 3,140,855
142 : 3,140,074
148 : 3,162,422

Class 254

2 : 3,117,764
3,120,945
3,121,556
3,130,956
3,140,075
4 : 3,131,907
3,144,239
3,157,386
7 : 3,156,448
8 : 3,154,290
3,159,380
10 : 3,117,765
3,129,923
3,136,526
3,147,953
.5 : 3,132,843
11 : 3,143,335
13 : 3,152,787
17 : 3,134,573
18 : 3,137,479
24 : 3,128,080
3,155,371
25 : 3,134,574
26 : 3,138,364
3,150,858
28 : 3,126,195
3,162,423
29 : Re.25,680
3,119,597
3,123,339
3,128,990
3,129,924
3,163,398
30 : 3,155,372
45 : 3,155,373
47 : 3,139,266
3,158,354
50.3 : 3,130,957
.3 : 3,157,387
.4 : 3,125,325
51 : 3,125,326
3,148,862
3,150,859
67 : 3,151,842
78 : 3,116,909
3,149,821
79 : 3,120,946
3,153,529
83 : 3,146,993
86 : 3,117,766
3,136,527
3,149,822
3,161,401
89 : 3,131,908
93 : 3,119,598
3,160,393
98 : 3,127,150
100 : 3,159,381
101 : 3,118,651
102 : 3,154,291
103 : 3,135,497
104 : 3,139,267
105 : 3,140,076
3,154,292
3,159,382
106 : 3,136,528
108 : 3,141,652
126 : 3,116,910
127 : 3,145,015
131 : 3,122,354
.5 : 3,119,596
132 : 3,138,365
3,152,788
133 : 3,145,971
134.3 : Re.25,549
.3 : 3,121,557
.3 : 3,130,958
.3 : 3,133,725
.3 : 3,134,575
.3 : 3,136,529
.3 : 3,140,077
.3 : 3,140,856
.3 : 3,145,016
.3 : 3,145,972
.3 : 3,145,973
.3 : 3,146,994
.3 : 3,156,449
.3 : 3,160,394
.4 : 3,119,599
.4 : 3,119,600
.4 : 3,120,947
.5 : 3,144,240
137 : 3,119,601
139 : 3,123,340
3,128,081
3,141,653
.1 : 3,119,504
.1 : 3,140,857
.1 : 3,141,654
.1 : 3,152,789
150 : 3,120,375
3,145,974
164 : 3,127,151
167 : 3,139,268
3,163,399
3,163,400
172 : 3,150,860
3,162,424
173 : 3,118,652
3,158,355
3,158,356
175.3 : 3,117,767
.5 : 3,131,909
.7 : 3,148,863
.7 : 3,162,425
185 : 3,128,991
186 : 3,124,336
190 : 3,150,861
192 : 3,132,844
195 : 3,128,992

Class 256

1 : 3,141,655
2 : 3,155,374
10 : 3,146,995
24 : 3,120,376
3,136,530
3,140,858
26 : 3,116,911
65 : 3,156,450
68 : 3,157,388
72 : 3,122,355

Class 258

1.2 : 3,158,357
.2 : 3,163,401

Class 259

1 : 3,129,925
3,138,366
3,140,859
3,146,996
3,152,790
3,152,791
3,153,530
3,154,293
3,157,389
3,162,426
2 : 3,132,845
3,139,269
3,147,954
3 : 3,131,910
3,132,846
3,133,726
3,138,367
3,160,395
4 : 3,116,912
3,120,377
3,128,993
3,128,994
3,129,926
3,145,975
3,147,955
3,148,864
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3,151,167
3,153,066
3,157,703
590 : 3,134,817
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3,153,672
3,155,729
591 : 3,123,647
3,126,414
3,128,312
3,146,269
3,160,665
592 : 3,143,573
3,150,187
3,154,585
593 : 3,118,947
3,122,587
3,137,732
3,153,068
3,155,730
3,161,684
597 : 3,119,874
3,131,223
3,133,968
3,144,488
3,149,167
3,154,586
598 : 3,145,233
3,150,188
599 : 3,130,233
600 : 3,154,587
601 : 3,122,588
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3,150,189
3,153,069
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602 : 3,132,181
604 : 3,118,948
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606 : 3,128,313
3,137,736
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.5 : 3,117,164
.5 : 3,117,165
.5 : 3,118,950
.5 : 3,118,951
.5 : 3,119,878
.5 : 3,121,117
.5 : 3,121,118
.5 : 3,121,119
.5 : 3,124,616
.5 : 3,124,617
.5 : 3,126,415
.5 : 3,126,416
.5 : 3,129,249
.5 : 3,131,224
.5 : 3,131,225
.5 : 3,133,121
.5 : 3,133,969
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.5 : 3,135,802
.5 : 3,135,803
.5 : 3,137,733
.5 : 3,137,734
.5 : 3,139,459
.5 : 3,142,706
.5 : 3,142,707
.5 : 3,145,234
.5 : 3,148,219
.5 : 3,151,168
.5 : 3,151,169
.5 : 3,152,190
.5 : 3,155,731
.5 : 3,155,732
.5 : 3,158,652
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.5 : 3,159,681
.5 : 3,160,666
.5 : 3,161,686
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.5 : 3,163,679
607 : 3,118,952
3,124,618
3,125,604

607 : 3,133,971
3,146,270
3,146,271
3,159,682
608 : 3,141,045
3,143,574
609 : 3,118,002
3,119,877
3,124,619
3,132,182
3,133,972
3,134,818
3,135,804
3,137,735
3,141,907
3,144,489
3,155,733
3,156,731
3,159,683
652.5 : 3,118,955
.5 : 3,120,567
.5 : 3,124,620
.5 : 3,128,315
.5 : 3,152,191
653 : 3,130,238
3,132,185
3,154,592
3,155,735
3,158,658
.1 : 3,142,708
.1 : 3,156,732
.4 : 3,149,170
.5 : 3,118,005
.5 : 3,148,223
.6 : 3,140,320
.7 : 3,133,125
.7 : 3,134,821
.7 : 3,157,707
.8 : 3,131,226
.8 : 3,146,275
654 : 3,120,568
3,132,186
655 : 3,149,171
3,149,172
656 : 3,122,591
3,125,607
3,125,608
3,125,609
3,142,709
3,145,236
658 : 3,138,643
662 : 3,126,419
665 : 3,122,592
3,140,321
3,143,577
3,155,736
3,161,689
666 : 3,124,621
3,126,420
3,128,316
3,130,239
3,131,227
3,131,228
3,143,578
3,144,491
3,146,276
3,148,224
3,149,173
3,149,174
3,150,195
3,151,172
3,151,173
3,153,100
3,155,737
3,157,708
3,158,660
3,161,690
3,161,691
.5 : 3,117,167
.5 : 3,138,644
.5 : 3,139,460
667 : 3,122,593
3,127,452
3,130,240
3,136,823
3,140,322
3,153,678
668 : 3,117,168
3,119,886
3,120,569
3,121,122
3,123,649
3,132,187
3,132,188
3,151,174
3,152,192
3,153,101
3,153,675
3,153,676
3,156,739
3,159,687
3,161,692
3,161,693
669 : 3,118,006
3,148,225

645 : 3,132,184
3,149,169
3,153,099
3,157,706
3,160,669
646 : 3,140,319
3,153,674
647 : 3,162,692
648 : 3,122,590
3,150,194
3,154,591
649 : 3,129,254
3,148,221
650 : 3,135,809
3,148,222
3,158,657
651 : 3,121,753
3,136,822

Class 260—Con.

669 : 3,153,102
3,163,681
670 : 3,145,237
3,149,175
671 : 3,118,956
3,121,123
3,123,650
3,126,421
3,126,422
3,126,423
3,129,255
3,129,256
3,129,264
3,131,229
3,131,230
3,132,189
3,134,822
3,136,824
3,153,103
3,153,677
3,160,670
672 : 3,121,754
3,145,238
3,149,176
3,150,196
3,151,175
3,160,671
673 : 3,125,610
3,126,424
3,149,177
.5 : 3,119,881
.5 : 3,150,197
.5 : 3,151,176
674 : 3,121,756
3,126,425
3,131,231
3,133,126
3,148,226
3,151,177
3,155,738
3,161,694
3,162,693
676 : 3,121,757
3,131,232
3,134,823
677 : 3,119,882
3,121,124
3,125,611
3,128,317
3,129,265
3,130,241
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3,142,710
3,146,277
3,150,198
3,150,199
3,150,200
3,150,201
3,151,178
3,152,193
3,153,679
3,155,739
678 : 3,142,711
3,147,312
679 : 3,129,266
3,131,233
3,135,810
3,140,323
3,148,227
3,152,194
3,153,104
3,156,733
3,156,734
3,161,695
680 : 3,117,169
3,118,007
3,119,111
3,152,195
3,156,735
3,159,688
681 : 3,131,234
3,142,712
3,146,278
3,157,710
.5 : 3,152,196
682 : 3,121,758
3,124,622
683 : 3,154,593
3,154,594
3,161,696
.15: 3,119,884
.15: 3,121,125
.15: 3,125,612
.15: 3,128,318
.15: 3,130,244
.15: 3,133,127
.15: 3,134,824
.15: 3,137,739
.15: 3,149,179
.15: 3,151,181
.15: 3,154,595
683.15: 3,155,741
.15: 3,156,736
.15: 3,157,712
.15: 3,159,689
.15: 3,160,672
.15: 3,161,697
.2 : 3,150,202
.2 : 3,151,179
.3 : 3,119,883
.3 : 3,126,426
.3 : 3,148,228
.3 : 3,151,180
.44: 3,136,825
.46: 3,121,759
.46: 3,133,975
.48: 3,155,742
.48: 3,158,661
.58: 3,133,128
.59: 3,150,204
.59: 3,160,673
.59: 3,160,674
.61: 3,138,645
.62: 3,121,126
.62: 3,162,694
.63: 3,154,596
.65: 3,128,319
.65: 3,142,713
.65: 3,146,279
.65: 3,149,180
.65: 3,150,205
.65: 3,156,737
.68: 3,131,235
.74: 3,161,698
.75: 3,119,885
.75: 3,150,206
.75: 3,152,197
.75: 3,156,738
.75: 3,158,662
.76: 3,143,579
.9 : 3,149,178
.9 : 3,150,203
.9 : 3,155,740
.9 : 3,157,711
.9 : 3,163,682
723 : 3,158,663
824 : 3,154,597
826 : 3,160,675
827 : 3,150,207
834 : 3,156,740
3,160,676
836 : 3,155,743
837 : 3,147,313
3,147,314
3,147,315
3,154,598
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846 : 3,147,316
847 : 3,151,097
3,159,597
848 : 3,149,181
857 : 3,160,677
861 : 3,157,709
3,160,678
3,160,679
3,163,627
864 : 3,159,690
868 : 3,151,182
869 : 3,151,183
873 : 3,162,695
874 : 3,153,680
878 : 3,155,744
3,162,696
3,162,697
879 : 3,149,182
880 : 3,151,184
881 : 3,156,741
883 : 3,129,210
884 : 3,154,600
3,157,713
888 : 3,158,664
889 : 3,151,185
3,163,683
890 : 3,147,317
3,147,318
891 : 3,151,186
894 : 3,150,209
3,159,691
895 : 3,156,742
897 : 3,149,183
3,153,681
3,156,743
3,156,744
3,156,745
3,158,665
3,160,680
3,162,698
898 : 3,157,714
3,161,699
899 : 3,155,745

Class 261

1 : 3,118,008
3,143,580
1 : 3,157,715
2 : 3,126,427
3 : 3,151,187
16 : 3,134,825
3,134,827
17 : 3,125,613
22 : 3,121,127
3,136,826
23 : 3,149,184
24 : 3,117,170
3,118,957
3,123,651
3,137,740
25 : 3,141,909
27 : 3,157,716
3,161,700
28 : 3,123,652
3,131,236
29 : 3,128,320
3,130,245
3,130,246
3,134,826
3,147,319
3,151,188
3,155,746
3,155,747
30 : 3,132,190
32 : 3,133,976
35 : 3,118,009
3,160,681
3,160,682
36 : 3,119,887
3,127,453
3,127,454
39 : 3,133,977
3,159,692
41 : 3,132,191
3,138,646
3,141,048
42 : 3,133,129
3,140,324
3,163,684
44 : 3,149,185
50 : 3,130,247
51 : 3,147,320
52 : 3,151,189
59 : 3,132,192
60 : 3,136,827
64 : 3,151,190
69 : 3,160,683
3,160,684
70 : 3,139,462
87 : 3,118,958
93 : 3,154,601
94 : 3,122,594
96 : 3,150,210
97 : 3,126,428
3,143,581
3,163,685
98 : 3,136,828
99 : 3,129,267
104 : 3,129,268
3,136,829
108 : 3,141,910
112 : 3,138,647
3,145,239
3,150,211
114 : 3,125,614
3,143,582
3,146,280
3,156,746
3,162,699
3,162,700
3,162,701
118 : 3,158,666
121 : 3,130,248
123 : 3,133,130
3,154,602
3,162,702
124 : 3,153,682
3,160,685
134 : 3,132,193
142 : 3,128,321
153 : 3,131,237

Class 262

1 : 3,136,534
3,137,483
2 : 3,132,852
3 : 3,130,960
3,131,914
3,135,501
7 : 3,134,580
8 : 3,118,657
3,134,581
3,137,484
9 : 3,128,998
14 : 3,129,929
3,133,730
19 : 3,121,558
26 : 3,119,602
3,131,916
3,135,502
27 : 3,136,535
29 : 3,116,914
33 : 3,127,153
3,131,915
152 : 3,127,390

Class 263

2 : 3,149,825
3 : 3,150,864
3,152,794
3,163,406
3,163,407
.3 : 3,119,604
4 : 3,158,363
6 : 3,119,603
3,123,344
3,127,154
3,130,961
3,137,485
3,144,243
3,149,826
3,156,453
3,162,429
3,162,430
7 : 3,131,917
8 : 3,155,378
10 : 3,122,358
15 : 3,125,327
3,129,930
3,131,918
3,148,868
3,161,406
19 : Re.25,626
3,116,915
3,117,770
3,120,380
3,120,949
3,122,359
3,124,337
3,126,198
3,133,731
3,134,582
3,134,583
3,142,479
3,145,978
3,150,865
3,151,850
3,153,532
3,156,454
3,159,385
3,160,401
20 : 3,121,559
3,129,931
3,135,503
21 : 3,118,658
3,136,536
3,139,272
3,140,862
3,140,863
3,145,019
3,146,998
3,155,379
3,156,455
22 : 3,131,919
26 : 3,127,155
27 : 3,129,932
3,145,981
28 : 3,125,328
3,129,933
3,144,244
3,158,364
3,160,402
29 : 3,140,864
3,142,480
30 : 3,140,865
32 : 3,152,795
3,155,380
3,159,386
3,162,431
33 : 3,116,916
3,124,338
3,132,853
3,135,504
3,139,273
3,141,657
3,145,979
3,152,796
3,157,390
3,157,391
34 : 3,144,245
36 : 3,119,605
3,142,481
3,145,980
3,154,298
3,160,403
37 : 3,138,372
40 : 3,119,606
3,151,851
3,154,299
3,159,387
41 : 3,142,482
3,160,404
42 : 3,137,486
43 : 3,127,156
3,132,854
3,147,960
46 : 3,123,345
47 : 3,124,339
3,125,329
3,141,658
3,145,982
3,149,827
3,151,852
3,156,456
3,160,405
3,163,408
48 : 3,131,920
49 : 3,129,934
3,142,483
51 : 3,134,584
3,135,505
52 : 3,133,131
3,134,828
53 : 3,127,455
3,139,463

Class 264

1 : 3,124,623
3,125,615
3,131,238
3,155,748
2 : 3,153,105
3 : 3,137,741
3,148,229
3,155,749
4 : 3,160,686
13 : 3,124,624
3,150,212
15 : 3,154,603
20 : 3,126,429
21 : 3,121,128
3,122,595
3,124,625
3,137,742
3,146,281
3,156,747
3,161,701
23 : 3,161,702
25 : 3,160,687
27 : 3,142,714
28 : 3,153,685
29 : 3,126,430
30 : 3,148,230
32 : 3,118,010
3,139,464
3,161,703
33 : 3,152,198
36 : 3,157,717
37 : 3,132,194
3,137,743
38 : 3,151,191
39 : 3,146,282
40 : 3,125,616
3,126,431
3,148,231
3,150,213
3,155,750
3,161,704
45 : 3,120,570
3,121,129
3,124,626
3,129,269
3,133,978
3,137,744
3,152,199
3,154,604
3,155,751
3,155,753
3,158,667
3,163,686
47 : 3,117,171
3,144,492
48 : 3,156,748
49 : 3,133,132
51 : 3,121,760
3,139,466
3,144,493
3,162,703
53 : 3,121,130
3,126,432
3,145,240
3,147,321
3,150,214
3,151,192
3,154,605
3,159,693
3,159,694
3,160,688
3,162,704
3,162,705
54 : 3,124,627
3,127,457
3,129,270
3,137,745
3,154,606
3,154,607
54 : 3,160,689
3,163,687
56 : 3,129,271
3,163,688
57 : 3,157,718
59 : 3,133,133
63 : 3,125,618
3,131,239
69 : 3,139,465
3,141,911
73 : 3,137,746
76 : 3,134,829
3,145,241
78 : 3,153,106
3,155,754
80 : 3,145,242
3,153,683
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85 : 3,129,272
86 : 3,133,134
87 : 3,153,107
90 : 3,163,689
92 : 3,137,747
3,157,719
3,161,705
93 : 3,140,325
3,159,695
3,159,696
94 : 3,120,571
3,151,193
3,159,697
95 : 3,121,761
3,141,912
3,144,494
3,155,752
3,157,720
96 : 3,117,172
97 : 3,137,748
3,162,706
98 : 3,122,596
3,124,625
3,125,619
3,127,458
3,145,243
3,162,707
3,163,690
99 : 3,121,762
3,123,653
3,129,694
3,131,706
103 : 3,124,628
3,161,706
108 : 3,148,232
109 : 3,155,755
111 : 3,162,708
114 : Re.25,587
115 : 3,150,215
3,152,200
116 : 3,158,668
117 : 3,140,326
3,161,707
118 : 3,152,201
119 : 3,140,327
126 : 3,123,654
3,134,830
129 : 3,130,249
137 : 3,119,888
138 : 3,141,049
143 : 3,121,132
148 : 3,161,708
153 : 3,158,669
154 : 3,127,459
3,149,186
156 : 3,146,283
157 : 3,157,721
161 : 3,134,831
3,148,233
3,150,216
3,156,749
163 : 3,160,690
167 : 3,134,832
3,152,202
3,163,691
168 : 3,118,011
3,154,609
169 : 3,154,610
174 : 3,143,583
175 : 3,141,050
176 : 3,118,012
3,121,763
3,123,655
3,125,620
3,126,433
3,135,811
3,150,217
178 : 3,126,434
3,155,756
3,156,750
181 : 3,121,764
182 : 3,121,765
3,124,629
3,129,273
3,133,135
182 : 3,135,812
3,147,322
184 : 3,136,830
3,154,612
3,154,613
188 : 3,154,614
191 : 3,126,435
3,151,194
3,153,687
198 : 3,139,467
200 : 3,133,136
3,133,979
202 : 3,118,959
3,121,766
209 : 3,135,813
210 : 3,117,173
3,134,833
3,141,913
3,143,584
3,146,284
3,159,698
3,161,709
211 : 3,147,323
3,148,234
212 : 3,152,203
213 : 3,142,715
216 : 3,161,710
219 : 3,141,051
3,141,052
3,156,751
220 : 3,141,053
225 : 3,136,831
3,150,218
228 : 3,162,709
229 : 3,122,597
230 : Re.25,624
3,118,960
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231 : 3,152,204
233 : 3,133,137
242 : 3,140,329
3,154,615
244 : 3,137,749
247 : 3,122,598
248 : 3,144,495
249 : 3,152,205
3,163,692
250 : Re.25,534
254 : 3,147,324
255 : 3,136,832
3,141,054
257 : 3,131,241
3,133,980
3,137,750
258 : 3,150,219
259 : 3,149,187
3,150,220
260 : 3,147,325
261 : 3,120,572
3,133,981
262 : 3,139,469
3,151,195
263 : 3,117,174
266 : 3,146,285
3,154,616
3,154,617
3,157,722
267 : 3,149,188
272 : 3,132,195
3,132,196
3,142,716
274 : 3,146,286
275 : 3,141,914
276 : 3,124,630
277 : 3,120,573
3,136,833
278 : 3,150,221
284 : 3,157,723
285 : 3,143,585
286 : 3,155,757
288 : 3,140,330
3,157,724
289 : 3,139,470
3,161,711
290 : 3,124,631
3,124,632
3,133,138
3,150,223
292 : 3,121,767
293 : 3,140,331
3,158,670
296 : 3,147,326
299 : 3,122,599
3,154,618
301 : 3,135,814
3,148,235
302 : 3,151,196
310 : 3,160,691
3,161,712
314 : 3,128,322
315 : 3,127,460
318 : 3,150,222

319 : 3,154,619
320 : 3,159,699
321 : 3,123,656
3,125,621
3,159,700
324 : 3,148,236
325 : 3,127,461
328 : 3,132,197
3,145,244
3,159,701
329 : 3,140,332
3,146,287
3,163,693
330 : 3,141,915
331 : 3,121,768
3,131,242
334 : 3,131,243
336 : 3,137,751
339 : 3,154,620
340 : 3,134,834
345 : 3,156,752
349 : 3,153,688

Class 266

2 : 3,128,323
4 : 3,137,752
5 : 3,130,250
3,150,224
3,154,621
3,163,694
6 : 3,149,189
3,151,197
10 : 3,149,190
3,159,702
13 : 3,141,916
3,149,191
19 : 3,159,703
20 : 3,154,622
21 : 3,131,244
3,149,192
23 : 3,123,657
3,139,471
3,149,193
3,153,109
24 : 3,117,175
3,147,327
3,158,671
25 : 3,151,198
27 : 3,139,472
30 : 3,151,199
31 : 3,143,586
32 : 3,130,251
33 : 3,123,658
3,141,055
3,149,194
3,159,704
34 : 3,131,245
3,136,834
3,137,753
3,145,245
3,146,288
3,148,237
3,152,206
35 : 3,119,889
3,130,252
3,134,835
3,138,648
36 : 3,144,496
3,163,695
3,163,696
38 : 3,153,110
39 : 3,128,324
41 : Re.25,528
42 . 3,121,769
43 : 3,140,333
3,141,917
3,148,238
3,151,200

Class 267

1 : 3,116,917
3,117,771
3,119,607
3,120,381
3,120,950
3,120,951
3,123,346
3,123,347
3,124,340
3,124,341
3,124,342
3,124,343
3,125,330
3,125,331
3,127,157
3,128,086
3,128,999
3,130,962
3,130,963
3,130,964
3,131,921
3,134,585
1 : 3,134,586
3,135,506
3,137,487
3,140,080
3,140,081
3,143,337
3,143,338
3,145,020
3,145,983
3,146,999
3,147,961
3,147,962
3,148,869
3,148,870
3,149,828
3,150,866
3,151,853
3,152,797
3,152,798
3,155,381
3,156,457
3,157,392
3,159,388
3,161,407
3,161,408
3,163,409
3,163,410
2 : 3,140,082
3 : 3,140,866
8 : 3,150,867
3,155,382
3,157,393
3,160,406
3,163,411
11 : 3,141,659
15 : 3,125,332
3,139,274
3,140,083
3,157,394
3,163,412
16 : 3,123,348
19 : 3,157,395
20 : 3,135,507
3,139,275
21 : 3,120,952
3,121,560
3,135,508
22 : 3,158,365
30 : 3,147,963
3,154,300
33 : 3,128,087
34 : 3,149,829
3,162,432
35 : 3,118,659
3,160,407
47 : 3,145,984
50 : 3,159,389
52 : 3,144,246
3,150,868
3,151,854
54 : 3,117,772
3,137,488
57 : 3,118,660
3,121,561
3,150,869
3,159,390
60 : 3,123,349
3,123,350
3,132,855
3,141,660
3,141,661
3,151,855
63 : 3,120,382
3,144,247
3,147,964
3,159,391
64 : 3,121,562
3,127,158
3,128,088
3,128,089
3,140,084
3,140,085
3,145,985
3,147,965
3,147,966
3,148,871
3,149,830
3,149,831
3,151,856
3,154,301
3,157,396
65 : 3,116,918
3,130,965
3,147,967
3,156,458
3,162,433
70 : 3,156,459
71 : 3,123,351
3,151,857
75 : 3,117,773
80 : 3,117,774
84 : 3,122,360
85 : 3,138,373
91 : 3,148,872
102 : 3,145,986
3,156,460
103 : 3,137,489
104 : 3,145,987
105 : 3,147,968
107 : 3,131,924
3,143,339
110 : 3,117,775
3,118,661
3,127,159
3,137,490
3,156,461
111 : 3,129,935
3,140,086

Class 268

3 : 3,124,344
3,141,662
3,145,988
3,154,302
3,160,408
18 : 3,131,922
30 : 3,131,923
3,151,858
33 : 3,136,537
3,147,000
34 : 3,129,936
39 : 3,136,538
46 : 3,137,491
50 : 3,131,925
58 : 3,154,303
59 : 3,147,001
62 : 3,150,208
63 : 3,127,160
65 : 3,145,021
74 : 3,119,608
108 : 3,139,276
109 : 3,125,333
121 : 3,141,663
124 : 3,125,334
126 : 3,141,664
3,151,859
3,159,392
127 : 3,143,340
327 : 3,127,147

Class 269

2 : 3,129,000
7 : 3,128,090
19 : 3,123,352
21 : 3,116,919
3,156,462
22 : 3,140,087
24 : 3,131,926
3,147,002
25 : 3,145,022
40 : 3,121,563
41 : 3,137,492
43 : 3,151,860
47 : 3,154,304
49 : 3,159,393
56 : 3,127,161
58 : 3,155,383
60 : 3,124,345
70 : 3,124,346
71 : 3,148,873
74 : 3,129,937
3,152,799
3,159,394
82 : 3,123,353
86 : 3,157,397
91 : 3,124,347
3,131,927
3,150,870
101 : 3,155,384
157 : 3,127,162
3,129,938
167 : 3,147,003
218 : 3,121,564
224 : 3,131,928
228 : 3,149,832
233 : 3,147,004
236 : 3,155,385
237 : 3,147,005
240 : 3,143,341
252 : 3,151,861
254 : 3,117,776
3,159,395
273 : 3,151,862
296 : 3,118,662
3,139,277
303 : 3,142,484
322 : 3,137,493
327 : 3,128,091

Class 270

1 : 3,152,800
3,154,305
5 : 3,125,335
18 : 3,147,006
31 : 3,141,665
31 : 3,145,989
40 : 3,122,361
41 : 3,160,409
52 : 3,147,969
.5 : 3,143,342
54 : 3,128,092
3,130,966
56 : 3,147,007
57 : 3,122,362
3,127,163
3,162,434
58 : 3,122,363
3,127,164
3,137,494
3,144,248
3,152,801
3,158,366
61 : 3,116,920
3,124,348
3,133,732
3,148,874
62 : 3,134,587
66 : 3,127,165
68 : 3,150,871
3,157,398
72 : 3,116,921
73 : 3,124,349
3,141,666
3,163,413
77 : 3,144,249
79 : 3,120,383
3,124,350
3,150,872
80 : 3,148,875
81 : 3,117,777
83 : 3,160,410
86 : 3,147,008
3,147,009

Class 271

2 : 3,144,250
3,153,533
3,162,435
3 : 3,116,922
3,125,336
4 : 3,140,088
3,160,411
5 : 3,132,856
3,140,089
6 : 3,137,495
10 : 3,134,588
3,149,833
11 : 3,127,166
12 : 3,126,199
3,137,496
3,148,876
18 : 3,137,497
3,151,863
26 : 3,126,200
3,131,929
3,136,539
3,140,867
3,154,306
3,155,386
3,158,367
27 : 3,127,167
3,163,414
29 : 3,127,168
3,131,930
30 : 3,134,589
32 : 3,126,201
34 : 3,124,351
3,159,396
3,159,397
35 : 3,118,663
41 : 3,145,023
47 : 3,149,834
48 : 3,131,931
51 : 3,116,923
3,132,857
52 : 3,148,877
53 : 3,158,368
54 : 3,156,463
55 : 3,136,540
57 : 3,147,970
3,150,873
3,158,369
59 : 3,140,868
3,143,343
61 : 3,140,090
3,153,534
62 : 3,123,355
3,125,337
3,130,967
3,137,498
3,149,835
3,153,535
64 : 3,128,093
3,160,412
3,162,436
68 : 3,116,924
3,120,384
3,132,858
68 : 3,136,541
3,143,344
3,147,971
3,156,464
3,159,398
3,162,437
3,163,415
71 : 3,119,609
3,124,352
3,137,499
3,139,278
3,154,307
3,162,438
3,162,439
72 : 3,147,010
73 : 3,122,364
74 : 3,123,354
3,138,374
3,141,667
3,155,387
79 : 3,148,878
86 : 3,117,778
3,135,509
3,150,874
3,160,413
87 : 3,118,664
3,131,932
3,148,879
88 : 3,139,279
3,140,091
3,149,836
89 : 3,118,665
3,159,399

Class 272

1 : 3,116,925
3,125,338
3,137,500
3,137,501
3,138,375
3,145,990
4 : 3,119,610
8 : 3,126,202
3,129,001
3,132,859
27 : 3,139,280
30 : 3,117,779
3,136,542
31 : 3,119,611
3,136,543
3,136,544
3,141,668
32 : 3,125,339
33 : 3,119,612
3,127,169
3,127,170
3,141,669
3,152,802
3,155,388
36 : 3,140,092
3,153,536
39 : 3,147,972
44 : 3,155,389
52 : 3,132,860
3,135,510
53.1 : 3,149,837
.2 : 3,138,376
.2 : 3,147,973
.2 : 3,155,390
55 : 3,140,869
56 : 3,117,780
3,151,864
.5 : 3,120,385
.5 : 3,141,670
57 : 3,134,590
3,134,591
3,142,485
3,156,465
58 : 3,119,613
3,120,953
3,120,954
3,127,171
3,130,968
3,134,592
60 : 3,120,955
63 : 3,120,386
66 : 3,125,340
68 : 3,129,939
3,132,861
73 : 3,125,341
74 : 3,140,871
75 : 3,118,666
3,138,377
76 : 3,162,440
79 : 3,117,781
3,118,667
3,119,614
3,128,094
3,129,940
80 : 3,124,353
3,128,095
3,162,441
3,162,442
81 : 3,117,782
84 : 3,118,668
85 : Re.25,677
3,130,969
3,140,870
87 : 3,145,024

Class 273

1 : 3,118,669
3,134,593
3,136,545
3,139,281
3,151,865
3,158,370
3,159,400
.5 : 3,137,502
.5 : 3,137,503
.5 : 3,160,414
11 : 3,140,093
19 : 3,131,933
25 : 3,126,203
26 : 3,118,670
3,122,365
3,136,546
3,137,504
3,139,282
3,152,803
3,153,537
3,157,399
30 : 3,117,783
32 : 3,120,388
3,136,547
33 : 3,141,671
42 : 3,118,671
43 : 3,117,784
3,122,366
3,123,356
3,123,357
3,124,354
3,132,862
3,132,863
3,138,378
3,138,379
3,142,486
3,149,838
3,153,538
47 : 3,119,615
3,125,342
49 : 3,127,172
52 : 3,117,785
54 : 3,117,786
3,119,616
3,120,956
3,124,355
3,140,872
3,143,345
3,145,025
3,148,880
3,149,839
3,156,466
3,158,371
3,159,401
3,163,416
55 : 3,144,251
58 : 3,118,672
3,119,617
63 : 3,120,957
3,123,358
3,129,002
3,137,505
3,148,881
65 : 3,119,618
72 : 3,116,926
3,129,003
73 : 3,162,443
80.3 : 3,140,094
81.3 : 3,123,359
.5 : 3,140,873
82 : 3,121,565
3,138,380
3,141,672
3,147,974
3,147,975
3,152,804
3,159,402
85 : 3,118,673
3,130,970
86 : 3,120,389
3,129,941
87.2 : 3,163,417
88 : 3,133,733
90 : 3,148,882
93 : 3,124,356
94 : 3,123,360
95 : 3,120,387
3,120,958
3,133,734
3,138,381
97 : 3,148,883
3,157,400
3,161,409
98 : 3,126,204
101 : 3,117,787
101 : 3,127,173
3,130,971
102 : 3,118,674
3,163,418
.2 : 3,128,096
.2 : 3,128,097
.2 : 3,151,866
.2 : 3,158,372
.2 : 3,160,415
.4 : 3,122,367
104 : 3,119,619
105 : 3,134,594
3,145,992
3,163,419
.2 : 3,140,874
.2 : 3,163,420
.3 : 3,135,511
.3 : 3,143,346
106 : 3,163,421
.5 : 3,138,382
.5 : 3,138,383
.5 : 3,147,011
.5 : 3,147,976
.5 : 3,150,875
.5 : 3,161,410
.5 : 3,162,444
108 : 3,118,675
3,138,384
3,145,991
109 : 3,118,676
3,135,512
3,137,506
110 : 3,135,513
3,157,401
115 : 3,134,595
118 : 3,158,373
121 : 3,120,390
3,122,368
122 : 3,119,620
123 : 3,120,391
3,136,548
3,141,673
126 : 3,135,514
3,147,977
3,156,467
127 : 3,132,864
128 : 3,117,788
129 : 3,149,840
3,163,422
130 : 3,117,789
3,124,357
3,126,205
3,127,174
3,144,252
3,145,993
3,149,841
3,149,842
3,152,805
131 : 3,121,566
3,130,972
3,155,391
132 : 3,127,175
3,148,884
134 : 3,117,790
3,124,358
3,130,973
3,148,885
3,156,468
3,163,423
135 : 3,116,927
3,152,806
3,156,469
3,159,403
3,163,424
136 : 3,116,928
3,128,098
3,129,942
3,131,934
3,148,886
3,149,843
3,163,425
137 : 3,140,876
138 : 3,138,385
139 : 3,127,176
141 : 3,117,791
3,135,515
3,136,549
3,149,844
142 : 3,128,099
3,136,550
3,136,551
3,136,552
3,141,674
3,145,994
3,155,392
3,163,426
143 : 3,129,004
144 : 3,118,677
3,140,875
145 : 3,119,621
3,124,359
147 : 3,143,347
149 : 3,131,935
3,147,978

Class 273—Con.

150 : 3,159,404
152.1 : 3,143,348
.2 : 3,159,405
153 : 3,116,929
3,128,100
157 : 3,151,867
163 : 3,118,678
165 : 3,147,012
167 : 3,138,386
171 : 3,133,735
3,143,349
173 : 3,134,596
176 : 3,129,943
3,138,387
3,156,470
3,156,471
179 : 3,134,597
3,142,487
183 : 3,138,388
185 : 3,122,369
186 : 3,125,343
3,126,206
3,136,553
3,137,507
187 : 3,141,675
192 : 3,132,865
195 : 3,129,944
3,139,283
3,143,350
3,161,411
199 : 3,147,979
200 : 3,143,351
201 : 3,127,177
3,142,488
3,147,980
216 : 3,130,974
227 : 3,119,622
3,134,598

Class 274

1 : 3,123,361
3,162,445
4 : 3,124,360
9 : 3,118,679
3,135,516
3,141,676
3,143,352
3,162,446
3,162,447
10 : 3,122,370
3,122,371
3,128,101
3,129,005
3,129,006
3,129,945
3,131,936
3,133,736
3,142,489
3,162,448
3,162,449
3,163,427
3,163,428
11 : 3,127,178
3,127,179
3,130,975
3,154,308
3,158,374
15 : 3,127,180
3,129,007
3,138,389
20 : 3,120,392
21 : 3,134,599
23 : 3,120,393
3,129,008
3,129,946
3,156,472
3,162,450
3,163,429
24 : 3,139,284
25 : 3,121,567
32 : 3,125,344
37 : 3,136,554
3,136,555
39 : 3,122,372
41.4 : 3,131,937
42 : 3,132,866
3,140,095
3,145,026

Class 275

1 : 3,123,362
2 : 3,142,490
3 : 3,121,568
3,143,353
3,161,412
6 : 3,123,363
3,136,556
8 : 3,125,345
3,133,737
3,158,375
8 : 3,159,406
12 : 3,135,517
3,157,402
15 : 3,156,473
3,157,403

Class 276

37 : 3,118,680

Class 277

1 : 3,123,364
3,125,346
3,160,416
2 : 3,132,867
3,152,807
3 : 3,119,623
3,122,373
3,127,181
3,141,677
3,161,413
4 : 3,129,009
8 : 3,124,361
9 : 3,118,681
3,129,010
3,131,938
3,147,981
15 : 3,131,939
16 : 3,147,982
17 : 3,128,102
19 : 3,163,430
22 : 3,117,792
3,129,947
24 : 3,121,569
3,124,362
26 : 3,127,182
3,136,557
3,149,845
27 : 3,122,374
3,129,948
3,129,949
3,144,253
3,149,846
28 : 3,131,940
3,145,995
32 : 3,128,103
34 : 3,121,570
35 : 3,154,309
36 : 3,117,793
37 : 3,120,959
3,135,518
39 : 3,154,310
3,156,474
40 : 3,127,183
3,160,417
42 : 3,124,363
3,127,184
3,128,104
3,131,941
3,138,390
50 : 3,147,983
53 : 3,131,942
3,162,451
58 : 3,156,475
59 : 3,129,011
64 : 3,126,207
3,139,285
65 : 3,148,887
66 : 3,116,930
67 : 3,147,013
70 : 3,153,539
74 : 3,155,393
75 : 3,143,354
3,153,540
76 : 3,124,364
81 : 3,129,012
3,136,558
82 : 3,159,407
83 : 3,123,365
84 : 3,134,600
3,152,808
86 : 3,124,365
3,162,452
88 : 3,122,375
90 : 3,131,943
3,160,418
92 : 3,117,794
3,125,347
93 : 3,157,404
3,161,414
95 : 3,137,508
3,156,476
105 : 3,149,847
3,158,377
3,162,453
3,162,454
3,162,455
111 : 3,123,366
3,144,254
112 : 3,133,738
115 : 3,119,624
124 : 3,120,394
136 : 3,162,456
139 : 3,131,944
3,136,559
140 : 3,138,391
3,151,868
141 : 3,140,096
3,155,394
3,160,419
146 : 3,127,185
153 : 3,132,868
163 : 3,155,395
165 : 3,116,931
3,149,848
3,149,849
166 : 3,154,311
168 : 3,140,097
169 : 3,145,996
170 : 3,118,682
3,137,509
171 : 3,123,367
3,132,869
173 : 3,116,932
3,144,255
174 : 3,116,933
180 : 3,124,366
3,153,541
187 : 3,128,105
188 : 3,130,976
3,134,601
189 : 3,121,571
3,147,014
.5 : 3,118,712
190 : 3,124,367
198 : 3,117,795
3,150,876
3,158,378
203 : 3,134,602
204 : 3,132,870
205 : 3,117,796
3,147,015
3,158,376
206 : 3,158,379
3,163,431
207 : 3,130,977
3,135,519
208 : 3,144,256
209 : 3,151,869
3,163,432
212 : 3,152,809
3,155,396
213 : 3,150,877
215 : 3,131,945
226 : 3,147,016
227 : 3,149,850
230 : 3,120,960
235 : 3,133,739
3,135,520
3,153,542
3,158,380
236 : 3,143,355
3,156,477
237 : 3,147,984
3,148,888
3,151,870

Class 279

1 : 3,123,368
3,129,950
3,144,257
2 : 3,117,797
3,118,683
3,127,186
3,131,946
3,136,560
3,145,997
3,157,405
3,157,406
3 : 3,147,017
3,158,381
4 : 3,122,376
3,130,978
3,133,740
3,142,491
3,143,356
3,148,889
3,149,851
3,149,852
9 : 3,136,561
3,150,878
14 : 3,148,890
16 : 3,116,934
3,119,625
35 : 3,123,369
3,147,018
3,159,408
36 : 3,157,407
41 : 3,136,562
42 : 3,156,478
46 : 3,135,521
3,152,810
3,163,433
49 : 3,132,871
50 : 3,121,572
51 : 3,120,961
76 : 3,156,479
82 : 3,123,370
3,152,811
83 : 3,127,187
3,136,563
91 : 3,162,457
97 : 3,135,522
103 : 3,131,947
106 : 3,131,948
3,147,985
3,149,853
3,157,408
109 : 3,129,013
110 : 3,123,371
3,160,420
114 : 3,141,678
119 : 3,156,480
123 : 3,135,523
3,142,492
3,151,871
3,158,382

Class 280

1.11: 3,151,872
.12: 3,117,798
.13: 3,119,626
.13: 3,122,377
.22: 3,137,510
5 : 3,125,348
3,129,014
3,131,949
3,133,741
3,134,603
3,139,286
3,158,383
3,159,409
3,163,434
3,163,435
.22: 3,127,188
.22: 3,146,841
.24: 3,137,511
.28: 3,133,742
6 : 3,120,962
3,121,573
3,122,378
3,124,368
3,127,189
3,131,950
3,140,098
3,141,679
3,156,481
.1 : 3,122,379
.1 : 3,135,524
7.1 : 3,116,935
.1 : 3,161,417
.13: 3,153,543
.16: 3,132,872
9 : 3,132,873
11.12: 3,120,397
.12: 3,162,458
.13: 3,132,874
.13: 3,134,604
.13: 3,145,998
.13: 3,151,873
.13: 3,154,312
.19: 3,152,812
.2 : 3,156,482
.28: 3,161,415
.3 : 3,158,384
.35: 3,122,380
.35: 3,125,349
.35: 3,129,951
.35: 3,135,525
.35: 3,140,877
.35: 3,145,027
.35: 3,145,028
.35: 3,147,986
.35: 3,149,854
.35: 3,151,874
.35: 3,155,398
.35: 3,157,409
.35: 3,158,385
.35: 3,160,421
.37: 3,148,891
.37: 3,150,879
.37: 3,151,875
.37: 3,163,436
.37: 3,163,437
.38: 3,123,372
.38: 3,135,526
12 : 3,123,373
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3,139,287
3,156,483
16 : 3,123,375
3,140,099
3,143,357
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3,147,019
3,150,880
3,151,876
18 : 3,140,878
18 : 3,147,020
3,154,313
21 : 3,161,416
28 : 3,120,963
32.6 : 3,148,892
33.99: Re.25,616
.99: 3,118,684
.99: 3,129,015
.99: 3,147,021
.99: 3,157,410
34 : 3,125,350
3,139,288
3,162,459
35 : 3,137,512
3,156,484
3,159,410
36 : 3,135,527
3,145,999
3,162,460
37 : 3,147,022
38 : 3,141,680
41 : 3,120,964
3,150,881
43 : 3,130,979
3,163,438
.12: 3,119,627
.12: 3,143,358
.17: 3,147,987
.17: 3,163,439
.23: 3,122,381
.23: 3,130,980
.23: 3,147,023
.23: 3,153,544
47.11: 3,126,208
.13: 3,125,351
.19: 3,116,936
.19: 3,118,685
.19: 3,147,988
.19: 3,154,314
.19: 3,162,461
.25: 3,141,681
.29: 3,157,411
.34: 3,132,875
.35: 3,145,031
.35: 3,162,462
.37: 3,116,937
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65 : 3,118,686
79.1 : 3,127,190
80 : 3,163,440
81 : 3,126,209
3,136,564
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.5 : 3,155,397
87 : 3,127,191
.02: 3,129,952
.03: 3,143,359
.04: 3,140,100
91 : 3,140,101
92 : 3,123,376
93 : 3,130,981
95 : 3,124,369
3,133,743
3,160,422
96.1 : 3,127,192
.1 : 3,134,605
.1 : 3,144,259
.1 : 3,144,260
.1 : 3,161,419
.2 : 3,118,687
.2 : 3,124,370
.2 : 3,133,744
.2 : 3,136,565
.2 : 3,143,360
.2 : 3,147,025
.2 : 3,147,026
.2 : 3,149,855
.2 : 3,163,441
.3 : 3,154,315
103 : 3,147,989
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104 : 3,147,990
3,154,317
3,154,318
.5 : Re.25,617
.5 : 3,117,799
.5 : 3,120,395
.5 : 3,121,574
.5 : 3,123,377
.5 : 3,123,378
.5 : 3,129,016
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.5 : 3,132,876
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.5 : 3,142,493
.5 : 3,154,319
.5 : 3,157,412
.5 : 3,162,463
.5 : 3,162,464
104.5 : 3,163,442
106 : 3,120,396
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.5 : 3,119,628
112 : 3,116,938
3,133,745
3,137,513
3,150,882
3,154,320
124 : Re.25,697
3,117,800
3,119,629
3,140,880
3,143,361
3,145,032
3,151,877
3,154,321
3,154,322
3,154,323
3,157,413
3,161,420
3,162,465
3,162,466
3,163,443
141 : 3,134,607
145 : 3,129,955
150 : 3,117,801
3,129,017
3,133,746
3,146,001
.5 : 3,125,352
.5 : 3,146,002
154.5 : 3,129,956
.5 : 3,158,386
165 : 3,160,423
179 : 3,125,353
3,128,106
206 : 3,156,486
208 : 3,143,362
220 : 3,152,813
226 : 3,133,747
236 : 3,121,575
237 : 3,161,421
247 : 3,149,857
254 : 3,117,802
257 : 3,132,877
3,134,608
282 : 3,123,379
284 : 3,133,748
3,151,878
291 : 3,133,749
402 : 3,119,630
3,127,193
403 : 3,137,514
404 : 3,123,380
405 : 3,123,381
3,136,566
406 : 3,116,939
3,129,957
3,151,879
408 : 3,151,880
3,151,881
414 : 3,142,494
3,154,324
415 : 3,151,882
3,151,883
417 : 3,123,382
418 : 3,129,958
421 : 3,127,194
3,140,102
422 : 3,116,940
3,125,354
423 : 3,120,398
3,151,884
425 : 3,139,289
426 : 3,156,487
433 : 3,117,803
3,135,528
434 : 3,148,893
438 : 3,117,804
3,122,382
3,129,018
440 : 3,137,515
442 : 3,149,858
446 : 3,119,631
447 : 3,118,688
3,138,392
456 : 3,156,488
457 : 3,123,383
3,125,355
3,128,107
3,132,878
3,150,883
460 : 3,150,884
462 : 3,140,103
463 : 3,124,371
477 : 3,124,372
3,130,982
3,151,885
478 : 3,126,210
3,134,609
3,140,881
3,154,325
478 : 3,158,387
479 : 3,150,885
3,152,814
481 : 3,139,290
3,140,882
482 : 3,155,399
485 : 3,129,019
489 : 3,135,529
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491 : 3,117,805
3,147,027
492 : 3,163,444
505 : 3,137,516
507 : 3,139,291
508 : 3,161,422
512 : 3,153,545
513 : 3,163,445
515 : 3,146,003

Class 281

3 : 3,146,004
6 : 3,155,400
3,162,467
11 : 3,163,446
19 : 3,151,886
25 : 3,159,411
27 : 3,135,531
29 : 3,142,495
3,145,033
3,161,423
33 : 3,121,576
3,125,356
3,128,108
3,135,532
34 : 3,133,750
3,140,883
36 : 3,118,689
42 : 3,127,195
43 : 3,162,468
44 : 3,141,683

Class 282

1 : 3,123,384
3,130,983
7 : 3,117,806
3,117,807
8 : 3,141,684
3,142,496
11.5 : 3,149,859
.5 : 3,160,424
12 : 3,163,447
13 : 3,142,497
19 : 3,135,533
22 : 3,131,951
23 : 3,116,941
3,147,028
3,147,991
24 : 3,133,751
25 : 3,133,752
3,136,567
29 : 3,120,399
3,137,517
3,139,292

Class 283

1 : 3,130,984
6 : 3,126,211
35 : 3,143,363
55 : 3,123,385
58 : 3,145,034

Class 285

1 : 3,130,985
3,152,815
3 : 3,131,952
3,134,610
3,148,894
4 : 3,139,293
5 : 3,162,469
7 : 3,148,895
3,159,412
9 : 3,154,326
12 : 3,126,212
3,142,498
13 : 3,151,887
3,153,546
15 : 3,152,816
18 : 3,120,965
3,124,373
3,147,992
3,149,860
3,153,547
3,155,401
3,161,424
22 : 3,151,888
39 : 3,151,889
44 : 3,125,357
47 : 3,146,005
3,151,890
54 : 3,134,611

55 : 3,125,358
3,142,499
3,143,364
3,148,896
3,160,425
59 : 3,140,104
61 : 3,126,213
3,157,414
62.8 : 3,125,359
71 : 3,140,105
74 : 3,129,959
82 : 3,130,986
85 : 3,116,942
3,124,374
86 : 3,162,470
87 : 3,153,548
88 : 3,155,402
90 : 3,158,388
91 : 3,133,753
93 : 3,141,685
95 : 3,129,960
3,160,426
96 : 3,142,500
98 : 3,148,897
110 : 3,129,020
3,145,035
3,151,891
111 : 3,127,196
3,155,403
112 : 3,134,612
3,135,534
114 : 3,144,261
3,156,489
116 : 3,120,966
121 : 3,156,490
133 : 3,158,389
134 : 3,136,568
137 : 3,118,690
3,120,400
3,125,360
3,125,361
3,127,197
3,132,879
3,135,535
3,136,569
3,151,892
3,153,549
3,155,404
3,163,448
142 : 3,132,880
3,134,613
144 : 3,134,614
146 : 3,127,198
3,130,987
149 : 3,117,808
3,118,691
3,120,401
3,140,106
3,148,898
150 : 3,121,577
158 : 3,151,893
3,151,894
3,152,817
159 : 3,148,899
3,148,900
161 : 3,150,886
165 : 3,127,199
3,133,754
173 : 3,119,632
3,126,214
174 : 3,141,686
175 : 3,130,988
176 : 3,126,215
179 : 3,153,550
184 : 3,142,501
187 : 3,135,536
3,163,449
189 : 3,131,953
3,154,327
3,159,413
193 : 3,136,570
197 : 3,132,881
3,151,895
212 : 3,146,006
3,148,901
3,151,896
215 : 3,160,427
226 : 3,127,200
230 : 3,129,961
231 : 3,120,967
3,150,887
233 : 3,129,021
3,154,328
238 : 3,118,692
3,131,954
3,163,450
239 : 3,154,329
242 : 3,117,809
3,140,884
3,142,502
243 : 3,142,503
3,156,491
249 : 3,129,022
256 : 3,160,428

269 : 3,144,263
277 : 3,120,968
3,133,755
3,138,393
305 : 3,120,402
311 : 3,144,262
312 : 3,116,943
317 : 3,124,375
3,129,962
321 : 3,150,888
329 : RE.25,653
332.2 : 3,116,944
.2 : 3,150,889
.3 : 3,139,294
334 : 3,129,963
3,158,390
339 : 3,148,902
340 : 3,125,362
3,140,107
341 : 3,120,969
3,134,615
3,135,537
348 : 3,159,414
349 : 3,149,861
363 : 3,135,538
367 : 3,144,264
368 : 3,118,693
369 : 3,129,964
397 : 3,122,383
3,141,687
398 : 3,124,376
419 : 3,154,330

Class 287

2 : 3,118,694
3 : 3,139,295
12 : 3,143,365
14 : 3,149,862
20 : 3,152,818
.1 : 3,152,819
.2 : 3,150,890
.3 : 3,127,201
21 : 3,151,897
52 : 3,127,202
3,130,989
3,139,296
3,147,029
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.03: 3,141,688
.04: 3,122,384
.05: 3,145,036
.06: 3,131,955
.07: 3,127,203
.07: 3,131,956
53 : 3,124,377
3,125,363
3,126,216
3,130,990
3,132,882
3,141,689
3,143,366
3,146,007
.5 : 3,122,385
54 : 3,118,695
3,119,633
3,129,965
3,144,265
3,154,331
3,155,405
3,157,415
3,161,425
58 : 3,141,690
3,157,416
64 : 3,140,885
85 : 3,130,991
87 : 3,117,810
3,119,634
3,130,992
3,135,539
3,135,540
3,146,008
3,154,332
3,154,333
3,155,406
3,155,407
3,160,430
3,162,471
90 : 3,125,364
3,128,109
3,128,110
3,129,023
3,130,993
3,149,863
91 : 3,133,756
92 : 3,143,367
3,150,891
93 : 3,122,386
3,163,451
99 : 3,130,994
100 : 3,129,966
101 : 3,130,995
108 : 3,119,635
3,132,883

108 : 3,152,820
119 : 3,116,945
3,118,696
3,140,108
3,140,886
127 : 3,134,616
3,157,417
130 : 3,158,391

Class 289

1.5 : 3,138,394
9 : 3,138,395
12 : 3,138,396
14 : 3,140,109
15 : 3,127,204
17 : 3,131,957
3,150,892
18 : 3,152,821
3,154,334

Class 290

2 : 3,150,267
4 : 3,141,096
7 : 3,124,693
38 : 3,124,694
3,130,318
3,151,249
3,154,689
3,163,769
3,163,770
40 : 3,124,695
3,143,656
50 : 3,127,518
3,152,259
52 : 3,124,696
3,148,282
3,151,250
3,152,260
3,157,793

Class 291

1 : 3,140,887
2 : 3,140,110
11 : 3,123,386
42 : 3,156,492
46 : 3,121,578
484 : 3,139,666

Class 292

1 : 3,126,217
3,148,903
3,151,898
3 : 3,134,617
5 : 3,124,378
7 : 3,125,365
15 : 3,129,024
17 : 3,145,037
3,151,899
21 : 3,123,387
3,149,864
25 : 3,129,967
36 : 3,137,518
39 : 3,120,970
42 : 3,160,431
48 : 3,121,579
3,123,388
3,140,888
52 : 3,128,111
61 : 3,152,822
64 : 3,135,541
66 : 3,148,904
75 : 3,133,757
3,141,691
3,151,900
3,163,452
76 : 3,139,297
77 : 3,116,946
79 : 3,132,884
87 : 3,152,823
91 : 3,120,971
97 : 3,129,025
99 : 3,131,958
3,161,426
111 : 3,150,893
113 : 3,117,811
3,127,205
3,145,038
114 : 3,124,379
3,162,472
115 : 3,146,009
124 : 3,151,901
128 : 3,140,889
146 : 3,149,865
147 : 3,141,692
163 : 3,124,380
164 : 3,127,206
3,156,493
166 : 3,136,571
167 : 3,160,432
169 : 3,120,972

169 : 3,125,366
3,128,112
3,144,266
173 : 3,130,996
3,141,693
175 : 3,126,218
194 : 3,161,427
198 : 3,143,368
201 : 3,129,968
3,150,894
202 : 3,122,387
204 : 3,135,542
212 : 3,146,010
216 : 3,149,866
3,152,824
3,155,408
218 : 3,123,389
220 : 3,142,504
221 : 3,118,703
3,137,519
226 : 3,149,867
229 : 3,121,580
3,157,418
240 : 3,134,618
241 : 3,160,433
247 : 3,125,367
3,146,011
251 : 3,138,397
.5 : 3,133,758
.5 : 3,142,505
.5 : 3,149,868
.5 : 3,151,902
.5 : 3,155,409
.5 : 3,163,453
256.5 : 3,119,636
.5 : 3,145,039
.69: 3,156,494
.75: 3,151,903
258 : 3,124,381
262 : 3,126,219
3,135,543
263 : 3,141,694
264 : 3,126,220
3,155,410
275 : 3,144,267
280 : 3,121,581
3,123,390
3,128,113
3,129,026
3,130,997
3,132,885
3,153,551
3,155,411
281 : 3,157,419
288 : 3,143,369
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3,158,393
292 : 3,161,428
296 : 3,129,027
300 : 3,127,207
304 : 3,145,040
311 : 3,117,812
320 : 3,128,114
3,146,012
3,149,869
322 : 3,157,421
336.3 : 3,127,208
.3 : 3,128,115
.3 : 3,136,572
.3 : 3,144,268
.3 : 3,148,905
.3 : 3,153,552
.3 : 3,153,553
.3 : 3,156,495
.3 : 3,159,415
337 : 3,142,506
338 : 3,129,969
340 : 3,147,031
3,152,825
3,159,416
341.16: 3,122,388
.16: 3,152,826
.17: 3,131,959
.17: 3,155,412
.18: 3,126,221
.18: 3,161,429
343 : 3,124,382
346 : 3,149,870
3,154,343
352 : 3,149,871
358 : 3,128,116
359 : 3,117,813

Class 293

1 : 3,131,960
9 : 3,134,619
17 : 3,140,111
64 : 3,130,998
3,146,013
67 : 3,121,582
69 : 3,125,368

70 : 3,146,014
84 : 3,120,973

Class 294

1 : 3,139,298
3,140,890
5.5 : 3,143,370
.5 : 3,154,335
.5 : 3,162,473
.5 : 3,163,454
11 : 3,118,697
3,124,383
16 : 3,126,222
3,132,886
3,141,695
3,150,895
3,152,827
3,159,417
3,162,474
19 : 3,117,814
3,122,389
3,129,028
3,136,573
3,141,696
3,145,041
3,146,015
3,149,872
3,157,422
20 : 3,129,970
3,143,371
25 : 3,132,887
26 : 3,148,906
3,162,475
28 : 3,153,554
31 : 3,158,394
.2 : 3,116,947
.2 : 3,120,974
.2 : 3,122,390
32 : 3,161,430
50.5 : 3,149,873
.5 : 3,163,455
.7 : 3,123,391
.7 : 3,163,456
54 : 3,136,574
3,154,336
3,155,413
55 : 3,139,299
58 : 3,155,414
61 : 3,148,907
62 : 3,129,029
63 : 3,161,431
64 : 3,117,815
3,122,391
3,129,971
3,139,301
3,152,828
3,159,418
65 : 3,139,300
66 : 3,129,030
3,130,999
67 : 3,119,637
3,128,117
3,138,398
3,146,016
3,148,908
3,151,904
3,155,415
3,157,423
3,157,424
3,163,457
69 : 3,120,975
71 : 3,143,372
73 : 3,136,575
74 : 3,116,948
3,120,403
3,133,759
3,147,032
75 : 3,129,031
3,149,874
3,154,337
77 : 3,140,112
3,142,507
81 : 3,123,392
3,148,909
3,155,416
83 : 3,121,583
3,121,584
3,122,392
3,131,961
3,132,888
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3,145,042
86 : 3,132,890
3,140,113
.18: 3,152,829
87 : 3,157,425
.24: 3,125,369
.28: 3,144,269
88 : 3,124,384
3,127,209
3,134,620
3,139,302
3,147,993

88 : 3,153,555
3,154,338
3,154,339
3,156,496
3,163,458
89 : 3,124,385
95 : 3,152,830
97 : 3,128,118
99 : 3,128,119
101 : 3,162,476
102 : 3,118,698
103 : 3,126,223
104 : 3,154,340
106 : 3,161,432
113 : 3,137,520
115 : 3,125,370
116 : 3,127,210

Class 295

1 : 3,148,910
11 : 3,127,211
21 : 3,118,699
3,127,212

Class 296

1 : 3,129,972
3,131,000
3,140,891
3,145,043
3,149,875
3,163,459
3 : 3,131,962
3,157,426
4 : 3,146,017
5 : 3,147,033
16 : 3,155,417
19 : 3,148,911
23 : 3,116,949
3,119,638
3,123,393
3,124,386
3,145,044
3,149,876
3,155,418
3,157,427
3,160,434
3,160,435
3,162,477
3,163,460
24 : 3,116,950
3,135,544
3,145,045
3,154,341
26 : 3,145,046
3,146,018
27 : 3,131,001
3,161,433
28 : 3,126,224
3,127,213
3,131,963
3,132,891
3,141,697
3,149,877
85 : 3,121,590
3,140,893
3,146,023
3,162,482
3,163,464
89 : 3,122,396
3,131,965
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3,134,624
3,135,548
3,142,510
3,147,038
3,162,483
90 : 3,116,952
3,147,039
103 : 3,150,897
105 : 3,145,049
114 : 3,123,396
118 : 3,120,404
3,127,215
3,128,123
119 : 3,159,423
131 : 3,155,425
134 : 3,127,216
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136 : 3,155,426
140 : 3,152,833
143 : 3,160,437
149 : 3,142,511
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150 : 3,123,397
153 : 3,121,591
156 : 3,117,816
157 : 3,120,405
3,134,625
159 : 3,137,522
3,148,915
160 : 3,120,977
162 : 3,140,894

84 : 3,146,020
91 : 3,145,047
93 : 3,118,701
3,155,422
95 : 3,123,394
3,140,115
3,152,832
3,156,497
97 : 3,122,393
3,128,121
3,142,508
3,150,896
3,151,907
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3,159,421
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105 : 3,160,436
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107 : 3,143,373
3,155,424
116 : 3,146,022
117 : 3,159,422
120 : 3,122,394
137 : 3,148,913

Class 297

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5 : 3,145,048
13 : 3,131,964
16 : 3,123,395
3,124,387
18 : 3,154,344
19 : 3,138,400
3,157,430
28 : 3,126,225
35 : 3,134,622
36 : 3,138,401
45 : 3,122,395
56 : 3,147,036
60 : 3,120,976
61 : 3,132,894
3,140,117
3,147,037
65 : 3,162,481
68 : 3,128,122
69 : 3,138,402
75 : 3,137,521
78 : 3,134,623
80 : 3,140,892
82 : 3,142,509
83 : 3,135,547
84 : 3,121,589
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85 : 3,121,590
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105 : 3,145,049
114 : 3,123,396
118 : 3,120,404
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119 : 3,159,423
131 : 3,155,425
134 : 3,127,216
3,132,895
136 : 3,155,426
140 : 3,152,833
143 : 3,160,437
149 : 3,142,511
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150 : 3,123,397
153 : 3,121,591
156 : 3,117,816
157 : 3,120,405
3,134,625
159 : 3,137,522
3,148,915
160 : 3,120,977
162 : 3,140,894

Class 297—Con.
162 : 3,156,498
163 : 3,129,032
174 : 3,126,226
3,133,760
3,133,761
3,138,403
180 : 3,131,967
3,136,577
3,137,523
3,144,270
183 : 3,123,398
3,145,050
184 : 3,120,978
3,155,427
185 : 3,131,968
188 : 3,125,372
3,143,374
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191 : 3,149,879
192 : 3,122,397
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194 : 3,118,704
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255 : 3,146,026
256 : 3,132,896
264 : 3,127,219
271 : 3,141,700
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3,137,524
285 : 3,140,118
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308 : 3,139,304
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317 : 3,139,305
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320 : 3,124,388
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384 : 3,125,373
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417 : 3,140,119
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3,142,515
3,147,997
3,147,998
3,156,502
3,159,428
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454 : 3,124,389
3,127,221
3,139,307
455 : 3,126,229
457 : 3,120,407
458 : 3,124,390
460 : 3,145,054
3,158,400
3,161,436
461 : 3,123,404
3,139,308
462 : 3,125,377

Class 298
2 : 3,160,439
5 : 3,135,554
8 : 3,120,408
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15 : 3,147,999
17 : 3,152,838
3,157,435
19 : 3,132,900
3,161,437
20 : 3,149,881
3,158,402
21 : 3,134,628
22 : 3,135,555
3,145,055
3,145,056
25 : 3,157,436
35 : 3,145,057
38 : 3,117,820

Class 299
4 : Re.25,682
5 : 3,148,000
9 : 3,161,438
25 : 3,148,917
34 : 3,151,912
39 : 3,141,702
55 : 3,140,120
56 : 3,149,882
57 : 3,140,121
59 : 3,148,918
67 : 3,161,439
71 : 3,141,703
3,157,437
73 : 3,157,438
75 : 3,148,001
84 : 3,147,959
86 : 3,140,898
90 : 3,158,403
92 : 3,148,002
3,155,428

Class 300
2 : 3,140,122
3,154,346
3,160,440
3 : 3,132,901
7 : 3,128,126
8 : 3,123,405
19 : 3,136,582
21 : 3,128,127

Class 301
1 : 3,124,391
5 : 3,154,347
3,156,504
6 : 3,135,556
3,135,557
3,138,406
3,153,557
3,154,348
3,163,469
9 : 3,129,977
3,131,972
3,138,407
3,161,440
12 : 3,129,034
3,160,441
3,160,442
13 : 3,142,516
3,143,376
3,144,275
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36 : 3,139,309
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37 : 3,135,558
3,141,704
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3,145,062
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3,155,430
3,159,429
47 : 3,128,128
63 : 3,135,559
3,143,377
3,158,404
108 : 3,149,883
131 : 3,135,560

Class 302
2 : 3,125,378
3,129,978
3,129,979
3,159,430
3,160,443
3 : 3,158,405
11 : 3,138,408
12 : 3,161,441
14 : 3,140,123
15 : 3,136,583
23 : 3,129,980
3,155,431
25 : 3,152,839
27 : 3,123,406
3,157,439
28 : 3,131,973
3,141,705
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29 : 3,141,706
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35 : 3,120,979
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42 : 3,137,529
49 : 3,135,561
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52 : 3,136,584
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56 : 3,143,378
3,155,432
58 : 3,122,398
59 : 3,163,472
60 : 3,158,407
3,158,408
61 : 3,152,843
64 : 3,117,821
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Class 303
2 : 3,155,433
3 : 3,148,919
6 : 3,118,706
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7 : 3,117,822
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12 : 3,144,277
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36 : 3,160,446
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68 : 3,123,408
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70 : 3,123,409
79 : 3,121,594
83 : 3,160,447
84 : 3,140,126
3,154,350

Class 305
5 : 3,140,899
11 : 3,116,956
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13 : 3,120,409
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30 : 3,156,505
35 : 3,123,410
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37 : 3,118,709
48 : 3,154,351
50 : 3,123,411
51 : 3,117,824
53 : 3,128,130
3,140,127
56 : 3,133,767

Class 306
1.6 : 3,117,825
12 : 3,125,381
29 : 3,158,411
33 : 3,128,131
40 : 3,154,352

Class 307
2 : 3,128,132
3 : 3,151,915
10 : 3,158,749
3,160,761
11 : 3,138,715
3,152,261
12 : 3,150,268
29 : 3,130,319
31 : 3,153,728
38 : 3,133,202
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157 : 3,141,983

Class 308

2 : 3,124,394
3 : 3,163,474
.5 : 3,148,003
.5 : 3,149,887
.6 : 3,120,981
.6 : 3,126,230
.6 : 3,129,981
.6 : 3,133,768
.6 : 3,142,517
.6 : 3,160,448
.8 : 3,157,441
4 : 3,123,412
3,125,382
3,129,982
3,148,004
5 : 3,137,530
6 : 3,145,065
3,148,005
8 : 3,122,399
9 : 3,119,639
3,124,392
3,132,903
3,136,589
3,137,531
3,143,381
3,146,036
3,146,037
3,152,845
3,154,353
3,158,412
10 : 3,146,038
3,155,437
15 : 3,144,278
18 : 3,147,048
22 : 3,124,393
3,131,003

22 : 3,140,900
26 : 3,117,826
3,132,904
3,140,901
3,159,435
35 : 3,126,231
3,144,279
3,158,413
36.1 : 3,127,222
.1 : 3,129,983
.1 : 3,133,769
.1 : 3,135,562
.1 : 3,140,902
.1 : 3,140,903
.1 : 3,141,708
.1 : 3,144,280
.1 : 3,149,888
.3 : 3,126,232
.3 : 3,128,133
.4 : 3,140,128
37 : 3,118,710
3,139,311
3,150,900
3,152,846
3,163,475
38 : 3,129,984
3,151,916
40 : 3,132,905
3,139,312
3,141,709
3,142,518
3,154,354
41 : 3,121,595
47 : 3,161,444
50 : 3,144,281
56 : 3,119,640
71 : 3,121,596
72 : 3,155,438
3,160,449
3,161,445
73 : 3,131,004
83 : 3,151,917
88 : 3,135,563
103 : 3,116,957
121 : 3,129,037
3,138,412
3,138,413
122 : 3,124,395
3,126,233
3,132,906
3,143,382
3,162,492
127 : 3,148,006
135 : 3,120,982
138 : 3,151,918
3,158,414
140 : 3,132,907
152 : 3,127,223
156 : 3,149,889
160 : 3,131,005
3,132,908
3,142,519
3,154,355
3,158,415
3,160,450
3,161,446
161 : 3,117,827
163 : 3,161,447
168 : 3,158,416
174 : 3,125,383
3,128,134
3,131,006
3,147,049
187 : 3,131,007
3,135,564
3,149,890
3,161,448
.1 : 3,120,983
.1 : 3,129,985
.1 : 3,141,710
.1 : 3,144,282
.1 : 3,163,476
.2 : 3,140,129
.2 : 3,142,520
191 : 3,157,442
192 : 3,131,008
193 : 3,123,413
198 : 3,148,922
200 : 3,124,396
201 : 3,121,597
3,141,711
3,146,039
3,157,443
3,162,493
207 : 3,144,283
211 : 3,156,506
216 : 3,140,130
217 : 3,122,400
3,144,284
3,163,477
218 : 3,133,770

222 : 3,129,986
3,146,040
235 : 3,163,478
236 : 3,118,711
3,129,038
3,147,050
237 : 3,155,440
238 : 3,131,977
3,131,978
3,131,979
3,157,444
239 : 3,161,449
240 : 3,127,224
3,140,131
241 : 3,143,383
3,150,901
3,155,439
3,155,441
243 : 3,156,507

Class 310

2 : 3,123,725
4 : 3,119,939
3,120,621
3,123,726
3,126,492
3,129,345
3,133,212
3,137,798
3,137,799
3,138,725
3,139,541
3,139,542
3,141,099
3,144,569
3,147,390
3,149,246
3,155,849
3,157,802
3,161,786
3,161,787
3,162,778
5 : 3,132,267
6 : 3,122,660
3,143,671
8 : 3,129,346
.1 : 3,130,329
.1 : 3,138,726
.1 : 3,148,289
.2 : 3,123,727
.3 : 3,154,700
.4 : 3,120,622
.4 : 3,145,311
.4 : 3,147,391
.4 : 3,148,290
.6 : 3,127,527
.6 : 3,141,100
.6 : 3,153,156
.6 : 3,158,762
.6 : 3,163,783
.7 : 3,118,074
.7 : 3,122,661
.7 : 3,146,360
.7 : 3,151,258
.7 : 3,158,763
.7 : 3,159,756
.7 : 3,163,784
.9 : 3,150,274
.9 : 3,162,779
.9 : 3,162,780
9.1 : Re.25,657
.1 : 3,159,757
.5 : 3,122,662
.5 : 3,128,397
.5 : 3,143,672
.6 : 3,131,320
.6 : 3,154,701
.8 : 3,150,275
11 : 3,122,663
3,127,528
3,130,330
3,133,213
3,140,410
3,140,411
3,143,673
3,146,361
3,148,291
3,149,247
3,149,248
3,149,249
3,149,250
3,149,251
3,149,252
3,149,253
3,151,259
3,154,702
3,154,703
3,155,850
3,158,764
3,160,768

11 : 3,161,788
3,161,789
3,161,790
3,162,781
12 : 3,149,254
3,158,765
3,163,785
13 : 3,135,879
3,144,570
3,148,292
3,155,851
14 : 3,130,331
3,135,880
3,158,766
15 : 3,129,347
3,130,332
3,132,268
3,133,214
3,153,735
3,153,736
18 : 3,130,333
19 : 3,123,728
3,134,034
21 : 3,127,529
22 : 3,156,835
23 : 3,122,664
3,140,412
3,161,791
24 : 3,119,940
3,157,803
25 : 3,134,035
3,152,269
26 : 3,122,665
3,139,543
3,139,544
3,145,312
3,147,392
3,148,293
3,155,852
3,160,769
3,161,792
27 : 3,139,545
3,152,270
3,161,793
3,163,786
29 : 3,136,904
3,144,571
3,155,853
3,155,854
3,156,836
3,156,837
3,157,804
30 : 3,149,255
32 : 3,128,398
35 : 3,130,334
36 : 3,118,075
3,125,696
3,135,881
37 : 3,143,674
38 : 3,155,855
3,163,787
39 : 3,118,076
3,139,546
40 : 3,138,727
41 : 3,122,666
42 : 3,145,313
3,156,838
43 : 3,123,729
3,151,260
45 : 3,122,667
3,163,788
46 : 3,139,547
3,153,157
48 : 3,121,811
49 : 3,119,941
3,121,812
3,134,917
50 : 3,119,942
3,121,178
3,121,813
3,162,782
51 : 3,133,215
3,154,704
3,154,705
53 : 3,122,668
3,152,271
3,163,789
54 : 3,123,730
3,127,530
3,131,321
3,143,675
3,150,276
3,150,277
3,154,706
3,163,790
57 : 3,119,032
3,135,882
3,155,856
3,160,770
61 : 3,157,805
62 : 3,142,772

64 : 3,119,033
3,157,806
68 : 3,127,531
3,131,322
3,134,036
3,135,883
3,141,101
3,142,773
3,145,314
3,146,362
3,160,771
70 : 3,145,315
71 : 3,144,572
75 : 3,158,767
82 : 3,117,244
83 : 3,139,548
3,142,774
3,146,363
3,152,272
3,153,158
3,153,159
3,159,758
3,163,791
86 : 3,143,676
87 : 3,128,399
3,135,884
3,135,885
3,136,905
3,153,160
3,150,278
3,161,794
90 : 3,121,179
3,134,037
3,150,279
93 : 3,141,102
94 : 3,144,573
95 : 3,141,103
3,157,807
97 : 3,125,697
3,139,549
100 : 3,128,400
102 : 3,163,792
103 : 3,159,759
104 : 3,157,808
105 : 3,119,034
3,121,180
3,148,294
3,162,783
106 : 3,128,401
111 : 3,132,269
112 : 3,135,886
3,141,104
146 : 3,160,772
154 : 3,135,887
3,153,737
156 : 3,121,814
3,126,493
3,132,270
3,134,038
3,149,256
3,156,839
3,157,809
157 : 3,158,768
162 : 3,132,271
3,153,161
164 : 3,121,815
3,131,323
166 : 3,154,707
3,159,760
168 : 3,132,272
3,134,039
3,134,918
3,140,413
3,157,810
172 : 3,158,769
173 : 3,161,795
178 : 3,128,402
183 : 3,127,532
186 : 3,159,761
187 : 3,154,708
194 : 3,129,348
198 : 3,151,261
211 : 3,134,040
3,153,162
212 : 3,137,800
214 : 3,139,550
215 : 3,130,335
3,150,280
217 : 3,159,762
218 : 3,158,771
231 : 3,153,163
232 : 3,133,216
233 : 3,133,217
234 : 3,124,709
3,129,349
235 : 3,129,350
3,140,414

236 : 3,146,364
237 : 3,136,906
238 : 3,159,763
239 : 3,134,041
3,138,728
3,141,985
3,143,677
243 : 3,123,731
245 : 3,127,533
246 : 3,132,273
3,133,218
3,145,316
3,146,365
3,154,709
3,158,772
3,158,773
247 : 3,123,732
3,152,274
249 : 3,148,295
3,153,164
254 : 3,130,336
3,147,393
258 : 3,130,337
3,162,784
259 : 3,156,840
260 : 3,145,317
3,151,262
261 : 3,128,403
266 : 3,152,275
268 : 3,128,404
3,144,574
3,153,165
3,159,764
271 : 3,135,888

Class 312

7 : 3,131,980
3,156,508
10 : 3,146,041
29 : 3,137,532
31 : 3,128,135
3,135,565
3,135,566
3,151,919
.1 : 3,132,909
33 : 3,120,410
3,123,414
3,125,384
35 : 3,137,533
3,151,920
3,162,494
37 : 3,147,051
38 : 3,140,904
39 : 3,126,234
45 : 3,145,066
3,157,445
49 : 3,116,958
50 : 3,127,225
60 : 3,154,356
73 : 3,146,042
97.1 : 3,122,401
.1 : 3,123,415
.1 : 3,124,397
.1 : 3,129,039
.1 : 3,135,567
.1 : 3,144,285
.1 : 3,146,043
.1 : 3,158,417
107 : 3,125,385
3,133,771
3,159,436
108 : 3,133,772
3,159,437
111 : 3,154,357
3,159,438
116 : 3,135,568
125 : 3,140,132
134 : 3,125,386
138 : 3,155,442
140.2 : 3,119,641
.2 : 3,140,133
.4 : 3,119,642
189 : 3,126,235
194 : 3,149,891
3,160,451
195 : 3,123,416
3,125,387
3,157,446
196 : 3,142,521
198 : 3,124,398
199 : 3,142,522
201 : 3,126,236
3,148,923
204 : 3,126,237
3,129,987
3,140,134
206 : 3,124,399
3,141,712
207 : 3,138,414
208 : 3,140,135

Class 312—Con.

209 : 3,128,136
3,138,415
3,154,358
213 : 3,146,044
214 : 3,125,388
3,156,509
217 : 3,135,569
3,150,902
221 : 3,123,417
3,152,847
222 : 3,131,981
223 : 3,129,040
3,141,713
3,156,510
3,162,495
227 : 3,159,439
228 : 3,162,496
229 : 3,146,045
234.1 : 3,163,479
.2 : 3,146,046
.5 : 3,149,892
235 : 3,128,137
236 : 3,129,041
3,160,452
238 : 3,160,453
241 : 3,147,052
3,152,848
243 : 3,131,010
245 : 3,126,238
3,142,523
246 : 3,129,042
248 : 3,162,497
256 : 3,148,924
257 : 3,150,903
263 : 3,159,440
264 : 3,132,910
266 : 3,131,011
268 : 3,159,441
271 : 3,120,411
272.5 : 3,134,630
273 : 3,151,921
276 : 3,150,904
3,150,905
281 : 3,124,400
296 : 3,125,389
311 : 3,135,570
319 : 3,117,828
3,123,418
3,146,047
3,163,480
320 : 3,120,412
3,120,984
3,122,402
3,140,905
323 : 3,140,136
3,146,048
3,148,007
3,162,498
329 : 3,125,390
3,155,443
3,157,447
330 : 3,120,413
3,155,444
333 : 3,123,419
3,139,313
337 : 3,124,401
339 : 3,131,982
343 : 3,119,643
345 : 3,129,988
346 : 3,119,644
3,131,009
348 : 3,138,416
3,141,714
350 : 3,124,402

Class 313

7 : 3,118,077
3,141,986
3,143,678
11.5 : 3,130,338
17 : 3,141,987
22 : 3,153,738
24 : 3,118,078
3,122,669
29 : 3,119,943
30 : 3,152,276
32 : 3,129,351
40 : 3,130,339
42 : 3,148,296
47 : 3,132,274
49 : 3,156,841
54 : 3,133,219
55 : 3,136,907
57 : 3,124,710
3,138,729
3,143,679
59 : 3,135,889
60 : 3,149,257
61 : 3,124,711
3,146,366
62 : 3,128,405
63 : 3,121,816
3,136,908
3,137,801
3,139,551
3,143,680
3,155,857
3,155,858
3,156,842
65 : 3,120,623
3,128,406
3,136,909
3,144,575
3,148,297
3,149,258
67 : 3,137,802
3,137,803
68 : 3,133,220
3,141,105
3,155,859
3,160,773
71 : 3,163,793
73 : 3,157,811
75 : 3,154,710
76 : 3,163,794
77 : 3,138,730
78 : 3,134,919
82 : 3,119,035
3,121,181
3,128,407
3,130,340
3,131,324
3,132,275
3,142,775
3,145,318
3,154,711
83 : 3,135,890
3,139,552
3,143,681
84 : 3,136,910
3,141,988
3,155,860
3,158,774
86 : 3,126,494
3,139,574
3,146,367
89 : 3,122,670
3,126,495
3,135,891
92 : 3,130,341
3,141,106
3,146,368
3,146,369
3,160,774
93 : 3,119,036
3,147,394
94 : 3,119,037
3,157,812
103 : 3,119,038
3,128,408
3,130,342
106 : 3,148,298
107.5 : 3,119,039
108 : 3,117,245
3,118,079
3,121,817
3,127,534
3,132,276
3,133,221
3,133,222
3,136,911
3,136,912
3,141,107
3,143,682
3,148,299
3,153,166
3,153,167
3,153,739
3,154,712
3,155,861
3,157,813
3,161,797
109 : 3,152,277
3,160,775
.5 : Re.25,603
.5 : 3,127,535
.5 : 3,151,263
.5 : 3,155,862
110 : 3,143,683
111 : 3,136,913
112 : 3,134,920
3,153,740
3,160,776
113 : 3,138,731
3,153,168
3,160,777
3,162,785
114 : 3,148,301
117 : 3,136,914
3,153,741
118 : 3,146,370
125 : 3,145,319
3,158,775
130 : 3,133,223
141 : 3,119,944
3,144,576
144 : 3,139,553
146 : 3,117,246
3,123,733
3,130,343
3,132,277
3,140,415
161 : 3,117,247
3,153,169
162 : 3,127,536
171 : 3,133,224
3,134,921
174 : 3,147,395
3,152,278
178 : 3,121,182
3,132,278
179 : 3,158,776
3,160,778
187 : 3,117,248
188 : 3,128,409
3,135,892
198 : 3,123,734
202 : 3,124,712
204 : 3,121,183
207 : 3,121,184
210 : 3,141,989
213 : 3,138,732
214 : 3,119,040
220 : 3,125,698
3,130,344
221 : 3,141,990
3,148,300
3,150,281
223 : 3,140,416
231 : 3,136,915
3,141,108
3,146,371
3,152,279
240 : 3,161,798
243 : 3,128,410
3,152,280
3,153,170
250 : 3,139,554
256 : 3,138,733
3,140,417
3,144,577
260 : 3,155,863
266 : 3,140,418
267 : 3,154,713
268 : 3,134,922
269 : 3,122,671
270 : 3,134,042
3,163,795
271 : 3,124,713
3,134,923
3,156,843
275 : 3,149,259
286 : 3,145,320
289 : 3,142,776
290 : 3,132,279
291 : 3,138,734
293 : 3,119,041
3,119,945
296 : 3,140,419
299 : 3,125,699
305 : 3,156,844
307 : 3,122,672
311 : 3,151,264
312 : 3,137,804
318 : 3,121,185
330 : 3,160,779
337 : 3,117,249
3,118,080
3,119,946
3,131,328
346 : 3,119,947
3,127,537
3,134,924
3,150,282
3,155,864
3,155,865
3,160,780
347 : 3,118,081
348 : 3,126,496
350 : 3,141,991
3,158,777
3,161,799
355 : 3,143,684
356 : 3,151,265
3,154,714

Class 314

22 : 3,163,799
25 : 3,151,266
31 : 3,128,411
45 : 3,163,796
61 : Re.25,542
Re.25,580
68 : 3,119,042
69 : 3,125,700
69 : 3,133,225
3,138,735
74 : 3,131,325
75 : 3,129,352
101 : 3,119,948

Class 315

3 : 3,148,302
3,153,742
.5 : 3,117,250
.5 : 3,119,043
.5 : 3,126,497
.5 : 3,133,226
.5 : 3,134,925
.5 : 3,141,992
.5 : 3,142,777
.5 : 3,151,267
.5 : 3,155,866
.5 : 3,155,867
.5 : 3,156,845
.5 : 3,157,814
.5 : 3,160,781
.6 : 3,119,044
.6 : 3,121,818
.6 : 3,121,819
.6 : 3,123,735
.6 : 3,123,736
.6 : 3,140,420
.6 : 3,150,283
5 : 3,125,701
.21: 3,118,082
.29: 3,119,045
.37: 3,160,782
.38: 3,153,743
.39: 3,124,714
.42: 3,133,227
.42: 3,147,396
.43: 3,118,083
.43: 3,155,868
.47: 3,132,280
.48: 3,117,251
8 : 3,126,498
3,153,171
.5 : 3,120,624
.5 : 3,157,815
.5 : 3,157,816
.6 : 3,142,778
10 : 3,121,186
3,123,737
3,124,715
3,124,716
3,129,353
3,134,043
3,134,044
3,134,926
3,136,916
3,151,268
3,153,172
3,154,715
11 : 3,158,778
12 : 3,136,917
3,144,578
3,155,869
13 : 3,144,579
3,161,800
14 : 3,124,717
3,136,918
15 : 3,143,685
3,151,269
18 : 3,118,084
3,155,870
19 : 3,130,345
20 : 3,146,372
3,154,716
21 : 3,151,270
3,153,173
22 : 3,122,673
3,122,674
3,130,346
3,132,281
3,141,109
3,142,779
3,146,373
3,148,303
3,150,284
3,155,871
3,163,797
23 : 3,132,282
3,151,271
3,155,872
25 : 3,148,304
26 : 3,118,085
3,119,949
27 : 3,129,354
3,129,355
3,132,283
3,132,284
3,133,228
3,134,045
3,134,927
3,134,928
3,143,686
27 : 3,144,580
3,144,581
3,147,397
3,149,260
3,153,174
3,155,873
3,157,817
30 : 3,134,046
3,137,805
3,145,321
3,151,272
31 : 3,138,736
3,141,993
35 : 3,159,765
36 : 3,126,499
3,144,582
3,144,583
3,151,273
3,151,274
3,155,874
39 : 3,127,538
3,131,326
3,136,919
3,151,275
.3 : 3,129,356
.3 : 3,158,779
.3 : 3,161,801
.55: 3,134,047
.55: 3,158,780
.61: 3,154,717
.65: 3,121,820
.69: 3,121,821
.69: 3,121,822
.77: 3,157,818
46 : 3,123,738
50 : 3,138,737
51 : 3,148,305
58 : 3,124,718
3,154,718
71 : 3,118,086
73 : 3,122,675
77 : 3,125,702
82 : 3,139,555
3,145,322
3,148,306
83 : 3,121,823
3,135,893
3,146,374
84.5 : 3,142,780
.5 : 3,158,781
.6 : 3,119,950
.6 : 3,147,398
89 : 3,146,375
96 : 3,141,994
98 : 3,130,347
108 : 3,123,739
3,134,929
111 : 3,140,421
3,153,175
3,153,744
3,157,819
3,161,802
3,163,798
113 : 3,157,820
117 : 3,160,783
127 : 3,123,740
129 : 3,119,046
3,136,920
132 : 3,140,422
135 : 3,149,261
136 : Re.25,655
149 : 3,130,348
151 : 3,130,349
155 : 3,157,821
158 : 3,139,556
159 : 3,128,412
161 : 3,146,376
163 : 3,154,719
166 : 3,156,846
168 : 3,138,738
3,149,262
169 : 3,121,824
3,141,110
3,154,720
3,157,822
3,157,823
3,157,824
171 : 3,122,676
172 : 3,154,721
177 : 3,119,047
3,131,327
179 : 3,127,539
180 : 3,127,540
181 : 3,141,111
189 : 3,155,875
194 : 3,142,781
195 : 3,159,766
200 : 3,119,048
201 : 3,125,703
3,140,423
3,152,281
205 : 3,129,357
206 : 3,134,048
206 : 3,153,745
209 : 3,125,704
3,145,323
3,150,285
3,150,286
3,161,803
212 : 3,145,324
231 : 3,141,112
3,151,276
237 : 3,148,307
238 : 3,133,229
241 : 3,122,677
3,144,584
3,162,786
248 : 3,138,739
254 : 3,132,285
277 : 3,135,894
278 : 3,125,705
3,160,784
284 : 3,132,286

Class 316

1 : 3,144,286
4 : 3,127,226
8 : 3,159,442
19 : 3,147,053
3,151,922
21 : 3,160,454
24 : 3,162,499
25 : 3,131,983
27 : 3,140,906
31 : 3,129,043

Class 317

2 : 3,120,625
3,120,626
3,121,187
3,121,825
3,137,806
3,141,113
3,146,377
3,158,782
3,160,785
3,162,787
3 : 3,124,719
4 : 3,138,740
3,156,847
5 : 3,122,678
3,153,746
8 : 3,140,424
9 : 3,119,049
3,138,741
11 : 3,136,921
3,147,399
3,152,282
12 : 3,123,741
3,141,995
3,143,687
3,155,876
3,158,783
3,158,784
13 : 3,119,951
3,127,541
3,136,922
3,141,996
3,146,378
3,155,877
3,155,878
14 : 3,126,500
3,148,308
3,163,800
3,163,801
15 : 3,152,283
18 : 3,158,785
19 : 3,156,848
22 : 3,117,252
3,127,542
3,129,358
3,147,400
3,150,287
3,152,284
3,152,285
3,152,286
27 : 3,119,952
3,121,826
3,127,543
3,131,329
3,138,742
3,139,557
3,148,309
3,156,849
3,160,786
3,160,787
33 : 3,132,287
3,158,786
36 : 3,133,230
36 : 3,144,586
3,153,747
3,157,825
3,160,788
3,163,802
40 : 3,143,688
41 : 3,159,768
46 : 3,152,287
3,155,880
3,157,826
58 : 3,123,742
69 : 3,149,263
80 : 3,133,231
3,141,114
3,160,789
86 : 3,142,782
97 : 3,147,401
98 : 3,139,558
3,158,787
99 : 3,120,627
3,131,330
3,141,997
3,145,325
3,149,264
3,152,288
3,157,827
3,159,769
3,161,804
100 : 3,121,188
3,122,679
3,123,743
3,124,720
3,132,288
3,136,924
3,141,998
3,141,999
3,147,402
3,147,403
3,149,265
3,157,828
101 : 3,122,680
3,124,721
3,125,706
3,130,350
3,130,351
3,134,049
3,134,930
3,138,743
3,138,744
3,139,559
3,139,560
3,140,425
3,142,000
3,142,783
3,147,404
3,148,310
3,149,266
3,150,288
3,151,277
3,151,278
3,155,881
3,158,788
3,159,770
3,160,790
3,161,805
3,162,788
103 : 3,130,352
3,130,353
104 : 3,123,744
3,134,931
3,150,289
105 : 3,142,001
107 : 3,136,925
108 : 3,132,289
111 : 3,137,807
113 : 3,142,784
114 : 3,154,722
116 : 3,135,895
118 : 3,151,279
119 : 3,119,051
3,120,628
3,120,629
3,134,050
3,134,051
3,142,002
3,144,587
3,144,588
3,146,379
3,147,405
3,148,311
3,150,290
3,155,882
3,158,789
3,159,771
3,160,791
120 : 3,122,681
3,140,426
3,142,003
3,148,312
123 : 3,129,359
3,131,331
3,132,290
3,134,052

123 : 3,150,291
3,154,723
3,156,850
124 : 3,128,413
3,129,360
3,151,280
3,162,789
130 : 3,118,087
3,131,332
3,134,053
3,136,926
3,151,281
3,154,724
131 : 3,117,253
132 : 3,130,354
3,155,883
3,161,806
134 : 3,128,414
3,139,561
3,160,792
137 : 3,118,088
3,118,089
3,118,090
3,121,189
3,122,682
3,134,054
3,134,055
3,144,589
3,155,884
3,160,793
138 : 3,142,785
3,144,590
139 : 3,123,745
3,124,722
3,129,361
3,150,292
3,160,794
140 : 3,121,827
3,129,362
141 : 3,117,254
3,131,333
3,131,334
3,150,293
142 : 3,124,723
3,125,707
3,128,415
3,142,004
3,144,591
3,154,725
3,154,726
3,158,790
3,163,803
146 : 3,125,708
3,128,416
3,147,406
3,147,407
3,147,408
147 : 3,135,896
3,138,745
148 : 3,136,927
.5 : 3,122,683
.5 : 3,123,746
.5 : 3,124,724
.5 : 3,131,335
.5 : 3,133,232
.5 : 3,135,897
.5 : 3,136,928
.5 : 3,139,562
.5 : 3,140,427
.5 : 3,140,428
.5 : 3,144,592
.5 : 3,150,294
.5 : 3,153,748
.5 : 3,158,791
.5 : 3,159,772
.5 : 3,160,795
.5 : 3,162,790
.5 : 3,163,804
149 : 3,119,953
3,120,630
3,135,898
3,154,727
150 : 3,154,728
151 : 3,157,829
152 : 3,121,190
153 : 3,133,233
154 : 3,118,091
3,126,501
3,140,429
3,142,005
3,159,773
155.5 : 3,128,417
.5 : 3,131,336
.5 : 3,147,409
157 : 3,120,631
3,121,191
3,149,267
3,153,176
3,156,851
.5 : RE.25,607
.5 : 3,143,689
158 : 3,121,192
3,123,747
158 : 3,123,748
3,124,725
3,124,726
3,130,355
3,134,933
3,136,929
3,140,430
3,142,786
3,146,380
3,150,295
3,157,830
3,158,792
3,158,793
3,158,794
3,161,807
3,161,808
3,161,809
159 : 3,121,193
3,122,684
3,135,899
3,142,006
3,142,007
3,142,787
3,145,326
3,149,268
3,150,296
3,153,177
164 : 3,139,563
165 : 3,117,255
3,128,418
3,133,234
3,134,056
3,141,115
3,144,593
3,147,410
3,153,749
3,157,831
3,159,774
166 : 3,117,256
171 : 3,121,194
3,139,564
3,140,431
3,143,690
3,146,381
3,153,178
3,160,796
172 : 3,139,565
3,158,795
177 : 3,142,788
185 : 3,134,932
3,145,327
186 : 3,117,257
3,119,954
187 : 3,158,796
188 : 3,154,729
189 : 3,142,789
191 : 3,134,934
3,142,790
3,152,289
192 : 3,136,930
195 : 3,148,313
197 : 3,146,382
3,147,411
3,152,290
3,163,805
198 : 3,129,363
200 : 3,117,258
3,118,092
3,136,931
3,139,566
3,140,432
3,141,116
3,141,117
3,142,008
3,152,291
3,152,292
3,162,791
201 : 3,134,057
3,149,269
203 : 3,126,502
3,127,544
3,139,567
3,158,797
3,162,792
230 : 3,124,727
3,124,728
3,126,503
3,131,337
3,138,746
3,139,568
3,141,118
3,146,383
231 : 3,117,259
3,123,749
3,126,504
3,143,691
3,157,832
3,158,798
3,160,797
3,163,806
234 : 3,118,093
3,119,052
3,121,828
234 : 3,122,685
3,125,709
3,128,419
3,134,058
3,134,935
3,136,932
3,142,791
3,145,328
3,145,329
3,146,384
3,150,297
3,150,298
3,152,293
3,153,750
3,153,751
3,155,885
3,157,833
3,159,775
3,160,798
3,161,810
3,161,811
235 : 3,117,260
3,118,094
3,123,750
3,126,505
3,138,747
3,141,119
3,150,299
3,152,294
3,153,752
3,155,886
3,160,799
3,160,800
236 : 3,119,053
237 : 3,121,829
3,147,412
3,147,413
240 : 3,147,414
241 : 3,127,545
242 : 3,137,808
3,159,776
243 : RE.25,644
244 : 3,156,852
245 : 3,155,887
3,161,812
246 : 3,123,751
3,134,936
3,148,314
249 : 3,119,955
3,125,710
3,133,235
3,153,753
3,157,834
253 : 3,129,364
3,131,338
258 : 3,121,830
3,148,315
3,150,300
3,153,179
3,155,888
3,156,853
3,160,801
260 : 3,134,059
3,143,692
3,150,301
3,153,180
3,156,854
3,163,807
261 : 3,118,095
3,130,356
262 : 3,124,729
3,146,385
3,147,415
3,150,678
3,157,835

Class 318

6 : 3,117,261
3,129,365
3,131,339
3,147,416
3,160,802
7 : 3,117,262
3,130,357
8 : 3,143,693
3,146,386
3,162,793
11 : 3,125,711
16 : 3,153,181
3,162,794
18 : 3,122,686
3,123,752
3,141,120
19 : 3,121,195
3,121,831
3,125,712
3,132,291
3,133,236
3,145,330
3,148,316
3,150,302
3,156,855
21 : 3,140,433
23 : RE.25,509
28 : RE.25,648
3,117,263
3,118,096
3,122,687
3,122,688
3,126,506
3,127,546
3,128,420
3,131,340
3,134,060
3,135,900
3,136,933
3,138,748
3,139,569
3,139,570
3,139,571
3,142,009
3,142,018
3,145,331
3,147,417
3,148,317
3,149,270
3,149,271
3,149,272
3,150,303
3,150,304
3,151,282
3,153,754
3,155,889
3,160,803
29 : 3,122,689
3,123,753
3,132,292
3,135,901
3,151,283
3,155,890
30 : 3,135,902
3,139,572
3,141,121
3,142,010
31 : 3,135,903
3,135,904
3,156,856
32 : 3,123,754
3,162,795
43 : 3,134,937
44 : 3,139,573
46 : 3,132,293
48 : 3,147,418
52 : 3,117,264
70 : 3,118,097
3,149,273
74 : 3,135,905
77 : 3,134,061
112 : 3,146,387
114 : 3,129,366
118 : 3,151,284
3,152,295
128 : 3,118,098
3,122,690
3,124,730
3,134,062
3,149,274
129 : 3,140,434
3,147,419
130 : 3,129,367
3,134,938
3,136,934
3,163,808
132 : 3,117,265
3,123,755
3,124,731
3,156,857
3,163,809
133 : 3,142,011
134 : 3,153,755
135 : 3,138,749
3,162,796
138 : 3,121,832
3,124,732
3,124,733
3,124,734
3,124,735
3,131,341
3,132,294
3,136,935
3,142,012
3,146,388
3,156,858
3,159,777
3,160,804
3,161,813
139 : 3,134,063
143 : 3,150,305
3,155,891
145 : 3,121,833
3,133,237
148 : 3,141,122
154 : 3,148,318
158 : 3,125,713
162 : 3,117,266
162 : 3,119,054
3,122,691
3,124,736
3,134,064
3,136,936
3,138,750
3,159,778
163 : 3,132,295
166 : 3,148,319
171 : 3,148,320
3,159,779
175 : 3,140,435
179 : 3,145,332
187 : 3,146,389
197 : 3,136,937
3,144,594
3,144,595
3,144,596
203 : 3,147,420
3,163,810
205 : 3,117,267
207 : 3,122,692
3,155,892
208 : 3,119,956
209 : 3,123,756
3,136,938
211 : 3,153,182
220 : 3,133,238
3,144,597
3,150,306
221 : 3,122,693
224 : 3,118,099
3,153,183
3,153,184
3,161,814
227 : 3,129,368
3,143,694
229 : 3,127,547
3,149,275
254 : 3,127,548
3,153,185
257 : 3,119,957
3,143,695
260 : 3,147,422
266 : 3,143,696
3,146,390
3,147,421
275 : 3,163,811
278 : 3,162,797
280 : 3,147,423
282 : 3,129,369
283 : 3,117,268
293 : 3,126,507
3,137,809
3,144,598
298 : 3,127,549
302 : 3,154,730
3,162,798
325 : 3,135,906
327 : 3,123,757
3,131,342
331 : 3,121,834
3,127,550
3,163,812
332 : 3,134,065
343 : 3,129,370
3,154,731
345 : 3,150,307
361 : 3,135,907
371 : 3,130,358
441 : 3,150,308
448 : 3,163,813
452 : 3,119,055
454 : 3,125,714
467 : 3,141,123
3,155,893
3,161,815
471 : 3,142,013
475 : 3,134,939
3,145,333
476 : 3,135,908
480 : 3,129,371
486 : 3,148,321
489 : 3,124,737
3,140,436
3,142,792
3,147,424

Class 320

1 : 3,127,551
3,134,066
3,141,124
3,146,391
3,154,732
2 : 3,120,632
3,127,552
3,143,697
13 : 3,118,100
15 : 3,129,372
3,153,186
25 : 3,129,373
26 : 3,118,101
30 : 3,133,239
36 : 3,123,758
39 : 3,130,359
3,160,805
40 : 3,117,269
3,123,769
43 : 3,148,322
61 : 3,151,285
68 : 3,138,751

Class 321

2 : 3,117,270
3,119,056
3,132,309
3,134,940
3,135,909
3,145,334
7 : 3,144,599
8 : 3,156,859
11 : 3,118,102
3,123,760
3,128,421
3,134,067
12 : 3,119,958
3,119,959
13 : 3,133,240
14 : 3,117,271
3,124,738
3,129,374
15 : 3,118,103
3,121,835
16 : 3,122,694
3,122,695
3,129,375
3,131,343
3,135,910
18 : 3,124,739
3,134,068
3,139,575
3,152,296
3,156,860
19 : 3,119,057
21 : 3,118,104
25 : 3,123,761
3,141,125
27 : 3,151,286
3,158,799
36 : 3,117,272
39 : 3,127,553
45 : 3,118,105
3,119,058
3,120,633
3,120,634
3,124,740
3,128,422
3,133,241
3,151,287
46 : 3,159,780
47 : 3,160,806
49 : 3,118,106
50 : 3,129,376
57 : 3,129,377
61 : 3,148,323
3,152,297
69 : 3,148,324
3,161,816

Class 322

2 : 3,118,107
3,119,059
9 : 3,142,793
20 : 3,122,696
24 : 3,121,836
25 : 3,130,360
28 : 3,121,837
3,129,378
3,151,288
3,154,733
3,159,781
3,161,817
3,161,818
32 : 3,121,838
58 : 3,132,296
59 : 3,132,297
73 : 3,136,939
3,136,940
3,137,810
3,137,811
3,152,298
75 : 3,140,437
90 : 3,150,309

Class 323

18 : 3,143,698
22 : 3,117,273
3,120,635
3,122,697
3,123,762
3,123,763
3,125,715
22 : 3,128,423
3,129,379
3,130,361
3,131,344
3,133,242
3,138,752
3,140,438
3,146,392
3,150,310
3,151,289
3,152,299
3,153,187
3,158,800
3,158,801
3,160,807
3,160,808
3,163,814
25 : 3,142,014
43.5 : 3,122,698
.5 : 3,129,382
.5 : 3,153,188
.5 : 3,154,734
45 : 3,129,380
3,162,799
47 : 3,128,424
3,161,819
48 : 3,129,383
3,143,699
51 : 3,137,812
3,142,794
3,148,325
53 : 3,120,636
56 : 3,117,274
3,123,764
3,146,393
3,148,326
58 : RE.25,574
3,151,290
60 : 3,128,440
3,162,800
61 : 3,119,060
66 : 3,153,189
3,155,894
3,156,861
3,161,820
3,162,801
69 : 3,126,508
3,143,700
3,150,311
74 : 3,117,275
3,123,765
3,126,509
3,145,335
75 : 3,121,839
3,127,555
3,152,300
3,152,301
3,161,821
76 : 3,155,895
79 : 3,162,802
83 : 3,122,699
85 : 3,139,576
89 : 3,122,700
3,122,701
3,129,381
3,135,911
3,136,941
3,138,753
3,140,439
3,143,701
3,150,312
3,157,836
3,162,803
3,163,815
90 : 3,147,425
93 : 3,142,795
3,146,394
94 : 3,147,426
3,162,804
3,162,805
95 : 3,155,896
96 : 3,138,754
101 : 3,130,362
102 : 3,139,577
122 : 3,125,716

Class 324

.5 : 3,122,702
.5 : 3,122,703
.5 : 3,124,741
.5 : 3,127,556
.5 : 3,128,425
.5 : 3,131,345
.5 : 3,133,243
.5 : 3,135,912
.5 : 3,137,813
.5 : 3,140,440
.5 : 3,145,336
.5 : 3,147,427
.5 : 3,147,428
.5 : 3,149,276
.5 : 3,150,313

Class 324—Con.

.5 : 3,153,756
.5 : 3,157,837
.5 : 3,158,802
.5 : 3,158,803
1 : Re.25,557
3,121,840
3,124,742
3,125,717
3,134,941
3,136,942
3,141,126
3,141,127
3,149,277
3,151,291
3,163,816
4 : 3,123,766
3,127,557
6 : 3,119,061
3,123,767
3,147,429
3,150,314
7 : 3,126,510
3,136,943
3,149,278
10 : 3,132,298
3,134,069
3,162,806
13 : 3,151,292
15 : 3,158,804
20 : 3,153,190
21 : 3,135,913
28 : 3,128,426
3,161,822
29 : 3,161,823
.5 : 3,125,718
30 : 3,124,743
3,131,346
3,134,070
3,151,293
3,159,783
32 : 3,121,196
33 : 3,124,744
3,126,511
3,126,512
3,128,427
3,144,600
3,149,279
3,160,809
34 : 3,125,719
3,127,558
3,130,363
3,132,299
3,139,578
3,140,441
3,152,302
3,153,191
3,156,862
3,158,805
3,159,784
3,161,824
37 : 3,146,395
38 : 3,146,396
40 : 3,135,914
3,152,303
43 : 3,127,559
3,133,244
3,136,944
3,149,280
3,159,785
45 : 3,118,108
51 : 3,125,720
3,131,347
3,141,128
3,153,757
3,158,806
52 : 3,155,897
3,163,817
53 : 3,145,337
54 : 3,134,071
3,135,915
3,147,430
3,156,863
3,156,864
55 : 3,153,758
57 : 3,119,062
3,139,579
3,163,818
58 : 3,119,063
3,133,245
3,136,945
3,145,338
3,156,865
3,161,825
3,162,807
.5 : 3,117,276
.5 : 3,133,246
.5 : 3,136,946
.5 : 3,144,601
.5 : 3,155,898
59 : 3,120,637
60 : 3,120,638
3,135,916
60 : 3,142,015
3,159,786
61 : 3,142,016
3,155,899
3,155,900
3,155,901
3,155,902
62 : 3,134,942
3,147,431
3,150,315
63 : 3,160,810
65 : 3,141,129
3,147,432
68 : Re.25,658
3,118,109
3,140,442
69 : 3,148,327
70 : 3,119,960
3,134,943
71 : 3,142,796
3,147,433
72 : 3,156,866
73 : 3,142,797
3,143,702
74 : 3,142,798
77 : 3,118,110
3,119,961
3,123,768
3,124,745
3,124,746
3,130,364
3,147,434
3,153,192
3,156,867
3,162,808
78 : 3,134,072
3,148,328
3,151,294
82 : 3,123,769
3,135,917
83 : 3,119,064
3,147,435
87 : 3,137,814
3,154,735
88 : 3,141,130
3,150,316
94 : 3,131,348
95 : 3,124,747
3,128,429
3,143,703
3,147,436
96 : 3,141,131
3,149,281
97 : 3,161,826
99 : 3,128,429
3,142,799
3,149,282
3,153,193
3,159,787
3,160,811
3,163,819
103 : 3,125,721
3,136,947
3,139,580
104 : 3,133,247
105 : 3,141,132
106 : 3,142,017
3,154,736
3,158 807
107 : 3,142,800
3,150,317
3,155,903
108 : 3,154,737
3,156,868
109 : 3,133,248
3,156,869
113 : 3,148,329
121 : 3,161,827
123 : 3,127,560
3,158,808
127 : 3,136,948
137 : 3,123,770
3,144,602
140 : 3,130,365
3,131,349
3,135,918
142 : 3,125,722
146 : 3,120,639
3,129,384
3,159,788
147 : 3,155,904
3,155,905
149 : 3,130,366
150 : 3,133,249
3,139,581
3,144,603
151 : 3,119,962
3,127,561
3,141,133
154 : 3,119,963
3,155,906
3,158,809
155 : 3,143,704
156 : 3,150,318
157 : 3,145,339
158 : 3,131,350
3,134,073
3,134,944
3,137,815
3,144,604
3,150,319
3,153,759

Class 325

2 : 3,144,605
3 : 3,150,320
3,151,295
4 : 3,144,606
3,163,820
5 : 3,144,607
6 : 3,117,277
9 : 3,123,771
13 : 3,118,111
15 : 3,128,430
3,152,304
16 : 3,120,640
3,132,300
18 : 3,138,755
3,155,907
20 : 3,153,194
21 : 3,146,397
25 : 3,162,809
26 : 3,118,112
28 : 3,150,321
30 : 3,119,964
3,121,197
3,144,608
3,149,283
3,160,812
31 : 3,126,513
3,143,705
35 : 3,124,748
3,155,908
36 : 3,162,810
38 : 3,125,723
3,129,385
3,144,609
3,163,821
41 : 3,145,340
3,154,738
42 : 3,161,828
49 : 3,147,437
50 : 3,152,305
51 : 3,155,909
54 : 3,131,351
58 : 3,160,813
60 : 3,136,949
64 : 3,124,749
3,131,352
65 : 3,117,278
3,133,250
67 : 3,120,641
3,123,772
3,123,773
3,149,284
3,153,760
3,160,814
102 : 3,148,330
3,153,195
111 : 3,128,431
113 : 3,132,301
118 : 3,134,074
3,134,075
121 : 3,162,811
134 : 3,146,398
138 : 3,136,950
141 : 3,151,296
142 : 3,124,750
143 : 3,153,196
148 : 3,137,816
152 : 3,161,829
154 : 3,125,724
159 : 3,141,134
163 : 3,158,810
3,162,812
174 : 3,117,279
3,129,386
180 : 3,119,965
184 : 3,154,739
187 : 3,139,582
308 : 3,130,367
312 : 3,134,945
319 : 3,119,966
3,121,198
3,138,756
3,154,740
320 : 3,135,919
323 : 3,119,967
330 : 3,120,642
335 : 3,140,443
340 : 3,137,817
346 : 3,160,815
351 : 3,117,280
361 : 3,162,813
362 : 3,133,251
3,139,584
3,143,706
363 : 3,122,704
3,147,438
3,154,741
364 : 3,130,368
3,130,369
3,144,610
3,147,439
3,153,197
3,153,761
393 : 3,133,252
402 : 3,159,789
404 : 3,143,707
419 : 3,124,751
420 : 3,135,920
3,150,322
421 : 3,163,822
3,163,823
424 : 3,153,198
428 : 3,119,065
429 : 3,135,921
3,151,297
430 : 3,150,323
436 : 3,130,370
440 : 3,146,399
445 : 3,140,444
446 : 3,138,757
3,158,811
447 : 3,128,432
449 : 3,117,281
3,125,725
3,131,353
3,139,583
3,148,331
3,159,790
451 : 3,127,562
3,141,135
461 : 3,135,922
465 : 3,154,742
466 : 3,121,841
3,122,705
3,127,563
3,131,354
472 : 3,145,341
3,147,440
475 : 3,160,816
476 : 3,119,066
477 : 3,119,067
478 : 3,140,445
3,140,446
3,155,910
3,162,814
479 : 3,126,514
482 : 3,124,752
485 : 3,117,282
3,118,113
3,147,441
3,148,332
486 : 3,144,611
489 : 3,159,791
491 : 3,136,951
492 : 3,142,801
496 : 3,120,643

Class 328

1 : 3,123,774
15 : 3,140,447
19 : 3,133,253
22 : 3,125,726
25 : 3,128,433
26 : 3,143,708
27 : 3,128,434
3,146,400
28 : 3,151,298
32 : 3,123,775
34 : 3,119,068
3,153,199
3,161,830
41 : 3,147,442
42 : 3,158,812
43 : 3,149,285
44 : 3,159,792
45 : 3,156,870
48 : 3,148,333
3,154,743
50 : 3,149,286
54 : 3,117,283
3,130,371
3,151,299
55 : 3,137,818
3,142,802
3,153,200
56 : 3,150,324
3,158,813
3,160,817
57 : 3,121,842
58 : 3,138,758
3,163,824
59 : 3,132,302
61 : 3,124,753
62 : 3,162,815
63 : 3,137,819
3,153,762
3,156,871
63 : 3,162,816
65 : 3,124,754
3,139,585
66 : 3,160,818
67 : 3,119,968
3,139,586
3,161,831
69 : 3,119,069
86 : 3,163,825
91 : 3,162,817
92 : 3,145,342
3,145,343
3,148,334
3,154,744
93 : 3,134,946
3,160,819
96 : 3,127,564
97 : 3,153,763
99 : 3,159,793
102 : 3,155,911
104 : 3,133,254
108 : 3,155,912
110 : 3,122,706
112 : 3,138,759
114 : 3,119,070
115 : 3,128,435
3,147,443
116 : 3,123,776
3,125,727
3,138,760
120 : 3,131,355
3,160,820
121 : 3,138,761
3,147,444
3,157,838
124 : 3,135,923
127 : 3,127,565
3,138,762
3,142,803
128 : 3,121,199
133 : 3,121,843
3,134,076
3,142,804
3,143,709
3,144,612
3,154,745
134 : 3,124,755
3,145,344
140 : 3,136,952
3,149,287
142 : 3,143,710
143 : 3,121,200
145 : 3,131,356
147 : 3,146,401
150 : 3,138,763
151 : 3,154,746
155 : 3,160,821
158 : 3,141,136
164 : 3,142,805
165 : 3,117,284
3,154,747
169 : 3,149,288
3,162,818
171 : 3,139,587
172 : 3,144,613
177 : 3,139,588
182 : 3,138,764
185 : 3,159,794
187 : 3,119,071
206 : 3,144,614
210 : 3,158,814
215 : 3,158,815
248 : 3,132,303
258 : 3,137,820
271 : 3,132,304

Class 329

50 : 3,158,816
101 : 3,145,345
103 : 3,163,826
107 : 3,142,806
117 : 3,122,707
3,155,913
3,160,822
119 : 3,158,817
126 : 3,136,953
3,146,402
130 : 3,130,372
133 : 3,128,437
135 : 3,137,821
144 : 3,154,748
145 : 3,162,819
150 : 3,153,201
161 : 3,135,924
166 : 3,119,072
169 : 3,122,708
3,154,749
178 : 3,161,832
204 : 3,137,822

Class 330

1 : 3,131,357
2 : 3,134,077
3,159,795
3 : 3,121,201
3,123,777
3,134,078
3,163,827
4 : 3,135,925
3,139,589
.3 : 3,154,751
.6 : 3,131,358
.6 : 3,144,615
.6 : 3,146,403
.6 : 3,150,325
.7 : 3,122,709
.7 : 3,122,710
.7 : 3,124,756
.7 : 3,131,359
.7 : 3,138,765
.7 : 3,147,445
.9 : 3,119,073
.9 : 3,120,644
.9 : 3,122,711
.9 : 3,127,566
.9 : 3,155,914
5 : 3,119,074
6 : 3,160,823
8 : 3,131,360
3,137,823
3,153,764
9 : 3,130,373
3,139,590
3,145,346
3,147,446
3,153,202
10 : 3,121,844
3,146,404
3,148,335
3,155,915
12 : 3,120,645
14 : 3,142,019
3,154,750
15 : 3,142,807
17 : 3,124,757
3,163,828
18 : 3,124,758
3,157,839
19 : 3,124,759
3,140,448
3,148,336
21 : 3,150,326
24 : 3,143,711
3,161,833
3,163,829
27 : 3,156,872
3,157,840
28 : 3,130,374
3,148,337
3,160,824
29 : 3,123,778
3,124,760
3,141,137
3,148,338
3,158,818
30 : 3,153,203
31 : 3,119,075
34 : 3,127,567
35 : 3,158,819
38 : 3,118,114
3,135,926
39 : 3,142,020
3,142,021
40 : 3,162,821
43 : 3,144,616
46 : 3,120,646
3,132,305
47 : 3,119,969
49 : 3,160,825
51 : 3,124,761
3,145,347
3,151,300
53 : 3,117,285
54 : 3,127,568
3,129,387
3,155,916
56 : 3,122,712
3,153,765
61 : 3,141,138
3,160,826
62 : 3,119,076
65 : 3,117,286
69 : 3,121,845
3,123,779
3,148,339
3,156,873
70 : 3,124,762
3,132,306
74 : 3,123,780
78 : 3,124,763
79 : 3,128,436
85 : 3,155,917
86 : 3,117,287
98 : 3,151,301
100 : 3,140,449
102 : 3,134,080
109 : 3,131,361
111 : 3,135,927
119 : 3,139,591
121 : 3,132,307
122 : 3,122,713
3,127,569
3,153,766
123 : 3,119,970
3,129,388
3,138,766
126 : 3,150,327
138 : 3,159,796
144 : 3,132,308
145 : 3,119,077
3,151,302
159 : 3,155,918
167 : 3,160,827
180 : 3,147,447
181 : 3,122,714
398 : 3,141,146

Class 331

3 : 3,129,389
3,159,797
4 : 3,142,022
3,147,448
3,158,820
5 : 3,139,592
6 : 3,125,728
3,136,954
8 : 3,129,390
3,136,955
11 : 3,121,202
3,130,375
14 : 3,136,956
16 : 3,120,647
18 : 3,130,376
19 : 3,132,310
3,137,824
3,139,593
3,155,919
20 : 3,127,570
22 : 3,126,515
27 : 3,156,874
38 : 3,119,078
3,134,081
3,149,289
39 : 3,125,729
40 : 3,127,571
3,140,450
42 : 3,159,798
45 : 3,137,825
3,141,139
3,142,023
49 : 3,121,846
3,146,405
52 : 3,136,957
3,143,712
3,143,713
55 : 3,125,730
3,127,572
56 : 3,148,340
3,155,920
60 : 3,131,362
3,137,826
3,142,024
62 : 3,119,971
3,136,958
3,161,834
65 : 3,161,835
69 : 3,158,821
71 : 3,141,140
75 : 3,128,438
78 : 3,148,341
3,163,830
87 : 3,127,573
3,135,928
94.5 : 3,136,959
.5 : 3,137,827
.5 : 3,140,451
.5 : 3,144,617
.5 : 3,149,290
.5 : 3,153,204
.5 : 3,162,822
97 : 3,162,823
98 : 3,124,764
101 : 3,140,452
107 : 3,127,574
3,141,141
3,144,618
3,162,824
108 : 3,130,377
3,133,255
3,162,825
109 : 3,117,288
3,134,947
3,144,619
3,150,328
3,157,841
110 : 3,157,841
111 : 3,130,378
3,144,620
3,156,875

111 : 3,158,822
3,160,828
112 : 3,156,876
3,159,799
3,161,836
113 : 3,117,289
3,118,115
3,119,972
3,127,575
3,127,576
3,133,256
3,133,257
3,134,948
3,142,025
3,144,621
3,145,348
3,146,406
3,149,291
3,150,329
3,152,306
3,154,752
3,156,877
3,157,842
3,159,800
3,160,829
3,160,830
3,161,837
115 : 3,153,205
116 : 3,152,307
3,152,308
3,163,831
117 : 3,119,973
3,155,921
129 : 3,124,765
135 : 3,144,622
136 : 3,146,407
144 : 3,138,767
3,141,142
152 : 3,140,453
161 : 3,118,116
173 : 3,139,594
178 : 3,135,929
3,140,454
3,144,623
179 : 3,155,922
183 : 3,150,330

Class 332

1 : 3,146,408
5 : 3,149,292
7 : 3,150,331
9 : 3,126,516
3,141,143
11 : 3,127,554
3,131,363
12 : 3,131,364
3,136,960
3,139,595
3,147,449
3,150,332
15 : 3,136,961
3,149,293
16 : 3,129,391
3,145,349
17 : 3,148,342
19 : 3,124,766
3,156,878
20 : 3,145,350
22 : 3,118,117
26 : 3,154,753
29 : 3,127,577
3,153,206
30 : 3,134,949
3,139,596
3,159,801
31 : 3,157,843
37 : 3,159,802
39 : 3,145,351
43 : 3,122,715
45 : 3,117,290
47 : 3,119,079
3,124,767
51 : 3,143,714
52 : 3,119,080
3,121,203

Class 333

1 : 3,117,291
.1 : 3,136,962
.1 : 3,162,826
2 : 3,161,838
3,162,827
6 : 3,140,455
3,156,879
3,162,828
7 : 3,129,392
3,130,379
3,131,365
3,132,311
3,136,963
3,145,352
3,154,754
7 : 3,155,923
3,155,924
3,155,925
3,157,844
8 : 3,143,715
3,146,409
3,160,831
9 : 3,121,847
3,123,781
3,124,768
3,140,456
3,150,333
10 : 3,121,848
3,125,731
3,136,964
13 : 3,147,450
17 : 3,160,832
3,160,833
21 : 3,146,410
3,157,845
22 : 3,121,204
3,147,451
3,158,823
23 : 3,135,930
24 : 3,146,411
.1 : 3,134,082
.1 : 3,140,457
.2 : 3,121,849
.2 : 3,125,732
.2 : 3,128,439
.2 : 3,131,366
.2 : 3,135,931
.2 : 3,142,026
.2 : 3,145,353
.3 : 3,150,334
26 : 3,129,393
27 : 3,129,394
29 : 3,135,932
3,147,452
30 : 3,127,578
3,129,395
3,133,258
3,141,144
3,145,354
3,145,355
3,146,412
3,148,343
3,150,335
3,155,926
3,160,834
31 : 3,118,118
3,120,648
3,131,367
3,132,312
3,139,597
3,146,413
3,153,767
3,161,839
3,163,832
32 : 3,132,313
3,155,927
33 : 3,118,119
3,150,336
34 : 3,126,517
3,145,356
3,146,414
70 : 3,129,396
3,133,259
3,148,344
3,149,294
3,153,207
71 : 3,131,368
3,135,933
3,150,337
72 : 3,142,027
3,146,415
73 : 3,130,380
3,137,828
3,142,028
3,142,808
3,143,716
3,144,624
3,153,208
3,153,209
3,153,768
3,156,880
75 : 3,122,716
3,155,928
79 : 3,117,292
3,125,733
3,141,145
3,163,833
3,163,834
80 : 3,152,309
3,160,835
81 : 3,119,081
3,134,950
3,135,934
3,144,625
3,155,929
3,157,846
83 : 3,118,120
3,119,082
3,119,083
83 : 3,121,205
3,125,734
3,158,825
3,159,803
3,161,840
3,163,835
84 : 3,117,379
3,135,935
95 : 3,121,206
3,134,951
3,136,965
3,157,847
3,158,824
96 : 3,151,925
3,163,836
97 : 3,121,850
3,138,768
3,143,717
3,155,930
98 : 3,119,974
3,121,207
3,123,782
3,127,579
3,131,369
3,132,314
3,138,769
3,138,770
3,149,295
3,156,881
3,156,882

Class 334

7 : 3,163,837
15 : 3,117,293
21 : 3,136,966
3,159,782
22 : 3,131,370
24 : 3,161,841
40 : 3,146,416
43 : 3,154,755
51 : 3,144,626
3,148,345
3,150,338
56 : 3,156,883
68 : 3,135,936
3,156,884
74 : 3,147,453

Class 336

20 : 3,147,454
30 : 3,118,121
3,126,518
3,128,441
3,132,315
3,143,718
3,143,719
3,151,303
3,152,310
3,153,210
3,158,826
3,160,836
55 : 3,123,783
3,144,627
3,163,838
57 : 3,137,829
3,137,830
58 : 3,123,784
3,151,304
61 : 3,142,809
3,150,339
3,160,837
69 : 3,146,417
3,160,838
75 : 3,142,810
3,161,842
83 : 3,162,829
84 : 3,130,381
3,142,029
3,149,296
3,160,839
92 : 3,119,084
3,125,735
3,138,771
94 : 3,132,316
3,145,357
96 : 3,119,085
3,148,346
3,160,840
3,161,843
100 : 3,125,736
105 : 3,134,952
110 : 3,151,305
3,157,848
123 : 3,148,347
130 : 3,121,851
3,132,317
131 : 3,141,147
132 : 3,152,311
133 : 3,127,580
3,147,455
3,154,756
134 : 3,118,122
134 : 3,146,418
3,155,931
135 : 3,123,785
3,128,044
136 : 3,119,975
3,129,397
3,129,398
3,133,260
3,135,937
3,138,772
3,153,211
137 : 3,160,841
149 : 3,128,442
3,136,967
3,153,212
3,160,842
150 : 3,157,849
155 : 3,123,786
3,143,720
3,155,932
160 : 3,128,443
165 : 3,135,938
172 : 3,132,318
173 : 3,147,456
174 : 3,160,843
175 : 3,154,757
178 : 3,150,340
179 : 3,152,312
180 : 3,120,649
182 : 3,144,628
187 : 3,145,358
3,159,804
192 : 3,117,294
3,131,371
3,131,372
3,146,419
3,153,213
3,163,839
3,163,840
195 : 3,140,458
197 : 3,127,581
3,156,885
199 : 3,135,939
205 : 3,138,773
207 : 3,142,030
208 : 3,162,830
209 : 3,149,297
210 : 3,138,774
211 : 3,154,758
212 : 3,129,399
3,146,420
3,156,886
213 : 3,153,214
216 : 3,157,850
217 : 3,153,215
223 : 3,137,831
3,153,216
229 : 3,123,787
234 : 3,137,832

Class 338

2 : 3,124,769
3,134,953
3,138,775
3,150,341
3,161,844
3 : 3,158,827
4 : 3,122,717
3,123,788
3,139,598
3,160,844
5 : 3,124,770
3,130,382
3,130,383
3,131,373
3,151,306
6 : 3,132,319
3,137,833
3,137,834
13 : 3,123,789
3,124,771
3,148,348
3,153,217
3,155,933
3,155,934
3,156,887
18 : 3,119,086
3,121,208
3,139,599
19 : 3,117,295
3,117,296
3,117,297
3,121,852
20 : 3,142,811
21 : 3,162,831
22 : 3,124,772
3,149,298
28 : 3,123,790
3,132,320
3,138,776
3,144,629
3,147,457
3,153,769
28 : 3,158,828
31 : 3,148,349
32 : 3,131,374
3,134,083
3,139,600
3,149,299
3,161,845
35 : 3,121,853
37 : 3,157,851
40 : 3,123,791
3,126,519
3,145,359
41 : 3,136,968
3,136,969
3,145,360
42 : 3,136,970
46 : 3,145,361
62 : 3,119,087
66 : 3,134,954
67 : 3,135,940
3,161,846
69 : 3,125,737
3,125,738
3,160,845
85 : 3,162,832
89 : 3,162,833
99 : 3,125,739
100 : 3,123,792
103 : 3,121,209
106 : 3,159,805
108 : 3,118,123
115 : 3,150,342
129 : 3,127,582
143 : RE.25,674
3,119,088
3,119,976
3,139,601
3,148,350
149 : 3,121,210
3,156,888
150 : RE.25,510
3,124,773
151 : 3,156,889
154 : 3,123,793
3,140,459
158 : 3,151,307
162 : 3,124,774
3,129,400
3,134,084
3,154,759
163 : 3,124,775
3,142,812
172 : 3,123,794
3,123,795
3,161,847
173 : 3,121,854
174 : 3,119,089
3,123,796
3,124,776
3,124,777
3,127,583
3,132,321
3,150,343
3,156,890
175 : 3,124,778
176 : 3,139,602
180 : 3,124,779
3,124,780
3,134,085
3,134,955
3,135,941
3,136,971
3,149,300
3,158,829
3,161,848
183 : 3,138,777
3,161,849
184 : 3,151,308
190 : 3,153,218
195 : 3,161,850
196 : 3,134,086
201 : 3,142,813
202 : 3,120,650
214 : 3,152,313
219 : 3,142,031
237 : 3,155,935
269 : 3,151,309
273 : 3,122,718
3,129,401
3,134,956
3,136,972
3,136,973
3,153,219
292 : 3,163,841
303 : 3,145,362
308 : 3,142,814
309 : 3,140,460
312 : 3,117,298
317 : 3,118,124
3,163,842
318 : 3,119,977
323 : 3,156,891
329 : 3,150,344
3,155,936
332 : 3,134,087

Class 339

2 : 3,129,989
4 : 3,132,911
5 : 3,123,420
3,136,590
8 : 3,123,421
12 : 3,118,713
3,131,012
3,146,049
14 : 3,118,714
3,120,414
3,126,239
3,128,138
3,131,013
3,134,631
3,144,287
3,148,926
3,148,927
3,149,893
3,159,443
15 : 3,127,227
17 : RE.25,591
3,120,415
3,127,228
3,129,990
3,129,991
3,133,773
3,133,774
3,136,591
3,138,417
3,140,137
3,140,907
3,144,288
3,147,054
3,149,894
3,149,895
3,158,418
3,160,455
18 : 3,129,044
3,129,045
3,133,775
3,137,534
3,146,050
3,151,923
3,152,849
3,158,419
3,162,500
19 : 3,140,908
22 : 3,124,403
3,126,240
3,126,241
3,148,008
26 : 3,128,139
28 : 3,128,140
31 : 3,120,985
3,131,984
3,151,924
34 : 3,124,404
35 : 3,129,046
3,141,715
36 : 3,147,055
3,147,056
37 : 3,129,992
3,131,985
38 : 3,131,014
39 : 3,154,359
45 : 3,119,645
3,120,416
3,120,986
3,122,403
3,150,906
3,156,511
3,156,512
3,156,513
3,159,444
47 : 3,146,051
49 : 3,129,993
3,157,448
50 : 3,138,418
52 : 3,122,404
3,122,405
56 : 3,144,289
59 : 3,138,419
3,143,384
60 : 3,120,987
3,121,598
3,124,405
3,125,391
61 : 3,137,535
3,138,420
3,141,716
3,150,907
3,153,561
62 : 3,126,242
64 : 3,132,912
3,133,776
66 : 3,116,959
3,141,717
3,157,449
67 : 3,119,646
74 : 3,159,445
75 : 3,123,422
3,145,067
3,149,896
3,163,481
80 : 3,161,450
82 : 3,159,446
88 : 3,154,360
89 : 3,124,406
3,147,057
3,152,850
91 : 3,121,599
3,133,777
3,146,052
3,150,908
3,154,361
3,160,457
3,161,451
92 : 3,160,456
93 : 3,120,417
94 : 3,157,450
95 : 3,122,406
3,125,392
3,129,047
3,129,994
3,138,421
3,144,290
3,152,851
96 : 3,158,420
97 : 3,117,829
3,128,141
3,129,048
3,129,995
3,131,015
3,132,913
3,139,314
3,140,138
3,146,053
3,147,058
3,150,909
3,154,362
3,156,514
3,163,482
3,163,483
98 : 3,118,715
3,142,524
3,162,501
99 : 3,127,229
3,139,315
3,148,009
3,151,926
3,154,363
101 : 3,157,451
103 : 3,121,600
3,125,393
3,137,536
3,141,718
3,148,928
108 : 3,144,291
109 : 3,132,914
3,142,525
111 : 3,125,394
3,126,243
112 : 3,141,719
3,152,852
113 : 3,146,054
118 : 3,127,230
126 : 3,120,418
3,142,526
128 : 3,116,960
3,144,292
131 : 3,161,452
144 : 3,162,502
146 : 3,131,986
147 : 3,160,458
149 : 3,119,647
3,129,049
3,155,445
159 : 3,156,515
164 : 3,131,987
168 : 3,120,419
176 : RE.25,595
3,118,716
3,120,988
3,125,395
3,131,016
3,137,537
3,141,720
3,141,721
3,146,055
3,148,929
3,149,897
3,154,364
3,154,365
3,155,446
3,157,452
3,158,421
3,159,447
3,160,459
3,160,460
177 : 3,161,453
182 : 3,135,571
183 : 3,148,010
3,158,422
184 : 3,123,423

Class 339—Con.
184 : 3,149,898
186 : 3,136,592
188 : 3,139,316
192 : 3,126,244
3,140,139
193 : 3,131,988
3,147,059
194 : 3,147,060
195 : 3,123,424
3,134,632
196 : 3,148,930
198 : 3,123,425
3,128,142
3,135,572
3,150,910
3,154,366
3,155,447
3,157,453
200 : 3,145,068
201 : 3,155,448
213 : 3,124,407
3,158,423
217 : 3,122,407
3,125,396
3,134,633
3,142,527
3,143,385
3,155,449
3,156,516
3,158,424
218 : 3,140,140
3,145,069
3,148,011
219 : 3,118,717
3,118,718
220 : 3,124,408
3,133,778
3,152,853
3,156,517
221 : 3,148,925
222 : 3,136,593
223 : 3,128,143
3,157,454
226 : 3,118,719
3,126,245
237 : 3,152,854
242 : 3,133,779
244 : 3,144,293
246 : 3,141,722
3,152,855
249 : 3,129,996
3,140,909
251 : 3,123,426
3,139,317
252 : 3,123,427
3,141,723
3,143,386
254 : 3,150,911
256 : 3,120,989
3,123,428
3,140,141
3,141,724
3,148,012
3,157,455
258 : 3,123,429
3,129,050
3,133,780
3,139,318
3,149,899
3,152,856
3,155,450
3,158,425
3,162,503
3,163,484
259 : 3,120,990
3,131,017
3,152,857
265 : 3,121,601
266 : 3,118,720
3,138,422
268 : 3,123,430
272 : 3,124,409
3,125,397
3,125,398
3,133,781
3,163,485
273 : 3,122,408
3,138,423
3,143,387
275 : 3,121,602
276 : 3,123,431
3,140,142

Class 340
1 : 3,121,855
3,122,719
3,123,797
3,140,461
3,163,843
2 : 3,119,090
3,132,322
2 : 3,144,630
3 : 3,119,091
3,119,092
3,121,856
3,122,720
3,123,798
3,127,584
3,129,402
3,135,942
3,142,032
3,142,033
3,144,631
3,145,363
3,145,364
3,153,220
3,153,770
3,158,830
3,159,806
3,160,846
4 : 3,160,847
5 : 3,130,384
3,133,261
3,135,943
3,144,632
3,145,365
3,150,345
3,158,831
6 : 3,130,385
3,155,937
3,159,807
3,160,848
3,160,849
3,160,850
3,161,851
3,163,844
7 : 3,133,262
8 : 3,121,211
3,126,520
3,137,835
3,142,034
3,149,301
3,150,346
9 : 3,135,944
3,141,148
10 : 3,137,836
3,139,603
3,142,035
3,150,347
12 : 3,118,125
3,121,212
3,129,403
13 : 3,137,837
3,140,462
15 : 3,128,444
3,138,778
.5 : 3,123,799
.5 : 3,124,781
.5 : 3,127,585
.5 : 3,129,404
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.5 : 3,131,375
.5 : 3,134,957
.5 : 3,134,958
.5 : 3,136,974
.5 : 3,142,815
.5 : 3,147,458
.5 : 3,147,459
.5 : 3,149,302
.5 : 3,149,303
.5 : 3,150,348
.5 : 3,152,314
.5 : 3,153,221
.5 : 3,153,771
.5 : 3,154,760
.5 : 3,156,892
.5 : 3,158,832
.5 : 3,159,808
.5 : 3,163,845
.5 : 3,163,846
16 : 3,148,351
17 : 3,118,126
3,119,978
3,153,772
3,157,852
3,158,833
18 : 3,118,127
3,136,975
3,148,352
3,149,304
21 : 3,149,305
23 : 3,123,800
3,152,315
24 : 3,125,741
3,151,310
3,160,851
25 : 3,121,857
3,122,721
3,133,263
3,139,604
26 : Re.25,666
3,117,299
3,126,521
3,134,959
3,138,779
26 : 3,152,316
3,158,834
27 : 3,117,300
3,118,128
3,128,445
3,132,323
3,134,088
3,157,853
3,161,852
3,162,834
31 : 3,137,838
3,142,816
34 : 3,152,317
3,158,835
35 : 3,120,651
3,121,213
3,128,446
37 : 3,146,421
3,150,349
39 : 3,126,522
40 : 3,119,093
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41 : 3,149,306
42 : 3,144,633
44 : 3,134,089
3,141,149
47 : 3,117,301
50 : 3,117,302
51 : 3,158,836
52 : 3,119,979
3,123,801
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53 : 3,121,214
56 : 3,128,447
58 : 3,155,938
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60 : 3,127,586
71 : 3,157,854
73 : 3,162,836
74 : 3,125,742
79 : 3,123,802
83 : 3,133,265
84 : 3,142,038
3,143,721
3,143,722
87 : 3,128,448
107 : 3,161,853
114 : 3,153,773
119 : 3,153,774
146.1 : 3,119,094
.1 : 3,121,215
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.2 : 3,142,817
.2 : 3,145,366
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.3 : Re.25,679
.3 : 3,118,129
.3 : 3,119,980
.3 : 3,123,804
.3 : 3,127,588
.3 : 3,133,266
.3 : 3,136,976
.3 : 3,140,466
.3 : 3,142,039
.3 : 3,142,040
.3 : 3,142,818
.3 : 3,145,367
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146.3 : 3,157,855
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147 : 3,117,303
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149 : 3,127,589
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163 : 3,119,981
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166 : 3,117,304
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.5 : Re.25,599
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.5 : 3,142,041
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3,141,153
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183 : 3,125,750
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187 : 3,117,310
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188 : 3,153,780
196 : 3,140,475
197 : 3,157,869
198 : 3,156,907
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213 : 3,126,536
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237 : 3,135,950
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264 : 3,121,865
265 : 3,160,870
267 : 3,123,814
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269 : 3,127,596
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270 : 3,119,991
271 : 3,120,655
274 : 3,147,468
276 : 3,133,276
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278 : 3,133,277
279 : 3,163,856
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309.1 : 3,122,730
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311 : 3,122,731
316 : 3,117,312
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322 : 3,163,857
323 : 3,140,476
324 : 3,130,397
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325 : 3,142,054
330 : 3,159,827
336 : 3,146,436
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337 : 3,128,458
339 : 3,123,815
345 : 3,122,732
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347 : 3,119,105
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3,147,474

347 : 3,148,366
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348 : 3,149,324
350 : 3,123,820
352 : 3,133,280
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365 : 3,119,996
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373 : 3,146,440
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380 : 3,144,643
384 : 3,137,846
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3,160,877
388 : 3,125,752
392 : 3,127,602
399 : 3,162,850
405 : 3,121,220

Class 343

5 : 3,117,313
3,121,221
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3,121,868
3,128,460
3,129,422
3,134,100
3,143,732
3,145,378
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3,150,363
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3,153,784
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3,154,778
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3,159,830
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3,161,870
6 : 3,121,223
3,130,401
3,131,018
3,140,482
3,146,442
3,151,323
3,153,232
3,159,831
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.5 : 3,122,737
.5 : 3,125,753
.5 : 3,136,991
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6.5 : 3,145,380
.5 : 3,161,872
.5 : 3,163,860
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.8 : 3,155,966
.8 : 3,160,884
7 : 3,117,314
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3,141,161
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.4 : 3,127,604
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.4 : 3,134,972
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.5 : 3,159,832
.7 : 3,120,659
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8 : 3,117,316
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9 : 3,126,540
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11 : 3,120,660
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11 : 3,134,975
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12 : 3,129,424
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3,144,645
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13 : 3,117,317
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.7 : 3,162,854
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3,151,324
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3,152,328
3,152,329
3,153,235
3,153,236
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3,158,862
3,159,836
3,160,883
3,161,879
100 : 3,124,799
3,133,282
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3,137,853
3,140,490
3,141,165
3,142,061
3,142,837

100 : 3,144,647
3,144,648
3,145,383
3,146,447
3,150,371
3,151,326
3,153,787
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103 : 3,126,545
105 : 3,117,319
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106 : 3,124,800
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3,144,649
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107 : 3,128,464
3,130,407
3,131,392
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108 : 3,136,997
3,157,877
112 : 3,119,107
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3,132,341
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3,134,977
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3,137,855
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3,150,372
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113 : 3,118,141
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3,130,409
3,135,958
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3,149,335
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114 : 3,131,393
115 : 3,119,108
117 : 3,138,800
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3,150,373
3,156,915
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118 : 3,118,142
120 : 3,118,143
3,161,881
124 : 3,142,838
200 : 3,118,144
3,158,864
203 : 3,162,857
204 : 3,150,374
225 : 3,118,145
3,128,465
701 : 3,126,546
702 : 3,117,320
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704 : 3,146,449
705 : 3,128,466
3,132,342
3,139,619
3,151,327
3,152,330
3,142,063
708 : 3,127,609
3,128,467
709 : 3,121,229
3,134,978
3,141,168
3,158,865
713 : 3,154,786
720 : 3,125,757
3,142,064
723 : 3,146,450
730 : 3,139,620
3,141,169
742 : 3,123,826
3,151,328
749 : 3,145,384
752 : 3,163,863
753 : 3,146,451
3,162,858
756 : 3,119,109
3,137,000
3,148,370
758 : 3,146,452

765 : 3,147,478
3,153,789
768 : 3,122,744
3,135,959
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3,150,375
770 : 3,121,230
771 : 3,137,856
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777 : 3,160,887
778 : 3,146,453
781 : 3,145,385
782 : 3,133,284
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785 : 3,155,975
791 : 3,153,239
792 : 3,159,838
.5 : 3,123,827
.5 : 3,127,611
.5 : 3,127,612
.5 : 3,134,979
.5 : 3,147,479
.5 : 3,150,376
797 : 3,143,737
806 : 3,148,371
809 : 3,163,864
814 : 3,155,976
815 : Re.25,604
819 : 3,122,745
3,159,839
844 : 3,130,410
848 : 3,146,454
3,147,480
854 : 3,124,801
3,137,002
858 : 3,135,960
859 : 3,122,746
866 : 3,122,747
872 : 3,125,758
876 : 3,124,802
880 : 3,129,427
882 : 3,158,866
895 : 3,131,394
911 : 3,133,285
912 : 3,140,491

Class 346

1 : 3,129,051
3,132,915
3,133,782
3,134,634
3,135,573
3,136,594
3,140,143
3,155,451
7 : 3,140,910
8 : 3,136,595
3,141,725
14 : 3,116,961
3,118,721
3,148,931
17 : 3,134,635
3,140,144
3,149,900
18 : 3,137,538
20 : 3,148,013
3,158,426
22 : 3,121,603
3,121,604
3,148,932
3,150,912
23 : 3,135,574
3,141,726
3,153,562
3,162,504
24 : 3,147,061
25 : 3,151,927
29 : 3,141,727
3,145,070
3,160,461
3,160,462
31 : 3,140,911
3,155,452
32 : 3,148,014
3,161,454
33 : 3,125,399
3,129,997
3,138,424
3,154,367
3,158,427
3,159,448
3,160,463
3,162,505
3,163,486
3,163,487
3,163,488
34 : 3,118,722
3,125,400
3,133,783
3,139,319
35 : 3,135,575
40 : 3,133,784
45 : 3,161,455

Class 346—Con.

46 : 3,158,428
49 : 3,124,410
50 : 3,138,425
3,161,456
52 : 3,158,429
59 : 3,120,420
62 : 3,132,916
68 : 3,154,368
72 : 3,160,464
74 : 3,119,110
3,120,001
3,120,662
3,121,872
3,121,873
3,121,874
3,124,803
3,124,804
3,125,759
74 : 3,126,547
3,126,548
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3,130,411
3,131,395
3,137,003
3,137,857
3,141,170
3,142,065
3,142,840
3,144,650
3,144,651
3,145,386
3,146,455
3,148,372
3,149,337
3,153,240
3,153,241
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74 : 3,156,918
3,156,919
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3,161,882
3,161,883
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3,162,860
75 : 3,152,858
76 : 3,145,071
3,146,056
3,161,457
3,163,489
77 : 3,116,962
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3,131,019
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3,149,901
3,154,369
3,158,430
78 : 3,129,998
3,157,456
80 : 3,150,913
82 : 3,155,453
85 : 3,133,785
86 : 3,156,518
101 : 3,138,426
3,138,427
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3,138,429
105 : 3,149,902
107 : 3,116,963
3,120,421
3,120,992
3,121,605
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108 : 3,144,294
108 : 3,146,057
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3,154,371
109 : 3,129,999
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3,143,389
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3,148,016
110 : 3,131,020
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112 : 3,160,465
117 : Re.25,692
121 : 3,132,917
137 : 3,137,539
3,160,466
139 : 3,147,063
139 : 3,152,859
3,163,490
140 : 3,116,964
3,125,401
3,128,144
3,136,597
3,140,912
3,146,058
3,149,904
3,150,915
3,163,491
141 : 3,144,296
145 : 3,139,320
3,154,372
3,161,459

Class 352

15 : 3,160,888
47 : 3,155,978
60 : 3,160,889
72 : 3,157,880
84 : 3,152,331
3,161,885
87 : 3,147,481
104 : 3,159,841
119 : 3,155,979
128 : 3,147,482
131 : 3,157,882
139 : 3,157,883
166 : 3,157,881
169 : 3,147,483
172 : 3,150,377
3,152,332
179 : 3,161,884

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CLASSIFICATION OF DESIGNS

Class D1

3 : 199,020
12 : 197,269
197,456
197,590
197,591
198,119
198,154
198,616
198,663
199,047
199,231
199,349
199,725
199,776
199,777
199,778
199,834

Class D2

3 : 197,550
197,592
197,835
198,014
198,071
198,198
198,490
199,114
199,298
199,350
199,483
199,661

Class D3

9 : 197,397
199,484
11 : 198,560
199,891
13 : 198,359
198,776
199,387
199,779
16 : 198,254
198,429
198,664
198,896
17 : 197,398
198,120
198,121
199,299
19 : 198,968
25 : 198,617
199,174
199,514
199,662
26 : 198,015
198,665
199,835
32 : 198,155
198,255

Class D4

2 : 197,691
197,692
197,879
197,944
197,945
197,946
198,016
198,305
198,740
199,048
199,232
3 : 197,502
197,503
197,593
197,636
197,693
197,694
197,695
197,758
197,759
3 : 197,760
197,880
198,017
198,072
198,430
198,666
198,667
198,777
198,831
198,832
199,175
199,233
199,234
199,515
199,516
199,557
199,663
199,664
199,726
199,727
199,728
199,780
199,836
4 : 197,947
197,948
198,256
198,257
198,360
199,517
199,781
199,782
5 : 197,457
197,949
198,018
198,122
198,431
198,491
199,021
199,049
199,235
199,729

Class D5

2 : 197,326
197,950
198,561
199,351
5 : 197,551
198,897
198,898
17 : 198,058

Class D7

5 : 197,505
197,504
197,951
198,123
198,156
198,199
198,306
199,300
199,388
6 : 199,892
7 : 197,552
197,761
198,073
198,157
198,307
198,618
199,427
199,558

Class D8

1 : 198,619
198,741

Class D9

2 : 197,270
197,327
197,328
197,399
197,458
2 : 197,459
197,506
197,594
197,637
197,638
197,696
197,697
197,698
197,699
197,762
197,763
197,836
197,881
197,882
197,952
197,953
198,074
198,124
198,200
198,308
198,361
198,432
198,433
198,434
198,435
198,436
198,437
198,438
198,439
198,440
198,441
198,442
198,443
198,492
198,493
198,521
198,562
198,563
198,564
198,668
198,742
198,833
198,834
198,835
198,899
198,900
199,022
199,023
199,050
199,115
199,116
199,176
199,177
199,178
199,236
199,237
199,238
199,301
199,302
199,352
199,389
199,428
199,518
199,519
199,520
199,521
199,522
199,559
199,560
199,611
199,730
199,783
199,837
199,893

Class D10

6 : 197,639
197,640
197,837
198,075
199,179
199,838

Class D10

6 : 198,901
199,665
7 : 198,362
7 : 199,894
8 : 197,271
197,329
197,400
197,401
197,460
197,553
197,700
197,701
197,764
197,883
197,954
197,955
197,956
197,957
197,958
197,959
197,960
197,961
198,201
198,363
198,494
198,522
198,669
198,778
198,836
199,051
199,117
199,180
199,429
199,430
199,485
199,612
199,613
199,614
199,615
199,666
199,667
199,668
199,731
199,732
199,839
9 : 197,702
198,670
10 : 198,202

Class D11

1 : 198,258

Class D12

2 : 197,595
198,495
198,743
199,669
199,784
199,895

Class D13

1 : 197,272
197,371
197,425
197,461
197,507
197,508
197,554
197,555
197,596
197,641
197,642
197,703
197,704
197,705
197,765
197,766
197,962
197,963
198,019
198,259
198,309
198,310
198,364
198,444
198,445
1 : 198,446
198,496
198,523
198,524
198,525
198,565
198,620
198,671
198,672
198,673
198,674
198,675
198,779
198,837
198,969
199,052
199,239
199,303
199,353
199,390
199,486
199,523
199,524
199,525
199,616
199,617
199,618
199,733
199,785
199,786
199,896
199,897
6 : 198,447
199,354
7 : 198,076
198,260
198,838
199,024
199,391
199,392

Class D14

3 : 197,273
197,330
197,331
197,402
197,509
197,510
197,511
197,556
197,557
197,706
197,707
197,708
197,767
197,838
197,884
197,885
197,886
197,964
197,965
198,077
198,078
198,158
198,159
198,203
198,204
198,205
198,311
198,365
198,366
198,448
198,497
198,526
198,621
198,676
198,677
198,839
198,840
198,841
198,902
198,903
199,053
199,118
199,119
3 : 199,240
199,304
199,355
199,393
199,431
199,432
199,433
199,561
199,619
199,670
199,898
199,899
199,900
6 : 197,462
197,597
197,709
197,887
197,888
198,125
198,126
198,261
198,904
198,970
199,120
199,181
199,305
14 : 197,274
197,710
197,711
197,966
198,206
198,367
198,905
18 : 198,744
199,487
27 : 198,127
198,622
198,780
198,781
199,901
30 : 197,768
197,839
197,840
197,841
198,079
198,207
198,208
198,209
198,262
198,842
199,054
199,055
199,056
199,057
199,241
199,306
199,307
199,394
199,562
199,563
199,620
199,734

Class D15

1 : 197,403
197,512
197,513
197,514
197,515
197,558
197,598
197,599
197,600
197,643
197,644
197,712
197,713
197,967
197,968
197,969
198,210
198,368
198,369
198,370
198,371
1 : 198,372
198,623
198,624
198,745
198,843
198,906
198,907
198,971
199,058
199,059
199,308
199,434
199,621
199,671
199,787
199,788
199,902
3 : 197,601
198,020
198,449
198,782
6 : 197,714
198,312
198,625
8 : 197,275
197,769
197,842
198,211
198,498
198,678
198,679
198,783
198,784
199,672
11 : 197,602
197,645
197,646
197,843
197,844
198,080
198,128
198,212
198,450
198,451
198,452
199,435
199,789

Class D16

1 : 198,160
198,263
198,453
198,499
198,680
2 : 197,404
197,405
197,603
197,770
198,681
198,785
198,786
198,844
199,025
199,121
199,309
199,436
199,488
199,673
199,735
199,790

Class D17

1 : 198,566
198,787
199,526
199,674
199,903
3 : 197,426
199,122
6 : 199,310
199,840
8 : 197,332
197,559
199,182

Class D17—Con.

9 : 197,604
198,682
12 : 197,605
198,264
198,972
199,060
199,841
14 : 198,021

Class D18

2 : 197,372
197,845
197,846
197,970
197,971
197,972
198,129
198,454
198,455
198,500
198,501
198,527
198,626
198,845
198,846
199,183
199,184
199,185
199,186

Class D19

1 : 199,842

Class D20

4 : 197,516
198,161
199,437
199,438

Class D21

1 : 197,771
198,456
198,746
198,747
199,187
6 : 198,528
198,683

Class D22

2 : 198,748
199,311
3 : 197,333
197,373
197,463
197,606
197,647
197,715
198,022
198,023
198,265
198,313
198,908
198,909
198,910
199,242
199,312
199,313
199,527
199,564
199,675
4 : 197,374
198,502
198,911
199,439
5 : 198,266
198,912

Class D24

1 : 197,406
197,889
198,024
198,788
198,789

Class D25

1 : 197,427
197,464
197,890
198,081
198,082
198,267
198,847
199,243
199,440
199,565
1 : 199,566
199,843

Class D26

1 : 197,276
197,277
197,517
197,560
197,772
197,973
198,025
198,130
198,131
198,132
198,162
198,163
198,314
198,529
198,684
198,685
198,749
198,848
198,913
198,914
199,244
199,314
199,395
199,528
4 : 198,063
5 : 197,334
197,428
197,465
197,607
197,608
198,026
198,083
198,084
198,373
198,374
198,375
198,457
198,567
198,686
198,915
199,396
199,529
6 : 197,335
197,518
197,519
198,315
8 : 198,133
198,268
199,123
12 : 197,648
198,530
13 : 197,278
197,429
197,520
197,561
197,562
197,609
197,891
198,027
198,028
198,029
198,030
198,085
198,316
198,376
198,687
198,688
198,790
199,026
199,061
199,062
199,188
199,489
199,844
199,904
14 : 197,279
197,280
197,281
197,336
197,337
197,466
197,467
197,563
197,610
197,611
197,649
197,716
197,717
197,773
197,774
197,892
197,893
197,894
197,974
198,031
198,032
198,086
198,164
198,213
14 : 198,377
198,378
198,379
198,503
198,531
198,689
198,750
198,849
198,850
198,851
198,852
198,916
198,973
198,974
199,063
199,124
199,125
199,189
199,397
199,398
199,441
199,442
199,443
199,444
199,445
199,490
199,491
199,622
199,676
199,677
199,736
15 : 197,650
199,245
199,446
199,567

Class D28

1 : 198,165
198,504

Class D29

1 : 198,214
198,751
2 : 198,975
199,678
11 : 198,033
199,791
19 : 197,718
198,791
199,792
20 : 198,853
199,492
23 : 198,215
198,458
199,190
199,191
199,356
28 : 197,719
199,793

Class D30

1 : 197,895
198,034
198,087
198,166
199,064
199,065
199,192
199,845

Class D31

2 : 198,568
199,066
199,530
3 : 199,067
4 : 197,468
197,469
197,775
198,088
198,089
198,090
198,134
198,216
198,217
198,380
198,381
199,246
199,531
199,568
199,623
199,624
199,737
199,905

Class D33

1 : 197,975
198,317
2 : 199,906
3 : 197,282
3 : 197,470
197,720
198,035
198,318
198,569
198,792
198,917
198,918
199,068
199,569
199,679
199,738
199,794
6 : 198,319
198,320
198,570
198,793
198,794
198,795
198,796
198,854
199,846
7 : 197,612
197,613
197,614
197,721
198,167
198,627
198,797
198,919
8 : 198,321
198,855
199,357
199,532
199,570
9 : 198,798
11 : 197,283
197,284
197,285
197,651
197,652
197,653
198,628
199,027
199,399
12 : 199,533
13 : 198,322
198,323
199,625
14 : 197,286
197,430
197,615
197,722
197,776
197,777
197,778
197,779
197,896
198,168
198,218
198,269
198,324
198,920
199,126
199,315
199,316
199,448
199,571
199,847
19 : 197,287
197,521
197,723
197,976
198,325
198,690
198,799
198,800
199,069
199,317
199,493
199,795

Class D34

2 : 197,780
197,897
198,752
198,856
198,976
198,977
198,978
199,449
199,572
199,739
3 : 198,571
198,691
4 : 198,091
198,135
198,169
198,170
198,572
198,921
199,028
199,447
4 : 199,907
5 : 197,338
197,431
197,471
197,522
197,523
197,524
197,525
197,564
197,565
197,566
197,567
197,568
197,654
197,724
197,725
197,726
197,727
197,781
197,898
197,899
197,977
198,036
198,037
198,092
198,093
198,136
198,137
198,219
198,220
198,382
198,383
198,459
198,460
198,532
198,573
198,574
198,575
198,629
198,630
198,631
198,692
198,693
198,694
198,753
198,754
198,801
198,922
198,923
199,127
199,128
199,247
199,248
199,400
199,401
199,402
199,494
199,534
199,573
199,574
199,575
199,740
199,848
199,849
199,850
199,908
11 : 197,782
197,783
197,784
197,785
197,786
198,755
13 : 197,432
197,900
198,632
199,909
14 : 198,695
15 : 197,288
197,339
197,340
197,341
197,472
197,526
197,569
197,570
197,616
197,655
197,656
197,657
197,658
197,787
197,788
197,847
197,848
197,901
197,978
198,038
198,039
198,171
198,172
198,270
198,326
198,384
198,461
15 : 198,462
198,576
198,633
198,696
198,697
198,756
198,857
198,858
198,924
198,925
199,029
199,030
199,031
199,070
199,129
199,130
199,249
199,250
199,318
199,358
199,403
199,404
199,450
199,451
199,495
199,496
199,535
199,536
199,576
199,626
199,680
199,681
199,682
199,741
199,742
199,743
199,744
199,851
199,852
199,853
199,854

Class D35

1 : 198,463
199,032
199,796
2 : 197,342
197,527
198,138
198,327
198,464
198,533
199,033
199,131
199,359
199,577
199,745
3 : 197,289
197,290
197,291
198,040
198,221
198,534
198,634
198,698
198,802
198,926
199,251
199,405
199,406
199,497
199,627
199,683
199,855

Class D36

8 : 198,173
198,174
198,385
198,927
198,928
199,797

Class D37

1 : 197,343
198,535
198,859
199,132

Class D38

1 : 197,292
6 : 198,757

Class D39

1 : 197,293
197,375
197,902
198,699
198,860
1 : 198,979
199,133

Class D40

1 : 197,659
197,728
197,903
198,041
198,042
198,043
198,094
198,175
198,328
198,329
198,861
198,980
199,034
199,746
199,798

Class D41

1 : 197,344
197,376
197,473
197,789
198,465
198,981
199,910

Class D42

1 : 198,577
198,700
7 : 197,377
197,433
197,474
197,617
197,660
197,661
197,662
197,979
198,044
198,045
198,095
198,176
198,177
198,178
198,179
198,222
198,330
198,331
198,466
198,536
198,635
199,134
199,193
199,252
199,253
199,254
199,255
199,578
199,856
199,857
199,858
199,911
199,912
199,913
199,914

Class D43

1 : 197,378

Class D44

1 : 197,294
197,571
197,663
197,790
198,332
198,333
198,334
198,636
198,803
198,982
199,135
199,136
199,256
199,628
199,747
199,748
199,915
4 : 198,335
198,929
5 : 197,434
197,980
6 : 197,572
9 : 197,407
197,528
197,791
198,139
198,701

9 : 198,930
199,071
199,137
199,319
199,579
199,749
10 : 197,295
197,408
197,573
197,618
197,729
197,981
198,096
198,271
198,386
198,537
198,538
198,804
199,452
199,580
199,629
199,684
199,859
15 : 197,296
197,475
197,476
197,574
197,575
197,849
197,850
197,851
197,904
197,982
198,223
198,272
198,387
198,931
199,072
199,194
199,320
199,685
199,686
199,750
199,751
199,752
199,753
199,754
21 : 197,435
198,702
198,805
198,932
199,035
199,755
22 : 197,345
197,905
199,036
199,138
199,257
24 : 197,436
198,983
199,916
26 : 197,619
198,703
198,806
198,807
198,933
199,407
199,408
199,917
29 : 197,297
197,346
197,409
197,477
197,478
197,620
197,792
197,793
197,794
197,795
197,852
197,853
197,854
197,983
198,046
198,097
198,098
198,224
198,273
198,578
198,579
198,580
198,704
198,808
198,862
198,934
199,037
199,073
199,074
199,258
199,259
199,260
199,261
199,321
199,360
29 : 199,498
199,581
199,630
199,799
199,860
199,861

Class D45

4 : 197,437
197,479
197,529
197,906
198,180
198,388
198,467
198,984
199,262
199,263
199,361
199,362
199,582
9 : 197,907
198,225
10 : 197,576
197,621
197,730
197,796
197,797
197,798
197,799
197,800
197,801
197,802
197,803
197,804
197,805
197,806
197,807
198,809
199,195
199,322
199,323
199,363
199,364
199,365
199,453
199,499
199,500
199,537
17 : 197,410
198,389
199,501
199,538
19 : 199,324

Class D46

1 : 197,411
198,985
199,075
199,139
199,454
199,918
12 : 199,756

Class D47

5 : 198,581
7 : 198,226
198,227
199,140

Class D48

2 : 197,347
197,855
197,984
199,455
199,583
4 : 197,530
199,757
6 : 198,274
14 : 197,856
197,857
197,858
197,859
16 : 197,379
199,456
20 : 197,298
197,577
197,578
197,664
197,808
197,908
197,909
198,228
198,390
198,539
198,540
198,582
198,583
198,637
198,638
20 : 198,810
199,141
199,325
199,326
199,457
199,539
199,631
199,758
199,919
199,920
23 : 197,380
199,687
24 : 197,731
198,181
198,275
198,468
198,811
199,038
199,264
199,540
199,541
199,800
27 : 197,299
197,910
198,182
199,076
199,265
199,921
31 : 197,381
197,438
198,099
198,183
198,639
198,812
198,986
199,077
199,078
199,142
199,143
199,144
199,266
199,267
199,327
199,366
199,367
199,409
199,801
199,802
32 : 197,412
197,985
198,541
198,863
199,803

Class D49

1 : 198,276
198,469
198,705
198,706
199,079
199,145
199,196
199,328
199,632
6 : 198,707
199,146
199,268
199,804

Class D50

3 : 197,986
199,922
199,923
199,924
199,925
199,926
199,927
199,928
4 : 197,732
199,688
5 : 197,531
197,733
6 : 197,911
199,410
199,411
7 : 197,809
199,080
199,542
199,584
199,633
199,634
199,689
8 : 197,300
197,480

Class D51

1 : 197,810
198,813
198,987
199,635

Class D52

1 : 198,470
198,935
199,147
2 : 197,348
197,349
197,413
197,439
197,440
197,481
197,532
197,579
197,622
197,623
197,860
198,047
198,229
198,542
198,758
198,864
198,936
198,988
199,329
199,502
199,690
199,691
199,805
3 : 197,350
197,482
197,624
198,708
198,709
198,759
198,989
199,269
199,270
4 : 198,336
198,584
198,990
199,692
199,806
6 : 197,301
197,302
197,351
197,414
197,415
197,483
197,484
197,625
198,048
198,049
198,140
198,277
198,278
198,391
198,392
198,393
198,585
198,710
199,081
199,368
199,807
199,862
199,929
7 : 197,352
197,416
197,441
197,442
198,100
198,279
198,337
198,711
198,712
199,082
199,083
199,808
10 : 197,533
197,912
198,991
199,693

Class D54

1 : 197,417
198,280
198,394
198,395
198,471
198,586
198,865
199,148
199,197
199,330
199,585
199,586
199,587
199,636
2 : 197,485
197,665
198,184
198,505
198,640
198,641
2 : 199,369
199,759
3 : 198,760
4 : 198,396
199,084
6 : 197,353
197,913
8 : 198,101
9 : 198,102
198,397
198,713
199,085
199,637
199,930
10 : 198,398
11 : 197,382
198,281
199,086
199,087
199,198
12 : 197,486
197,580
197,666
197,914
198,506
198,543
198,587
198,642
199,331
199,332
199,638
199,809
199,863
13 : 197,303
197,534
197,811
197,915
198,282
198,338
198,399
198,472
198,992
198,993
198,994
199,039
199,088
199,089
199,333
199,458
199,459
199,694
199,695
14 : 197,667
197,987
198,230
198,588
198,866
16 : 199,091
199,092
199,149

Class D55

1 : 197,354
197,626
197,734
197,861
197,916
197,917
198,473
198,814
198,867
198,995
199,093
199,094
199,095
199,199
199,370
199,412
199,760
199,864
199,865

Class D56

1 : 197,627
197,735
198,400
198,714
199,761
199,810
4 : 197,628
197,668
197,669
197,670
198,050
198,051
198,103
198,185
198,231
198,283
198,401
198,589
198,715
4 : 198,937
199,639
199,696
199,811
9 : 199,588
199,866

Class D57

1 : 197,304
197,305
197,306
197,418
197,736
198,052
198,104
198,141
198,142
198,232
198,284
198,285
198,286
198,402
198,403
198,474
198,590
198,643
198,644
198,716
198,717
198,718
198,719
198,815
198,938
198,939
198,996
199,150
199,334
199,371
199,503
199,504
199,543
199,640
199,697
199,762
199,931
199,932
199,933
199,934
7 : 197,419
199,589

Class D58

2 : 197,629
197,671
197,737
197,862
197,863
198,339
198,507
199,200
199,544
199,935
3 : 198,143
198,340
199,271
4 : 197,672
199,096
5 : 197,307
197,383
197,581
197,738
197,739
197,812
197,918
198,053
198,287
198,341
198,404
198,405
198,406
198,407
198,408
198,591
198,592
198,645
198,868
198,869
198,940
198,941
199,040
199,041
199,201
199,272
199,590
199,591
199,592
199,641
199,642
199,812
199,813
199,814
199,867
6 : 197,384
197,385
197,582
197,583
197,630
197,673
198,105
198,288
198,289
198,475
198,508
198,646
198,647
198,648
198,816
198,817
198,997
199,202
199,273
199,274
199,275
199,276
199,372
199,460
199,545
199,644
199,645
199,698
199,763
199,815
199,868
199,936
7 : 199,203
8 : 197,308
197,386
197,487
197,864
197,919
197,920
197,921
198,054
198,055
198,186
198,233
198,234
198,342
198,509
198,510
198,511
198,593
198,761
198,762
198,763
198,870
198,871
198,942
198,943
199,151
199,152
199,153
199,204
199,277
199,278
199,279
199,413
199,461
199,643
199,699
199,700
199,764
199,817
199,818
199,869
9 : 197,309
197,387
198,944
198,945
199,042
199,414
199,546
10 : 197,922
198,872
11 : 197,310
197,813
197,923
198,409
198,512
199,205
199,280
199,415
199,646
12 : 198,187
198,343
198,410
198,544
198,873
198,946
198,947
198,948
199,206
199,647
199,648
199,819

Class D58—Con.

12.6 : 197,311
.6 : 197,388
.6 : 197,584
.6 : 197,924
.6 : 197,988
.6 : 197,989
.6 : 198,290
.6 : 198,411
.6 : 198,476
.6 : 198,594
.6 : 198,764
.6 : 199,281
.6 : 199,335
.6 : 199,593
.6 : 199,701
.7 : 197,740
.7 : 198,595
.7 : 199,820
13 : 197,420
197,443
197,535
197,631
197,632
197,633
197,674
197,675
197,990
197,991
197,992
198,056
198,106
198,144
198,145
198,146
198,513
198,545
198,546
198,998
199,462
199,463
199,765
17 : 197,312
197,313
197,314
197,488
197,536
197,537
197,814
197,925
197,993
197,994
198,057
198,291
198,477
198,596
198,597
198,720
198,721
198,722
198,765
198,949
198,950
198,951
198,999
199,000
199,154
199,207
199,282
199,336
199,373
199,374
199,505
199,506
199,594
25 : 197,355
197,389
197,538
199,090
199,416
199,417
199,418
199,507
199,766
26 : 197,315
197,356
197,357
197,358
197,390
197,444
197,489
197,741
197,865
197,926
197,927
197,928
197,995
198,059
198,107
198,108
198,109
198,110
198,111
26 : 198,112
198,188
198,235
198,236
198,237
198,238
198,239
198,344
198,478
198,479
198,480
198,481
198,482
198,547
198,548
198,598
198,599
198,649
198,723
198,724
198,818
198,819
198,874
198,875
198,952
198,953
199,001
199,155
199,208
199,209
199,210
199,284
199,419
199,547
199,548
199,595
199,596
199,597
199,702
199,703
199,821
199,822
199,870

Class D59

2 : 197,359
198,483
199,156
199,464
6 : 197,421
198,725
26 : 199,283

Class D60

1 : 197,360

Class D61

1 : 197,422
197,423
197,445
197,490
197,539
197,540
197,676
197,742
197,743
197,744
197,745
197,815
197,816
197,866
197,929
197,996
198,060
198,061
198,189
198,190
198,240
198,241
198,292
198,412
198,514
198,549
198,550
198,600
198,601
198,602
198,650
198,726
198,727
198,728
198,729
198,730
198,766
198,876
198,877
198,878
199,097
199,157
199,158
199,211
1 : 199,212
199,213
199,285
199,337
199,338
199,339
199,375
199,420
199,465
199,466
199,467
199,508
199,598
199,599
199,649
199,650
199,704
199,823
199,871
199,872

Class D62

1 : 199,002
2 : 197,316
197,491
199,098
199,376
199,651
199,937
4 : 197,317
197,492
198,062
198,064
198,065
198,147
198,242
198,413
198,820
198,821
199,099
199,100
199,159
199,873

Class D64

10 : 197,677
197,817
11 : 197,678
197,746
197,818
197,997
197,998
198,243
198,603
198,651
198,879
199,286
199,705
199,706
199,824
199,825
12 : 197,493
197,747
198,191
198,414
198,604
198,605
198,606
198,607
16 : 197,361

Class D65

1 : 197,494
197,819
197,999
198,066
198,608
198,954
199,003
199,101
199,874

Class D66

1 : 197,391
197,930
198,551
199,421
199,468

Class D67

2 : 198,244
199,102
3 : 197,679
198,000
198,148
198,245
198,880
199,103
199,422
3 : 199,652
199,826
199,938
4 : 197,867
197,931
198,652

Class D68

1 : 199,939

Class D69

1 : 198,345

Class D70

1 : 197,585
199,469
199,767
2 : 197,362
199,214
199,600

Class D71

1 : 197,318
197,363
197,446
197,447
197,495
197,680
197,748
197,820
197,821
197,822
197,823
197,868
197,869
197,932
197,933
198,001
198,002
198,003
198,004
198,067
198,246
198,247
198,248
198,249
198,293
198,346
198,415
198,552
198,553
198,554
198,609
198,610
198,731
198,881
198,882
199,004
199,104
199,105
199,106
199,160
199,161
199,215
199,287
199,288
199,289
199,340
199,341
199,377
199,470
199,509
199,510
199,549
199,550
199,601
199,602
199,707
199,708
199,768
199,769
199,770
199,827
199,940

Class D72

1 : 197,681
197,824
198,005
198,149
198,883
198,884
198,955
198,956
199,471
199,472
199,603
199,875
199,876
1 : 199,877
199,878
199,941

Class D74

1 : 197,496
197,541
197,586
197,749
197,870
197,934
197,935
198,006
198,347
198,416
198,957
198,958
199,216
199,828
2 : 198,417
9 : 197,682
197,683
198,007
199,043
199,044
199,107
199,217
199,290
17 : 198,348
198,418
198,419
199,005
199,653
21 : 197,319
199,473
199,654
24 : 198,959

Class D77

1 : 198,515
199,879

Class D78

1 : 198,008
198,294
198,885
198,886

Class D79

2 : 199,378

Class D80

1 : 197,684
2 : 197,497
5 : 198,420
8 : 197,392
197,448
197,542
197,587
198,192
198,484
198,516
198,653
198,960
199,006
199,007
199,108
199,604
9 : 197,364
197,449
198,009
198,150
198,295
198,421
198,485
198,611
198,732
198,887
198,888
198,889
199,162
199,291
199,342
199,423
199,655
199,880
199,942
10 : 197,393
197,825
197,871
198,349
198,350
198,654
198,890
198,961
199,292
199,943
11 : 197,320
197,321
11 : 197,365
197,498
197,499
197,543
198,351
198,352
198,422
198,655
198,891
199,218
199,293
199,605
199,709
199,944

Class D81

1 : 199,710
2 : 198,353
199,881
4 : 197,685
198,656
199,711
7 : 198,193
198,194
198,195
10 : 199,219
197,322
197,366
197,394
197,395
197,826
198,010
198,011
198,113
198,354
198,486
198,555
198,612
198,733
198,822
198,962
199,008
199,045
199,163
199,164
199,712
19 : 197,686
198,068
198,355
198,657
199,343
199,656
20 : 198,892
21 : 198,556
198,557

Class D82

24 : 198,823
25 : 197,872
198,114
199,009
199,713
2 : 198,767
198,768
198,769
198,770
198,771
198,772
198,773
198,774

Class D83

1 : 197,396
197,450
197,451
197,687
197,688
197,750
197,827
197,873
197,936
197,937
198,069
198,151
198,296
198,487
198,558
198,734
198,735
198,736
199,109
199,165
199,166
199,220
199,294
199,344
199,379
199,380
199,381
199,474
1 : 199,551
199,714
199,715
199,771
199,772
199,829
199,830
199,882
199,883
199,945
5 : 197,452
8 : 197,828
197,829
197,874
198,488
199,773
12 : 197,751
198,115
198,423
198,658
198,659
198,963
198,964
199,010
199,110
199,167
199,511
199,606
199,831
199,946
199,947

Class D85

2 : 198,297
198,298
198,613
198,614
198,775
198,824
199,011
199,012
199,013
199,014
199,015
199,221
199,345
199,382
199,716
199,884
199,885
8 : 197,689
199,552
199,607
199,717

Class D86

8 : 197,367
197,544
197,588
197,830
199,657
199,718
199,948
10 : 197,368
197,589
197,634
197,938
198,299
198,660
198,965
199,046
199,111
199,168
199,295
199,346
199,347
199,348
199,383
199,424
199,475
199,476
199,477
199,478
199,553
199,608
199,719
199,832
199,949

Class D87

2 : 197,831
197,875
197,876
198,012
198,196
198,250
199,016
199,169
199,170
199,512
3 : 197,323

3 : 197,453
197,690
197,832
197,877
198,013
198,251
198,300
198,301
198,825
5 : 197,545
197,546
197,752
197,753
197,939
198,116
198,302
198,424
198,425
198,426
198,489
198,517
198,661

5 : 198,662
199,296
199,833
199,886
199,950

Class D88

3 : 198,518
199,720
199,887

Class D89

1 : 197,635
198,070
198,303
198,826
199,721
199,888

Class D90

3 : 199,479
199,774
199,775
8 : 198,827
199,384
199,480
199,609
11 : 198,197
199,171
14 : 197,324
197,754
199,951
20 : 197,369
197,370
197,547
197,548
197,878
198,519
198,737
198,738

20 : 198,739
199,017
199,425
199,554
199,658
199,722
199,723
199,889

Class D91

1 : 199,226
197,454
197,833
197,834
197,940
197,941
197,942
198,117
198,152
198,153

1 : 198,356
198,357
198,358
198,828
199,018
199,222
199,223
199,224
199,225
199,227
199,228
199,229
199,230
199,385
199,952
2 : 199,386
3 : 197,455
197,755
3 : 197,756
197,943
198,252

3 : 198,304
198,427
198,428
198,520
198,615
198,829
198,830
198,966
198,967
199,112
199,113
199,172
199,297
199,426
199,481
199,482
199,513
199,555
199,610
199,659
199,724
4 : 199,556

Class D92

1 : 198,559
198,893
199,173
2 : 197,325
199,953
199,954
4 : 198,253
21 : 198,118
26 : 199,660

Class D93

3 : 197,500
197,549
198,894
198,895
199,890
4 : 197,501
197,757
199,019

1964

CLASSIFICATION OF PLANTS

P.– 1: 2,463
2: 2,448
3: 2,409
5: 2,386
6: 2,384
8: 2,366
2,450
11: 2,359
2,378
2,381
2,421
2,430
2,444
2,449
2,455
14: 2,441
15: 2,383
16: 2,442
17: 2,371

P.– 17: 2,402
18: 2,342
2,349
2,369
2,401
2,456
20: 2,358
2,370
2,400
2,443
2,462
21: 2,348
22: 2,387
23: 2,376
2,447
24: 2,382
26: 2,411
2,446
28: 2,385

P.– 28: 2,424
2,445
29: 2,436
30: 2,350
2,367
2,379
2,380
2,426
31: 2,392
33: 2,391
34: 2,460
2,464
35: 2,433
2,440
38: 2,406
2,410
2,415
2,420

P.– 41: 2,419
43: 2,343
2,360
2,365
2,399
2,418
2,425
2,439
2,458
2,459
44: 2,403
47: 2,340
2,344
2,345
2,397
2,405
2,408
49: 2,407

P.– 49: 2,429
50: 2,368
51: 2,337
2,338
2,339
2,377
2,412
2,413
2,427
2,431
2,454
54: 2,423
2,457
56: 2,432
58: 2,341
64: 2,422
65: 2,434
2,435

P.– 68: 2,414
2,451
2,453
76: 2,372
77: 2,389
78: 2,347
2,352
2,437
2,438
79: 2,346
2,390
81: 2,388
82: 2,396
2,428
85: 2,351
2,353
2,354
2,355

P.– 85: 2,356
2,357
2,361
2,362
2,363
2,373
2,374
2,375
2,393
2,394
2,395
2,416
2,417
2,452
86: 2,398
87: 2,404
88: 2,364
89: 2,461

CLASS TITLES ARRANGED IN CLASS NUMBER ORDER

Class	Title
	Plants
1	Nailing, Stapling and Clip Clenching
2	Apparel
3	Artificial Body Members
4	Baths, Closets, Sinks and Spittoons
5	Beds
6	Bee Culture
7	Compound Tools
8	Bleaching and Dyeing; Fluid Treatment and Chemical Modification of Textiles and Fibers
9	Boats, Buoys and Aquatic Devices
10	Bolt, Nail, Nut, Rivet and Screw Making
11	Books, Making
12	Boot and Shoe Making
13	Electric Furnaces
14	Bridges
15	Brushing, Scrubbing and General Cleaning
16	Miscellaneous Hardware
17	Butchering
18	Plastics
19	Textiles, Fiber Preparation
20	Wooden Buildings
21	Preserving, Disinfecting and Sterilizing
22	Metal Founding
23	Chemistry
24	Buckles, Buttons, Clasps, Etc.
25	Plastic Block and Earthenware Apparatus
26	Textiles, Cloth Finishing
27	Undertaking
28	Textiles, Manufacturing
29	Metal Working
30	Cutlery
31	Dairy
32	Dentistry
33	Geometrical Instruments
34	Drying and Gas or Vapor Contact With Solids
35	Education
36	Boots, Shoes and Leggings
37	Excavating
38	Textiles, Ironing or Smoothing
39	Gates
40	Card, Picture and Sign Exhibiting
41	No Class
42	Firearms
43	Fishing, Trapping and Vermin Destroying
44	Fuel and Igniting Devices
45	Furniture*
46	Amusement Devices, Toys
47	Plant Husbandry
48	Gas, Heating and Illuminating
49	No Class
50	Building Structures
51	Abrading
52	No Class
53	Package Making
54	Harness
55	Gas Separation
56	Harvesters
57	Textiles, Spinning, Twisting and Twining
58	Horology
59	Chain, Staple and Horseshoe Making
60	Power Plants
61	Hydraulic and Earth Engineering
62	Refrigeration
63	Jewelry
64	Machine Elements, Shafting and Flexible Shaft Couplings
65	Glass Manufacturing
66	Textiles, Knitting
67	Illuminating Burners
68	Textiles, Fluid Treating Apparatus
69	Leather Manufactures
70	Locks
71	Chemistry, Fertilizers
72	No Class
73	Measuring and Testing
74	Machine Elements and Mechanisms
75	Metallurgy
76	Metal Tools and Implements, Making
77	Boring and Drilling
78	Metal Forging and Welding
79	Button Making
80	Metal Rolling
81	Tools
82	Turning
83	Cutting
84	Music
85	Driven, Headed and Screw-Threaded Fastenings
86	Ammunition and Explosive-Charge Making
87	Textiles, Braiding, Netting and Lace Making
88	Optics
89	Ordnance
90	Gear Cutting, Milling and Planing
91	Motors, Expansible Chamber Type
92	Expansible Chamber Devices
93	Paper Manufactures
94	Roads and Pavements
95	Photography
96	Photographic Chemistry, Processes and Materials
97	No Class
98	Ventilation
99	Foods and Beverages
100	Presses
101	Printing
102	Ammunition and Explosive Devices
103	Pumps
104	Railways
105	Railway Rolling Stock

*Class abolished July 31, 1964

Class	Title
106	Compositions, Coating or Plastic
107	Bread, Pastry and Confection Making
108	Horizontally Supported Planar Surfaces
109	Safes, Bank Protection and Related Devices
110	Furnaces
111	Planting
112	Sewing
113	Sheet-Metal Ware, Making
114	Ships
115	Marine Propulsion
116	Signals and Indicators
117	Coating: Processes and Miscellaneous Products
118	Coating Apparatus
119	Animal Husbandry
120	Stationery
121	No Class
122	Liquid Heaters and Vaporizers
123	Internal-Combustion Engines
124	Mechanical Guns and Projectors
125	Stone Working
126	Stoves and Furnaces
127	Sugar, Starch and Carbohydrates
128	Surgery
129	Paper Files and Binders
130	Threshing
131	Tobacco
132	Toilet
133	Coin Handling
134	Cleaning and Liquid Contact With Solids
135	Tents, Canopies, Umbrellas and Canes
136	Batteries
137	Fluid Handling
138	Pipes and Tubular Conduits
139	Textiles, Weaving
140	Wireworking
141	Fluent Material Handling, With Receiver or Receiver Coacting Means
142	Wood Turning
143	Wood Sawing
144	Woodworking
145	Woodworking Tools
146	Vegetable and Meat Cutters and Comminutors
147	Coopering
148	Metal Treatment
149	Explosive and Thermic Compositions or Charges
150	Cloth, Leather and Rubber Receptacles
151	Nut and Bolt Locks
152	Resilient Tires and Wheels
153	Metal Bending
154	No Class
155	No Class
156	Adhesive Bonding and Miscellaneous Chemical Manufacture
157	Wheelwright Machines
158	Liquid and Gaseous Fuel Burners
159	Concentrating Evaporators
160	Closures, Partitions and Panels, Flexible and Portable
161	Stock Material and Miscellaneous Articles
162	Paper Making and Fiber Liberation
163	Needle and Pin Making
164	No Class
165	Heat Exchange
166	Wells
167	Medicines, Poisons and Cosmetics
168	Farriery
169	Fire-Extinguishers
170	Motors, Fluid Current
171	Unearthing Plants or Buried Objects
172	Earth Working
173	Tool Driving or Impacting
174	Electricity, Conductors and Insulators
175	Boring or Penetrating the Earth
176	Nuclear Reactions and Systems
177	Weighing Scales
178	Telegraphy
179	Telephony
180	Motor Vehicles
181	Acoustics
182	Fire Escapes, Ladders, Scaffolds
183	No Class
184	Lubrication
185	Motors, Spring, Weight and Animal Powered
186	Store Service
187	Elevators
188	Brakes
189	Metallic Building Structures
190	Baggage
191	Electricity, Transmission to Vehicles
192	Clutches and Power-Stop Control
193	Conveyers, Chutes, Skids, Guides and Ways
194	Check-Controlled Apparatus
195	Chemistry, Fermentation
196	Mineral Oils: Apparatus
197	Typewriting Machines
198	Conveyers, Power-Driven
199	Type Casting
200	Electricity, Circuit Makers and Breakers
201	No Class
202	Distillation
203	No Class
204	Chemistry, Electrical and Wave Energy
205	Metal Drawing
206	Special Receptacles and Packages
207	Plastic Metal Working
208	Mineral Oils: Processes and Products
209	Classifying, Separating and Assorting Solids
210	Liquid Purification or Separation
211	Supports, Racks
212	Traversing Hoists
213	Railway Draft Appliances
214	Material or Article Handling
215	Bottles and Jars
216	No Class
217	Wooden Receptacles
218	Button, Eyelet and Rivet Setting
219	Electric Heating
220	Metallic Receptacles

Class	Title
221	Article Dispensing
222	Dispensing
223	Apparel Apparatus
224	Package and Article Carriers
225	Severing by Tearing or Breaking
226	Advancing Material of Indeterminate-Length
227	No Class
228	No Class
229	Paper Receptacles
230	Gas Pumps and Fans
231	Whips and Whip Apparatus
232	Deposit and Collection Receptacles
233	Centrifugal-Bowl Separators
234	Selective Cutting (e.g., Punching)
235	Registers
236	Automatic Temperature and Humidity Regulation
237	Heating Systems
238	Railways, Surface Track
239	Fluid Sprinkling, Spraying and Diffusing
240	Illumination
241	Solid Material Comminution or Disintegration
242	Winding and Reeling
243	Pneumatic Dispatch
244	Aeronautics
245	Wire Fabrics and Structure
246	Railway Switches and Signals
247	No Class
248	Supports
249	No Class
250	Radiant Energy
251	Valves and Valve Actuation
252	Compositions
253	Motors, Fluid
254	Pushing and Pulling Implements
255	No Class
256	Fences
257	No Class
258	Railway Mail Delivery
259	Agitating
260	Chemistry, Carbon Compounds
261	Gas and Liquid Contact Apparatus
262	Mining, Quarrying and Ice Harvesting*
263	Heating
264	Plastic and Non-Metallic Article Shaping or Treating: Processes
265	No Class
266	Metallurgical Apparatus
267	Spring Devices
268	Closure-Operators
269	Work Holders
270	Sheet-Material Associating or Folding
271	Sheet Feeding or Delivering
272	Amusement and Exercising Devices
273	Amusement Devices, Games
274	Sound Recording and Reproducing
275	Scattering-Unloaders
276	Type Setting
277	Joint Packing
278	Land Vehicles, Animal Draft Appliances
279	Chucks or Sockets
280	Land Vehicles
281	Books, Strips and Leaves
282	Manifolding
283	Printed Matter
284	No Class
285	Pipe Joints or Couplings
286	No Class
287	Rod Joints or Couplings
288	No Class
289	Knots and Knot Tying
290	Prime-Mover Dynamo Plants
291	Track Sanders
292	Closure Fasteners
293	Vehicle Fenders
294	Handling, Hand and Hoist-Line Implements
295	Railway Wheels and Axles
296	Land Vehicles, Bodies and Tops
297	Chairs and Seats
298	Land Vehicles, Dumping
299	Mining or In Situ Disintegration of Hard Materials**
300	Brush, Broom and Mop Making
301	Land Vehicles, Wheels and Axles
302	Conveyers, Fluid Current
303	Fluid-Pressure Brake and Analogous Systems
304	No Class
305	Wheel Substitutes for Land Vehicles
306	Tool-Handle Fastenings
307	Electrical Transmission or Interconnection Systems
308	Machine Elements, Bearings and Guides
309	No Class
310	Electrical Generator or Motor Structure
311	No Class
312	Supports, Cabinet Structures
313	Electric Lamp and Discharge Devices
314	Electric Lamp and Discharge Devices, Consumable Electrodes
315	Electric Lamp and Discharge Devices, Systems
316	Electric Lamp and Discharge Devices, Manufacture and Repair
317	Electricity
318	Electricity, Motive Power Systems
319	No Class
320	Electricity, Battery and Condenser Charging and Discharging
321	Electricity, Conversion Systems
322	Electricity, Single Generator Systems
323	Electricity, Voltage Magnitude and Phase Control Systems
324	Electricity, Measuring and Testing
325	Modulated Carrier Wave Communication Systems
326	No Class
327	No Class
328	Miscellaneous Electron Space Discharge Device Systems
329	Demodulators and Detectors
330	Amplifiers
331	Oscillators

*Class abolished June 29, 1964
**Class established June 29, 1964

Class	Title
332	Modulators
333	Wave Transmission Lines and Networks
334	Tuners
335	No Class
336	Inductor Devices
337	No Class
338	Electrical Resistors
339	Electrical Connectors
340	Communications, Electrical
341	No Class
342	No Class
343	Communications, Radio Wave
344	No Class
345	No Class
346	Recorders
	Designs
	Industrial Arts
	Household, Personal and Fine Arts
351	Optics, Eye Examining, Vision Testing and Correcting*
352	Optics, Motion Pictures**

CLASS TITLES ARRANGED IN ALPHABETICAL ORDER

Class	Title
51	Abrading
181	Acoustics
156	Adhesive Bonding and Miscellaneous Chemical Manufacture
226	Advancing Material of Indeterminate-Length
244	Aeronautics
259	Agitating
86	Ammunition and Explosive-Charge Making
102	Ammunition and Explosive Devices
330	Amplifiers
272	Amusement and Exercising Devices
273	Amusement Devices, Games
46	Amusement Devices, Toys
119	Animal Husbandry
2	Apparel
223	Apparel Apparatus
221	Article Dispensing
3	Artificial Body Members
236	Automatic Temperature and Humidity Regulation
190	Baggage
4	Baths, Closets, Sinks and Spittoons
136	Batteries
5	Beds
6	Bee Culture
8	Bleaching and Dyeing; Fluid Treatment and Chemical Modification of Textiles and Fibers
9	Boats, Buoys and Aquatic Devices
10	Bolt, Nail, Nut, Rivet and Screw Making
11	Books, Making
281	Books, Strips and Leaves
12	Boot and Shoe Making
36	Boots, Shoes and Leggings
77	Boring and Drilling
175	Boring or Penetrating the Earth
215	Bottles and Jars
188	Brakes
107	Bread, Pastry and Confection Making
14	Bridges
300	Brush, Broom and Mop Making
15	Brushing, Scrubbing and General Cleaning
24	Buckles, Buttons, Clasps, Etc.
50	Building Structures
17	Butchering
218	Button, Eyelet and Rivet Setting
79	Button Making
40	Card, Picture and Sign Exhibiting
233	Centrifugal-Bowl Separators
59	Chain, Staple and Horseshoe Making
297	Chairs and Seats
194	Check-Controlled Apparatus
23	Chemistry
260	Chemistry, Carbon Compounds
204	Chemistry, Electrical and Wave Energy
195	Chemistry, Fermentation
71	Chemistry, Fertilizers
279	Chucks or Sockets
209	Classifying, Separating and Assorting Solids
134	Cleaning and Liquid Contact With Solids
292	Closure Fasteners
268	Closure-Operators
160	Closures, Partitions and Panels, Flexible and Portable
150	Cloth, Leather and Rubber Receptacles
192	Clutches and Power-Stop Control
118	Coating Apparatus
117	Coating: Processes and Miscellaneous Products
133	Coin Handling
340	Communications, Electrical
343	Communications, Radio Wave
252	Compositions
106	Compositions, Coating or Plastic
7	Compound Tools
159	Concentrating Evaporators
193	Conveyers, Chutes, Skids, Guides and Ways
302	Conveyers, Fluid Current
198	Conveyers, Power-Driven
147	Coopering
30	Cutlery
83	Cutting
31	Dairy
329	Demodulators and Detectors
32	Dentistry
232	Deposit and Collection Receptacles
222	Dispensing
202	Distillation
85	Driven, Headed and Screw-Threaded Fastenings

*Class established Nov. 25, 1964
**Class established Aug. 28, 1964

Class	Title
34	Drying and Gas or Vapor Contact With Solids
172	Earth Working
35	Education
13	Electric Furnaces
219	Electric Heating
313	Electric Lamp and Discharge Devices
314	Electric Lamp and Discharge Devices, Consumable Electrodes
316	Electric Lamp and Discharge Devices, Manufacture and Repair
315	Electric Lamp and Discharge Devices, Systems
339	Electrical Connectors
310	Electrical Generator or Motor Structure
338	Electrical Resistors
307	Electrical Transmission or Interconnection Systems
317	Electricity
320	Electricity, Battery and Condenser Charging and Discharging
200	Electricity, Circuit Makers and Breakers
174	Electricity, Conductors and Insulators
321	Electricity, Conversion Systems
324	Electricity, Measuring and Testing
318	Electricity, Motive Power Systems
322	Electricity, Single Generator Systems
191	Electricity, Transmission to Vehicles
323	Electricity, Voltage Magnitude and Phase Control Systems
187	Elevators
37	Excavating
92	Expansible Chamber Devices
149	Explosive and Thermic Compositions or Charges
168	Farriery
256	Fences
182	Fire Escapes, Ladders, Scaffolds
169	Fire-Extinguishers
42	Firearms
43	Fishing, Trapping and Vermin Destroying
141	Fluent Material Handling, With Receiver or Receiver Coacting Means
137	Fluid Handling
303	Fluid-Pressure Brake and Analogous Systems
239	Fluid Sprinkling, Spraying and Diffusing
99	Foods and Beverages
44	Fuel and Igniting Devices
110	Furnaces
45	Furniture*
261	Gas and Liquid Contact Apparatus
48	Gas, Heating and Illuminating
230	Gas Pumps and Fans
55	Gas Separation
39	Gates
90	Gear Cutting, Milling and Planing
33	Geometrical Instruments
65	Glass Manufacturing
294	Handling, Hand and Hoist-Line Implements
54	Harness
56	Harvesters
165	Heat Exchange
263	Heating
237	Heating Systems
108	Horizontally Supported Planar Surfaces
58	Horology
61	Hydraulic and Earth Engineering
67	Illuminating Burners
240	Illumination
336	Inductor Devices
123	Internal-Combustion Engines
63	Jewelry
277	Joint Packing
289	Knots and Knot Tying
280	Land Vehicles
278	Land Vehicles, Animal Draft Appliances
296	Land Vehicles, Bodies and Tops
298	Land Vehicles, Dumping
301	Land Vehicles, Wheels and Axles
69	Leather Manufactures
158	Liquid and Gaseous Fuel Burners
122	Liquid Heaters and Vaporizers
210	Liquid Purification or Separation
70	Locks
184	Lubrication
74	Machine Elements and Mechanisms
308	Machine Elements, Bearings and Guides
64	Machine Elements, Shafting and Flexible Shaft Couplings
282	Manifolding
115	Marine Propulsion
214	Material or Article Handling
73	Measuring and Testing
124	Mechanical Guns and Projectors
167	Medicines, Poisons and Cosmetics
153	Metal Bending
205	Metal Drawing
78	Metal Forging and Welding
22	Metal Founding
80	Metal Rolling
76	Metal Tools and Implements, Making
148	Metal Treatment
29	Metal Working
189	Metallic Building Structures
220	Metallic Receptacles
266	Metallurgical Apparatus
75	Metallurgy
196	Mineral Oils: Apparatus
208	Mineral Oils: Processes and Products
262	Mining, Quarrying and Ice Harvesting*
299	Mining or In Situ Disintegration of Hard Materials**
328	Miscellaneous Electron Space Discharge Device Systems
16	Miscellaneous Hardware
325	Modulated Carrier Wave Communication Systems
332	Modulators
180	Motor Vehicles
91	Motors, Expansible Chamber Type
253	Motors, Fluid
170	Motors, Fluid Current
185	Motors, Spring, Weight and Animal Powered
84	Music
1	Nailing, Stapling and Clip Clenching

*Class abolished during 1964
**Class established during 1964

Class	Title
163	Needle and Pin Making
176	Nuclear Reactions and Systems
151	Nut and Bolt Locks
88	Optics
351	Optics, Eye Examining, Vision Testing and Correcting**
352	Optics, Motion Pictures**
89	Ordnance
331	Oscillators
224	Package and Article Carriers
53	Package Making
129	Paper Files and Binders
162	Paper Making and Fiber Liberation
93	Paper Manufactures
229	Paper Receptacles
96	Photographic Chemistry, Processes and Materials
95	Photography
285	Pipe Joints or Couplings
138	Pipes and Tubular Conduits
47	Plant Husbandry
111	Planting
	Plants
25	Plastic Block and Earthenware Apparatus
264	Plastic and Non-Metallic Article Shaping or Treating: Processes
207	Plastic Metal Working
18	Plastics
243	Pneumatic Dispatch
60	Power Plants
21	Preserving, Disinfecting and Sterilizing
100	Presses
290	Prime-Mover Dynamo Plants
283	Printed Matter
101	Printing
103	Pumps
254	Pushing and Pulling Implements
250	Radiant Energy
213	Railway Draft Appliances
258	Railway Mail Delivery
105	Railway Rolling Stock
246	Railway Switches and Signals
295	Railway Wheels and Axles
104	Railways
238	Railways, Surface Track
346	Recorders
62	Refrigeration
235	Registers
152	Resilient Tires and Wheels
94	Roads and Pavements
287	Rod Joints or Couplings
109	Safes, Bank Protection and Related Devices
275	Scattering-Unloaders
234	Selective Cutting (e.g., Punching)
225	Severing by Tearing or Breaking
112	Sewing
271	Sheet Feeding or Delivering
270	Sheet-Material Associating or Folding
113	Sheet-Metal Ware, Making
114	Ships
116	Signals and Indicators
241	Solid Material Comminution or Disintegration
274	Sound Recording and Reproducing
206	Special Receptacles and Packages
267	Spring Devices
120	Stationery
161	Stock Material and Miscellaneous Articles
125	Stone Working
186	Store Service
126	Stoves and Furnaces
127	Sugar, Starch and Carbohydrates
248	Supports
312	Supports, Cabinet Structures
211	Supports, Racks
128	Surgery
178	Telegraphy
179	Telephony
135	Tents, Canopies, Umbrellas and Canes
87	Textiles, Braiding, Netting and Lace Making
26	Textiles, Cloth Finishing
19	Textiles, Fiber Preparation
68	Textiles, Fluid Treating Apparatus
38	Textiles, Ironing or Smoothing
66	Textiles, Knitting
28	Textiles, Manufacturing
57	Textiles, Spinning, Twisting and Twining
139	Textiles, Weaving
130	Threshing
131	Tobacco
132	Toilet
173	Tool Driving or Impacting
306	Tool-Handle Fastenings
81	Tools
291	Track Sanders
212	Traversing Hoists
334	Tuners
82	Turning
199	Type Casting
276	Type Setting
197	Typewriting Machines
27	Undertaking
171	Unearthing Plants or Buried Objects
251	Valves and Valve Actuation
146	Vegetable and Meat Cutters and Comminutors
293	Vehicle Fenders
98	Ventilation
333	Wave Transmission Lines and Networks
177	Weighing Scales
166	Wells
305	Wheel Substitutes for Land Vehicles
157	Wheelwright Machines
231	Whips and Whip Apparatus
242	Winding and Reeling
245	Wire Fabrics and Structure
140	Wireworking
143	Wood Sawing
142	Wood Turning
20	Wooden Buildings
217	Wooden Receptacles
144	Woodworking

**Class established during 1964

Class	Title
145	Woodworking Tools
269	Work Holders

Classes Abolished During 1964

Class	Title
45	Furniture
262	Mining, Quarrying and Ice Harvesting

Class	Title

Classes Established During 1964

Class	Title
299	Mining or In Situ Disintegration of Hard Materials
351	Optics, Eye Examining, Vision Testing and Correcting
352	Optics, Motion Pictures

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Bayonne, Free Public Library
Camden, Free Public Library
Elizabeth, Public Library
Glassboro, Savitz Library, Glassboro State College
Jersey City, Free Public Library
Newark, Public Library
New Brunswick, Rutgers University
Passaic, Public Library
Princeton, Princeton University
South Orange, Seton Hall University
Trenton, Free Public Library

NEW MEXICO

Albuquerque, U. of New Mexico
Santa Fe, New Mexico State Library
Santa Fe, Supreme Court Law Library

NEW YORK

Albany, New York State Library
Brooklyn, Polytechnic Institute of Brooklyn
Brooklyn, Pratt Institute
Brooklyn, Public Library
Buffalo, Buffalo & Erie Co. Public Library
Buffalo, Lockwood Memorial Library, State Univ. of New York
Elmira, Elmira College
Farmingdale, Agricultural & Technical Institute, State University Library
Greenvale, C. W. Post College
Ithaca, Cornell University
Jamaica, Queens Borough Public Library
Jamaica, St. Johns University
New York, Astor Branch Public Library
New York, City College
New York, Columbia University
New York, Lenox Branch Public Library
New York, N.Y. Law Institute
Potsdam, Clarkson College of Technology
Rochester, Public Library
Rochester, U. of Rochester
St. Bonaventure, St. Bonaventure College
Stony Brook, State University of New York
Syracuse, Syracuse University
Troy, Public Library
Utica, Public Library
Yonkers, Public Library

NORTH CAROLINA

Chapel Hill, University of N.C.
Charlotte, Charlotte College
Charlotte, Public Library of Charlotte and Mecklenburg County
Durham, Duke University
Greensboro, Agricultural & Technical College
Greensboro, The Walter Clinton Jackson Library, University of N.C.
Raleigh, D. H. Hill Library, North Carolina State Coll.
Raleigh, N. Carolina State Library
Winston-Salem, Public Library

NORTH DAKOTA

Fargo, N. Dakota State U. of Agriculture & Appl. Sc.
Grand Forks, U. of North Dakota

OHIO

Akron, Public Library
Alliance, Mt. Union College
Athens, Ohio University
Bowling Green, Bowling Green State U.
Cincinnati, Public Library
Cleveland, Public Library
Columbus, Ohio State Library
Columbus, Ohio State University
Columbus, Public Library
Dayton, Public Library
Hiram, Hiram College
Marietta, Marietta College
Springfield, Warder Public Library
Toledo, Public Library
Toledo, University of Toledo
Youngstown, Public Library

OKLAHOMA

Enid, Public Library
Norman, U. of Oklahoma
Oklahoma City, Oklahoma State Library
Stillwater, Oklahoma State U.
Tahlequah, Northeastern State Teachers College
Tulsa, Tulsa City-Council Central Library
Tulsa, U. of Tulsa

OREGON

Corvallis, Oregon State U.
Eugene, U. of Oregon
Portland, Library Association of Portland
Salem, Oregon State Library

PENNSYLVANIA

Bethlehem, Lehigh University
Bradford, Carnegie Public Library
Erie, Public Library
Greenville, Thiel College
Harrisburg, Pennsylvania State Library
Hazleton, Public Library
Lancaster, Franklin and Marshall College
Philadelphia, Free Library of Philadelphia
Pittsburgh, Allegheny Regional Branch Library
Pittsburgh, Bureau of Mines, Pittsburgh Coal Research Center
Pittsburgh, Carnegie Library of Pittsburgh
Pittsburgh, University of Pittsburgh
Reading, Public Library
Scranton, Public Library
University Park, The Pennsylvania State U.
Villanova, Villanova University
Warren, Warren Library Association
Wilkes-Barre, King's College
Williamsport, James V. Brown Library

PUERTO RICO

Mayaguez, College of Agriculture
Rio Piedras, University of Puerto Rico General Library

RHODE ISLAND

Kingston, U. of Rhode Island
Providence, Public Library

SOUTH CAROLINA

Clemson, Clemson College
Columbia, U. of South Carolina McKissick Memorial Library

SOUTH DAKOTA

Brookings, Lincoln Memorial Library, South Dakota State University
Rapid City, Public Library
Vermillion, U. of South Dakota

TENNESSEE

Chattanooga, Public Library
Jefferson City, Maples Library, Carson-Newman College
Johnson City, East Tennessee State University

TENNESSEE—Continued

Knoxville, U. of Tennessee
Memphis, Cossitt Reference Library
Nashville, Joint University Libraries
Nashville, Public Library
Nashville, Tennessee State Library and Archives

TEXAS

Abilene, Hardin Simmons U.
Austin, Texas State Library
Austin, U. of Texas
Beaumont, Lamar State College of Technology
College Station, Texas A. & M. University
Dallas, Public Library
Dallas, Southern Methodist U.
Denton, North Texas State U.
Edinburg, Pan American College
El Paso, Public Library
Fort Worth, Public Library
Fort Worth, Texas Christian U., Mary Couts Burnett Library
Galveston, Rosenberg Library
Houston, Public Library
Kingsville, Texas College of Arts & Industries
Longview, Nicholson Memorial Library
Lubbock, Texas Technological College
San Antonio, Public Library
San Antonio, St. Mary's University
San Antonio, Trinity University
San Marcos, Southwest Texas State College
Waco, Baylor University
Wichita Falls, Midwestern University

UTAH

Logan, Utah State U. of Agriculture & Applied Science
Provo, Brigham Young U.
Salt Lake City, U. of Utah

VERMONT

Northfield, Norwich University

VIRGINIA

Blacksburg, Virginia Polytechnic Institute
Emory, Emory and Henry College
Norfolk, Public Library
Richmond, Virginia State Library
Roanoke, Public Library
University, University of Virginia

WASHINGTON

Ellensburg, Central Washington State College
Olympia, Washington State Library
Pullman, Washington State U.
Seattle, Public Library
Seattle, U. of Washington
Spokane, Public Library
Tacoma, Public Library
Vancouver, Fort Vancouver Regional Library
Walla Walla, Whitman College

WEST VIRGINIA

Athens, Concord College Library
Huntington, Marshall University
Institute, West Virginia State College
Morgantown, West Virginia U.

WISCONSIN

Appleton, Lawrence College
Beloit, Beloit College Libraries
La Crosse, Public Library
Madison, State Historical Society
Madison, U. of Wisconsin
Milwaukee, Public Library
Oshkosh, Wisconsin State College
Racine, Public Library
Stevens Point, Wisconsin State College

WYOMING

Cheyenne, Wyoming State Library
Laramie, U. of Wyoming

SUMMARY OF THE NUMBER OF PATENTS ISSUED ANNUALLY, 1836–1964

Year	The number of the first patent issued in each calendar year [1]				The number of patents issued in each calendar year [2]			
	Invention	Reissue	Design	Plant	Invention	Reissue	Design	Plant
1836	1	([3])	----------	---------	103	6	----------	---------
1837	110	([3])	----------	---------	426	10	----------	---------
1838	546	1	----------	---------	514	6	----------	---------
1839	1, 106	7	----------	---------	404	13	----------	---------
1840	1, 465	20	----------	---------	458	10	----------	---------
1841	1, 923	30	----------	---------	490	6	----------	---------
1842	2, 413	36	----------	---------	488	13	1	---------
1843	2, 901	49	1	---------	493	11	14	---------
1844	3, 395	60	15	---------	478	7	12	---------
1845	3, 873	67	27	---------	473	11	17	---------
1846	4, 348	78	44	---------	566	13	59	---------
1847	4, 914	91	103	---------	495	14	60	---------
1848	5, 409	105	163	---------	583	23	46	---------
1849	5, 993	128	209	---------	984	30	49	---------
1850	6, 981	158	258	---------	883	26	83	---------
1851	7, 865	184	341	---------	752	25	90	---------
1852	8, 622	209	431	---------	885	20	109	---------
1853	9, 512	229	540	---------	844	29	86	---------
1854	10, 358	258	626	---------	1, 755	28	57	---------
1855	12, 117	286	683	---------	1, 881	51	70	---------
1856	14, 009	337	753	---------	2, 302	83	107	---------
1857	16, 324	420	860	---------	2, 674	97	113	---------
1858	19, 010	517	973	---------	3, 455	126	102	---------
1859	22, 477	643	1, 075	---------	4, 160	231	107	---------
1860	26, 642	874	1, 183	---------	4, 357	232	183	---------
1861	31, 005	1, 106	1, 366	---------	3, 020	147	142	---------
1862	34, 045	1, 253	1, 508	---------	3, 214	116	195	---------
1863	37, 266	1, 369	1, 703	---------	3, 773	227	176	---------
1864	41, 047	1, 596	1, 879	---------	4, 630	248	139	---------
1865	45, 685	1, 844	2, 018	---------	6, 088	296	221	---------
1866	51, 784	2, 140	2, 239	---------	8, 863	290	294	---------
1867	60, 658	2, 430	2, 533	---------	12, 277	400	325	---------
1868	72, 959	2, 830	2, 858	---------	12, 526	420	445	---------
1869	85, 503	3, 250	3, 304	---------	12, 931	534	506	---------
1870	98, 460	3, 784	3, 810	---------	12, 137	439	737	---------
1871	110, 617	4, 223	4, 547	---------	11, 659	464	903	---------
1872	122, 304	4, 687	5, 452	---------	12, 180	529	884	---------
1873	134, 504	5, 216	6, 336	---------	11, 616	501	747	---------
1874	146, 120	5, 717	7, 083	---------	12, 230	483	886	---------
1875	158, 350	6, 200	7, 969	---------	13, 291	631	915	---------
1876	171, 641	6, 831	8, 884	---------	14, 169	621	802	---------
1877	185, 813	7, 452	9, 686	---------	12, 920	568	699	---------
1878	198, 733	8, 020	10, 385	---------	12, 345	509	590	---------
1879	211, 078	8, 529	10, 975	---------	12, 125	488	591	---------
1880	223, 211	9, 017	11, 567	---------	12, 903	506	514	---------
1881	236, 137	9, 523	12, 082	---------	15, 500	471	565	---------
1882	251, 685	9, 994	12, 647	---------	18, 091	271	858	---------
1883	269, 820	10, 265	13, 508	---------	21, 162	167	1, 017	---------
1884	291, 016	10, 432	14, 528	---------	19, 118	116	1, 150	---------
1885	310, 163	10, 548	15, 678	---------	23, 285	129	769	---------
1886	333, 494	10, 677	16, 451	---------	21, 767	116	594	---------
1887	355, 291	10, 793	17, 046	---------	20, 403	99	948	---------
1888	375, 720	10, 892	17, 995	---------	19, 551	86	832	---------
1889	395, 305	10, 978	18, 830	---------	23, 324	75	723	---------

See footnotes at end of table.

SUMMARY OF THE NUMBER OF PATENTS ISSUED ANNUALLY, 1836–1964—Continued

Year	The number of the first patent issued in each calendar year [1]				The number of patents issued in each calendar year [2]			
	Invention	Reissue	Design	Plant	Invention	Reissue	Design	Plant
1890	418, 665	11, 053	19, 553	----------	25, 313	84	886	--------
1891	443, 987	11, 137	20, 439	----------	22, 312	80	835	--------
1892	466, 315	11, 217	21, 275	----------	22, 647	81	816	--------
1893	488, 976	11, 298	22, 092	----------	22, 750	99	899	--------
1894	511, 744	11, 397	22, 994	----------	19, 855	64	927	--------
1895	531, 619	11, 461	23, 922	----------	20, 856	59	1, 108	--------
1896	552, 502	11, 520	25, 037	----------	21, 822	61	1, 441	--------
1897	574, 369	11, 581	26, 482	----------	22, 067	65	1, 620	--------
1898	596, 467	11, 646	28, 113	----------	20, 377	60	1, 799	--------
1899	616, 871	11, 706	29, 916	----------	23, 278	92	2, 137	--------
1900	640, 167	11, 798	32, 055	----------	24, 644	81	1, 754	--------
1901	664, 827	11, 879	33, 813	----------	25, 546	81	1, 729	--------
1902	690, 385	11, 960	35, 547	----------	27, 119	110	639	--------
1903	717, 521	12, 070	36, 187	----------	31, 029	117	536	--------
1904	748, 567	12, 189	36, 723	----------	30, 258	110	553	--------
1905	778, 834	12, 299	37, 280	----------	29, 775	129	486	--------
1906	808, 618	12, 428	37, 766	----------	31, 170	159	620	--------
1907	839, 799	12, 587	38, 391	----------	35, 859	151	589	--------
1908	875, 679	12, 738	38, 980	----------	32, 735	168	755	--------
1909	908, 436	12, 906	39, 737	----------	36, 561	160	679	--------
1910	945, 010	13, 066	40, 424	----------	35, 141	123	636	--------
1911	980, 178	13, 189	41, 063	----------	32, 856	157	1, 004	--------
1912	1, 013, 095	13, 346	42, 073	----------	36, 198	158	1, 341	--------
1913	1, 049, 326	13, 504	43, 415	----------	33, 917	164	1, 677	--------
1914	1, 083, 267	13, 668	45, 098	----------	39, 892	190	1, 711	--------
1915	1, 123, 212	13, 858	46, 813	----------	43, 118	182	1, 538	--------
1916	1, 166, 419	14, 040	48, 358	----------	43, 892	198	1, 745	--------
1917	1, 210, 389	14, 238	50, 117	----------	40, 935	179	1, 505	--------
1918	1, 251, 458	14, 417	51, 629	----------	38, 452	165	1, 206	--------
1919	1, 290, 027	14, 582	52, 836	----------	36, 797	203	1, 521	--------
1920	1, 326, 899	14, 785	54, 359	----------	37, 060	233	2, 481	--------
1921	1, 364, 063	15, 018	56, 844	----------	37, 798	239	3, 265	--------
1922	1, 401, 948	15, 257	60, 121	----------	38, 369	256	1, 609	--------
1923	1, 440, 362	15, 513	61, 748	----------	38, 616	226	1, 927	--------
1924	1, 478, 996	15, 739	63, 675	----------	42, 574	235	2, 670	--------
1925	1, 521, 590	15, 974	66, 346	----------	46, 432	266	2, 819	--------
1926	1, 568, 040	16, 240	69, 170	----------	44, 733	275	2, 597	--------
1927	1, 612, 700	16, 515	71, 772	----------	41, 717	326	2, 387	--------
1928	1, 654, 521	16, 841	74, 159	----------	42, 357	335	3, 182	--------
1929	1, 696, 897	17, 176	77, 347	----------	45, 267	374	2, 905	--------
1930	1, 742, 181	17, 550	80, 254	----------	45, 226	367	2, 710	--------
1931	1, 787, 424	17, 917	82, 966	1	51, 756	395	2, 935	5
1932	1, 839, 190	18, 312	85, 903	6	53, 458	393	2, 942	46
1933	1, 892, 663	18, 705	88, 847	52	48, 774	333	2, 411	33
1934	1, 941, 449	19, 038	91, 258	85	44, 420	371	2, 919	32
1935	1, 985, 878	19, 409	94, 179	117	40, 618	395	3, 864	45
1936	2, 026, 516	19, 804	98, 045	162	39, 782	422	4, 556	49
1937	2, 066, 309	20, 226	102, 601	211	37, 683	384	5, 136	55
1938	2, 104, 004	20, 610	107, 738	266	38, 061	349	5, 026	41
1939	2, 142, 080	20, 959	112, 765	307	43, 073	352	5, 592	45
1940	2, 185, 170	21, 311	118, 358	352	42, 238	372	6, 145	85
1941	2, 227, 418	21, 683	124, 503	437	41, 109	309	6, 486	62
1942	2, 268, 540	21, 992	130, 989	499	38, 449	250	3, 728	65
1943	2, 307, 007	22, 242	134, 717	564	31, 054	173	2, 228	47
1944	2, 338, 081	22, 415	136, 946	611	28, 053	170	2, 914	38
1945	2, 366, 154	22, 585	139, 862	649	25, 695	121	3, 524	17
1946	2, 391, 856	22, 706	143, 386	666	21, 803	121	2, 778	56
1947	2, 413, 675	22, 827	146, 165	722	20, 139	130	2, 102	52
1948	2, 433, 824	22, 957	148, 267	774	23, 963	111	3, 968	44
1949	2, 457, 797	23, 068	152, 235	818	35, 131	118	4, 450	93

See footnotes at end of table.

SUMMARY OF THE NUMBER OF PATENTS ISSUED ANNUALLY, 1836–1964—Continued

Year	The number of the first patent issued in each calendar year [1]				The number of patents issued in each calendar year [2]			
	Invention	Reissue	Design	Plant	Invention	Reissue	Design	Plant
1950	2, 492, 944	23, 186	156, 686	911	43, 040	129	4, 718	89
1951	2, 536, 016	23, 315	161, 404	1, 001	44, 326	134	4, 163	58
1952	2, 580, 379	23, 449	165, 568	1, 059	43, 616	163	2, 959	101
1953	2, 624, 046	23, 612	168, 527	1, 160	40, 468	151	2, 713	78
1954	2, 664, 562	23, 763	171, 241	1, 238	33, 809	155	2, 536	101
1955	2, 698, 434	23, 918	173, 777	1, 339	30, 432	187	2, 713	103
1956	2, 728, 913	24, 105	176, 490	1, 442	46, 817	158	2, 977	101
1957	2, 775, 762	24, 263	179, 467	1, 543	42, 744	150	2, 362	129
1958	2, 818, 567	24, 413	181, 829	1, 672	48, 330	170	2, 374	120
1959	2, 866, 973	24, 584	184, 204	1, 792	52, 408	177	2, 768	101
1960	2, 919, 443	24, 761	186, 973	1, 893	47, 170	157	2, 543	116
1961	2, 966, 681	24, 918	189, 516	2, 009	48, 368	189	2, 487	108
1962	3, 015, 103	25, 107	192, 004	2, 117	55, 691	202	2, 300	91
1963	3, 070, 801	25, 309	194, 304	2, 208	45, 686	198	2, 695	129
1964	3, 116, 487	25, 507	197, 269	2, 337	47, 378	200	2, 686	128
1965	3, 163, 865	25, 707	199. 955	2, 465				

[1] The patent numbering system began with a patent issued on July 13, 1836 under the Patent Act adopted July 4, 1836. Up to this time, a total of 9,957 patents had been issued.

[2] The number of patents issued during a year may be fewer than the number derived by subtracting the number of the first patent issued in one year from the number of the first patent issued in the next year. Some numbers in the series may not be used. This results when an application scheduled to be patented and to which a patent number is assigned is withdrawn for some reason at a time when it is too late to reassign that number.

[3] Not separately numbered until 1838.

LIST OF PATENT, DESIGN, PLANT PATENT, AND REISSUE NUMBERS APPEARING IN THE INDIVIDUAL ISSUES OF THE OFFICIAL GAZETTE FOR 1964

Issue of	Vol.	No.	First Number in Issue			
			Patents	Designs	Plant Patents	Reissues
Jan. 7	798	1	3, 116, 487	197, 269	2, 337	25, 507
Jan. 14		2	3, 117, 321	197, 326	2, 340	25, 512
Jan. 21		3	3, 118, 146	197, 371	2, 344	25, 514
Jan. 28		4	3, 119, 112	197, 397	None	25, 516
Feb. 4	799	1	3, 120, 002	197, 425	2, 350	25, 518
Feb. 11		2	3, 120, 664	197, 456	2, 360	25, 520
Feb. 18		3	3, 121, 233	197, 502	2, 365	25, 522
Feb. 25		4	3, 121, 875	197, 550	2, 367	25, 523
Mar. 3	800	1	3, 122, 749	197, 590	2, 368	25, 526
Mar. 10		2	3, 123, 830	197, 636	2, 373	25, 531
Mar. 17		3	3, 124, 805	197, 691	2, 376	25, 537
Mar. 24		4	3, 125, 761	197, 758	2, 381	25, 539
Mar. 31		5	3, 126, 549	197, 835	2, 388	25, 543
Apr. 7	801	1	3, 127, 614	197, 879	None	25, 547
Apr. 14		2	3, 128, 468	197, 944	2, 389	25, 552
Apr. 21		3	3, 129, 429	198, 014	2, 391	25, 556
Apr. 28		4	3, 130, 413	198, 071	2, 393	25, 562
May 5	802	1	3, 131, 397	198, 119	2, 399	25, 567
May 12		2	3, 132, 343	198, 154	2, 400	25, 572
May 19		3	3, 133, 287	198, 198	2, 404	25, 578
May 26		4	3, 134, 105	198, 254	2, 405	25, 583
June 2	803	1	3, 134, 981	198, 305	2, 407	25, 586
June 9		2	3, 135, 961	198, 359	2, 410	25, 590
June 16		3	3, 137, 004	198, 429	2, 411	25, 597
June 23		4	3, 137, 858	198, 490	2, 412	25, 605
June 30		5	3, 138, 801	198, 521	2, 415	25, 606
July 7	804	1	3, 139, 622	198, 560	2, 416	25, 611
July 14		2	3, 140, 492	198, 616	2, 422	25, 616
July 21		3	3, 141, 171	198, 663	2, 427	25, 620
July 28		4	3, 142, 066	198, 740	2, 428	25, 622
Aug. 4	805	1	3, 142, 841	198, 776	2, 431	25, 627
Aug. 11		2	3, 143, 739	198, 831	2, 433	None
Aug. 18		3	3, 144, 653	198, 896	2, 437	25, 631
Aug. 25		4	3, 145, 387	198, 968	2, 439	25, 633
Sept. 1	806	1	3, 146, 459	199, 020	None	25, 634
Sept. 8		2	3, 147, 484	199, 047	2, 444	25, 637
Sept. 15		3	3, 148, 373	199, 114	2, 445	25, 640
Sept. 22		4	3, 149, 339	199, 174	2, 446	25, 643
Sept. 29		5	3, 150, 378	199, 231	2, 448	25, 648
Oct. 6	807	1	3, 151, 329	199, 298	None	25, 650
Oct. 13		2	3, 152, 334	199, 349	2, 449	25, 656
Oct. 20		3	3, 153, 242	199, 387	2, 450	25, 664
Oct. 27		4	3, 153, 790	199, 427	None	25, 667
Nov. 3	808	1	3, 154, 787	199, 483	None	25, 673
Nov. 10		2	3, 155, 980	199, 514	2, 451	25, 676
Nov. 17		3	3, 156, 920	199, 557	2, 452	25, 685
Nov. 24		4	3, 157, 884	199, 611	2, 454	25, 689
Dec. 1	809	1	3, 158, 867	199, 661	2, 455	25, 691
Dec. 8		2	3, 159, 843	199, 725	None	25, 695
Dec. 15		3	3, 160, 890	199, 776	2, 462	25, 697
Dec. 22		4	3, 161, 886	199, 834	None	25, 701
Dec. 29		5	3, 162, 861	199, 891	None	25, 705
Last number of 1964			3, 163, 864	199, 954	2, 464	25, 706

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